Summary of Changes

Publication 52, *Hazardous, Restricted, and Perishable Mail*

Publication 52, *Hazardous, Restricted, and Perishable Mail,* has been updated, effective December 2012, with the following changes:

This chapter, subchapter, part, appendix, or section	titled	was	in <i>Postal Bulletin</i> issue number	with an issue date of
Chapter 3, Haz	ardous Materials			
346.212	Division 6.2, Infectious Substances	revised to update mail service to use when a Category B infectious substance is permitted in international mail.	N/A	N/A
349.21	Nonmailable Class 9 Materials	revised to update the mailing standards.	22352	12-13-12
Chapter 4, Res	tricted Matter			
443.1	General	revised to update DMM references.	N/A	N/A
452	Mailability	revised to update DMM references.	N/A	N/A
Chapter 6, International Mail				
622.2	Biological Substances, Division 6.2	revised to update the type of mail service to use.	N/A	N/A
622.5	Lithium and Lithium-lon Cells and Batteries — General	revised to update new standards when mailing primary and secondary lithium-ion cells or lithium batteries.	22352	12-13-12

This chapter, subchapter, part, appendix, or section	titled	was	in Postal Bulletin issue number	with an issue date of	
636	Other Restricted Matter	revised to update DMM reference.	N/A	N/A	
Appendix A, Ha	azardous Materials Table: P	ostal Service Mailability Guide			
Appendix A Hazardous Materials Table: Postal Service Mailability Guide	- Lithium-ion batteries contained in equipment - Lithium metal batteries contained in equipment	revised to add an additional reference.	22352	12-13-12	
Appendix C, USPS Packaging Instructions for Mailable Hazardous Materials					
Appendix C USPS Packaging Instructions for Mailable	USPS Packaging Instruction 6C	revised to update the type of service to use for international mail.	N/A	N/A	
Hazardous Materials	USPS Packaging Instruction 6F	revised to update the type of mail service to use for international mail.	N/A	N/A	
	USPS Packaging Instruction 9D	revised to update the standards.	22352	12-13-12	



Hazardous, Restricted, and Perishable Mail

Publication 52 De

December 2012 Transmittal Letter

A. Purpose. Publication 52, Hazardous, Restricted, and Perishable Mail, provides important information to help mailers determine what may be mailed and how certain items must be packaged to keep the mail safe. It also provides guidance to Postal Service™ employees accepting this mail.

We publish the standards for hazardous, restricted, and perishable mail in *Mailing Standards of the United States Postal Service*, Domestic Mail Manual (DMM®) section 601, "Mailability." The DMM contains all of our official prices and standards for domestic mail, and it governs all other postal information. The DMM is available on Postal Explorer® at http://pe.usps.com.

Customers may also consult their local postmaster or manager of business mail entry for additional information about hazardous materials in the mail.

- **B. Effective Date.** This edition is effective December 2012. All previous issues of Publication 52 are obsolete.
- C. Availability.

Public: The public can access Publication 52 in PDF and HTML formats on Postal Explorer at http://pe.usps.com.

Postal Service: Postal Service employees can access Publication 52 in PDF and HTML formats on the USPS Web site.

- D. How to Use This Book. An introduction is located at the beginning of the book. It explains the purpose and scope of the book, as well as the need to protect Postal Service employees and customers from potentially dangerous materials in the mail. In the appendices, we have included a hazardous materials table, packaging instructions for mailable materials, and a glossary of terms.
- E. Comments. Contact your local Post Office™, business mail entry office, or the Pricing and Classification Service Center (PCSC) with comments or questions about our mailing standards (see DMM 608.8.4 for addresses and telephone numbers of business mail entry offices and the PCSC).

Maura Robinson Vice President Pricing

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1 Introduction

11 Purpose

111 General

The purpose of this publication is to provide supplemental information and guidance when using the mailing standards in *Mailing Standards of the United States Post Office*, Domestic Mail Manual (DMM®). The primary rules that apply to the mailing of hazardous materials, restricted matter, and perishable matter and that have precedence over all other postal information are found in DMM 601.8–11.

112 **Use**

This publication is designed for use by Postal Service personnel in business mail entry and retail units, marketing, and other functional areas that are involved with providing mailability information to Postal Service customers.

Follow the mailing standards in the DMM, along with the additional guidelines contained in this publication, when deciding whether and under what conditions hazardous materials, restricted matter, and perishable matter are permitted to be mailed.

The content of this publication is based on DMM standards and regulations of federal agencies in effect at the time of publication. Future changes to the DMM or federal regulations may supplement, amend, or supersede the content of this publication.

113 Other Reference Sources

No single guide could provide all the details necessary for the safe acceptance and handling of every item that is classified as hazardous material, restricted matter, or perishable matter. This publication provides general guidelines, along with specific mailability requirements, where possible, for those categories of harmful materials that present significant danger or are frequently presented for mailing.

In writing this publication, the following sources were used:

- Title 18 of the United States Code (U.S.C.) 1716 (18 U.S.C. 1716).
- 39 U.S.C. 3001.
- DMM 601.8–11.
- Mailing Standards of the United States Post Office, International Mail Manual (IMM®) 135—138.
- Title 49 Code of Federal Regulations (49 CFR).

- Postal Operations Manual (POM).
- Administrative Support Manual (ASM).

Where appropriate, the names and addresses of agencies where more detailed information can be obtained are provided in this publication.

Appendix F lists Postal Service publications and reference materials and other publications.

12 Scope

121 General

The scope of this publication extends to all articles and materials that are nonmailable because they may harm people or property or that have mailing restrictions imposed upon them by the regulations of other governmental agencies (see DMM 601.8).

Under 18 U.S.C. 1716, all matter that is outwardly or of its own force dangerous or injurious to life, health, or property is nonmailable. The knowing deposit of such matter in the mail is a crime punishable by fine, imprisonment, or other penalty. However, certain hazardous materials and otherwise restricted and perishable matter may be mailed under the conditions permitted in DMM 601.8–11 and this publication.

122 Hazardous, Restricted, and Perishable

The following are examples of hazardous materials, restricted matter, and perishable matter. These are not complete lists, but they provide an idea of the types of articles included in each category.

- a. Hazardous materials (DMM 601.10) include:
 - (1) Corrosives.
 - (2) Explosives.
 - (3) Flammable liquids and solids, combustible liquids.
 - (4) Gases.
 - (5) Infectious substances, etiologic agents, clinical specimens, biological products, sharps, other used medical devices.
 - (6) Miscellaneous hazardous materials (e.g., dry ice, magnetized materials).
 - (7) ORM-D materials.
 - (8) Oxidizers, organic peroxides.
 - (9) Radioactive materials.
 - (10) Toxic substances (poisons).
- b. Restricted matter (DMM 601.11) includes:
 - (1) Abortive and contraceptive devices.
 - (2) Battery-powered devices.
 - (3) Building construction materials.
 - (4) Controlled substances and drug paraphernalia.

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- (5) Firearms.
- (6) Intoxicating liquors.
- (7) Liquids and powders.
- (8) Matter emitting obnoxious odors.
- (9) Motor vehicle master keys.
- (10) Nonhazardous liquids and powders.
- (11) Sharp objects (knives, switchblades, stilettos).
- (12) Odd-shaped items in letter-size envelopes.
- c. Perishable matter (DMM 601.9) includes:
 - (1) Dead animals or parts of animals.
 - (2) Eggs.
 - (3) Live animals.
 - (4) Meat and meat products.
 - (5) Plants and plant products.

13 Additional Information

Although the Postal Service makes every effort to inform its customers of the mailability of particular harmful matter via the DMM standards and the information in this and other publications, it is the responsibility of the mailer to fully meet all requirements prior to mailing. See 212 and DMM 601.8. for more complete information on the responsibilities of mailers.

The authority of Postal Service personnel to decide whether particular articles or substances presented for mailing are nonmailable is stated in 213 and DMM 601.8.

14 Safety

The handling and transport of hazardous materials, restricted matter, and perishable matter involves added levels of risk. That risk can become even greater if a nonmailable material is mailed or if the packaging of a mailable material is not adequate to prevent damage or spillage during normal handling.

Under no circumstances may any nonmailable hazardous material, restricted matter, or perishable matter be deposited for mailing. Mailable items must be packaged and labeled as required in the applicable DMM standards and the guidelines in this publication.

The Postal Service's primary purpose in requiring proper packaging, identification, and deposit of mailable hazardous materials, restricted matter, or perishable matter is to ensure the safety of our employees and the general public who may come into contact with these mailpieces. These requirements also are intended to ensure the safety of Postal Service equipment and facilities.

December 2012

15 Protecting Personnel

All reasonable and necessary steps must be taken to protect Postal Service personnel and equipment from the effects of potentially dangerous or injurious materials or substances found in the mail, as stated in ASM 223.4.

2 General Guidelines

21 Mailability

211 General

Under 18 U.S.C. 1716, all matter that is outwardly or of its own force dangerous or injurious to life, health, or property is nonmailable. The knowing deposit of such matter in the mail is a crime punishable by fine, imprisonment, and/or other penalty.

For reasons of safety, most hazardous materials are nonmailable. However, some hazardous materials and otherwise restricted matter, or perishable matter are permitted to be mailed when the requirements in

DMM 601.8-11 and the supplemental criteria in this publication are fully met.

DMM 601.10 and chapter $\underline{3}$, Appendix \underline{A} , and Appendix \underline{C} of this publication provide detailed information about hazardous materials that are permitted to be mailed and the conditions that apply.

DMM 601.11 and 601.9 and chapters $\underline{4}$ and $\underline{5}$ of this publication provide information about restricted matter and perishable matter that either is nonmailable or that may be mailable under specified conditions, as applicable.

Chapter 6 specifies the mailing conditions that apply to hazardous materials, restricted matter, and perishable matter in international mail, including hazardous materials for delivery to overseas military post office (APO/FPO) addresses.

Chapter $\underline{7}$ contains information regarding mailability of hazardous materials, restricted matter, and perishable matter in domestic mail via air transportation.

212 Mailer Responsibility

Mailers must comply with applicable Postal Service laws and regulations governing mailability and preparation for mailing, as well as nonpostal laws and regulations on the shipment of particular matter (see DMM 601.8).

The Postal Service disseminates information about mailing standards by publishing the DMM and IMM and by providing this and other publications that give additional guidance to mailers.

Mailers need to be aware of current or new regulations adopted by the Postal Service and other governmental agencies.

213 Authority

Under DMM 601.8, postmasters have the authority to determine the mailability of restricted articles and substances. A postmaster who has determined an article or substance to be nonmailable has the authority to refuse the item from mailing. Postmasters may consult with the Pricing and Classification Service Center (PCSC) in making these determinations. See DMM 608.8.4 for the PCSC address and telephone number.

214 Appeals

The rights of mailers to seek review of adverse mailability decisions involving restricted articles and substances is stated in DMM 601.8.

A mailer who receives an adverse decision from a postmaster may file a written appeal with the PCSC, which issues the final agency decision. When an initial ruling is issued by the PCSC, the mailer may appeal to the manager, Mailing Standards, USPS Headquarters, Washington, DC, who has the authority to render a final decision on the appeal. See DMM 608.8.1 for the Mailing Standards mailing address.

A mailer may file a written appeal of a final Postal Service agency decision with the USPS Recorder, Judicial Officer, under the rules of procedure in 39 CFR 953. See DMM 608.1.1 for the mailing address.

215 Requests for Rulings

215.1 General

Mailability decisions are based on Postal Service statutes and regulations in effect at the time the ruling is issued. Over time, some rulings may become obsolete or require modification to conform to changes in applicable laws and regulations. When rulings are issued, the requirements of other governmental agencies (e.g., U.S. Department of Transportation, Centers for Disease Control and Prevention) may be taken into consideration to the extent that they are consistent with Postal Service policy and authority.

Requests for rulings must contain specific items of critical information appropriate to the category of the material, as noted in 215.2 and 215.3 and DMM 601.10.6.

215.2 Hazardous Materials

Acceptability for mailing hazardous materials depends on many factors, such as the container fluid/vapor capacities, the ability of the complete mailpiece to contain the material, and the method of absorbing and containing the material in case of accidental leakage of the primary receptacle.

To determine mailability of a specific material, a mailer must submit a material safety data sheet (MSDS) (see Appendix \underline{D}) and the following information to the PCSC:

- Common and proper shipping name of the material, hazard class, and the assigned United Nations (UN) or North American (NA) identification number.
- b. Chemical composition by percentage of weight.

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- c. Flashpoint.
- d. Toxic properties.
- e. Irritant action when inhaled, swallowed, or with contact to skin or eyes.
- f. Special precautions necessary to permit handling without harm to USPS employees or damage to property or other mail.
- g. Explanation of warning labels and shipping papers required by local, state, or federal regulations.
- h. Description of the proposed packaging method, including the addressing, required markings, and documentation.
- i. Volume of material per mailpiece, proposed number of pieces to be mailed, class of mail, and post office(s) of mailing.

The hazards present with chemicals and other types of hazardous materials may not be readily apparent. Materials classified under one hazard class can present additional or subsidiary hazards more commonly associated with a different hazard class. For example, swimming pool chemicals may cause fires or release poisonous fumes or be corrosive or poisonous. Therefore, it is essential when determining mailability to correctly identify the material based on the mailer-supplied documentation (i.e., the MSDS and other information) and never to assume a general designation using unsubstantiated information.

215.3 Restricted Matter or Perishable Matter

To obtain a ruling on the mailability of restricted or perishable matter, a mailer should provide the mailing office with following:

- a. Detailed description of the restricted or perishable matter.
- b. Special precautions necessary to permit handling without harm to Postal Service employees or damage to property.
- c. Proposed method of packaging.
- d. Explanation of any local, state, or federal regulations that apply to shipping such matter.
- e. Quantity per mailpiece and per mailing, frequency of mailing, and post office(s) of mailing.

When information about restricted or perishable matter is insufficient to make a mailability determination, or when there is doubt about the mailability of a particular item, contact the PCSC.

216 Nonmailable Matter Found in the Mail

Specific items, such as firearms, switchblade knives, controlled substances, motor vehicle master keys, and explosive or incendiary devices, generally are prohibited for mailing under DMM 601.8–11. When these types of nonmailable items are found in the mailstream, they must be handled in accordance with POM 139.117.

Other materials found in the mail that are believed to be nonmailable must be treated under the applicable conditions in DMM 601.8, POM 139.117–118, ASM 223.4, and Management Instruction (MI) DM-601-05-1, *Hazardous Materials Acceptance and Handling*.

22 Marking Requirements

221 General

Hazardous materials and restricted or perishable matter, unless specifically excepted in <u>222</u>, must be clearly identified on the address side of the mailpiece, including the name and address of both the mailer and the addressee.

When required, the contents also must be clearly identified on the address side. The contents must be disclosed to be mailable. A mailability determination may be required based on the mailer's disclosure concerning the contents at the time of mailing.

Other markings required by the Postal Service or other federal regulatory agencies also must appear on the address side of any mailpiece containing hazardous material, restricted matter, or perishable matter. Required markings must be applied with a nonsoluble material or other material that cannot be rubbed off or smeared.

Mailers should ensure that their packages meet all applicable labeling and marking requirements to avoid rejection of the mailpiece by Postal Service acceptance personnel or air carriers.

222 Matter Excepted From Markings

If permitted to be mailed under DMM 601.11, the following materials are excepted from the requirements in <u>221</u> and must be mailed with no indication or identifying marking on the outside of the parcel:

- a. Controlled substances and drugs.
- b. Firearms.
- Motor vehicle master keys.
- d. Switchblade knives.

223 Hazardous Materials Warning Labels and Markings

Most mailable hazardous materials fall in the ORM-D (other regulated materials) category. ORM-D materials do not require Department of Transportation (DOT) diamond-shaped hazardous materials warning labels. Postal Service regulations do permit the mailing of a few hazardous materials that fall outside the ORM-D materials category. Chapter 3, Exhibit 325a and Exhibit 325b, and DMM 601.10 for more specific information on hazardous materials warning labels and marking requirements.

224 Tag 44 for Hazardous Materials

Category B infectious substances are the only type of hazardous materials permitted to be placed in a sack or tub. All mailpieces must be properly marked with the proper shipping name "Biological Substance, Category B" and "UN3373" inside a diamond marking as outlined in 346.32a. A sack or

General Guidelines 227

tub containing Category B infectious substances must have attached Tag 44, *Sack Contents Warning*. The tag must be removed when the Category B infectious substances are no longer in the sack or tub. See chapter 7 for more information.

225 Other Postal Service Labels and Tags

The Postal Service provides these labels and tags for affixing to the outside of mailpieces containing bees, live animals, or perishable matter:

- a. Label 27, Bee Ware!
- b. Label 28, Live Animals.
- c. Tag 9, Perishable Do Not Delay.
- d. Label 127, Surface Transportation Only.

226 Package Orientation Markings

Outer packaging that contains a primary receptacle (and secondary packaging, when required) of a liquid or other spillable material must be packed with the closure of the primary receptacle positioned upward.

The outer packaging must be plainly and legibly marked on two opposite sides with a package orientation marking consisting of two underlined arrows that point in the correct upright position.

Optionally, the two arrows may be enclosed in a rectangle. Specifications for package orientation markings are in 49 CFR 172.312. See Exhibit 226 for examples.

Exhibit 226

Package Orientation Markings





Note: Either design is acceptable.

227 Old Markings

Under 49 CFR 173.29, a container that previously held a hazardous material is considered the same as a full container of the material. As stated in DMM 601.5.1b, a container improperly identified by content is not acceptable for mailing. Some potentially hazardous, restricted, and prohibited matter is nonmailable by statute or regulation. Because of safety concerns and in compliance with laws governing the transportation of hazardous, restricted, and prohibited materials, as well as privacy statutes, the Postal Service must assume that all markings and labels on a package identify the actual content.

Reused packaging, boxes, and containers that bear inapplicable labels or markings associated with hazardous, prohibited, or restricted materials are prohibited in the mailstream, unless the labels or markings have been removed or completely obliterated. If the labels or markings can still be read or identified, they are not sufficiently obliterated. See Exhibit 227.

Exhibit 227 Reused Packaging





Incorrect Procedure

Correct Procedure

If labels or markings have not been sufficiently obliterated, the package must be handled as though it contains the indicated contents. Frequently, these types of packages must be handled as nonmailable hazardous materials and must be isolated and removed from the mailstream.

Examples of commonly reused boxes include cleaning supply boxes and liquor/wine/beer boxes. Some cleaning products are hazardous materials; although most alcoholic beverages are not hazardous materials, they are prohibited from mailing. Packages containing alcoholic beverages or with alcoholic beverage markings are prohibited in the mail.

Postal Service employees may not remove, cross out, or obliterate labels or markings, even if asked to do so by a mailer. Only the mailer or mailer's authorized representative may alter or obliterate the labels or markings.

228 Shipping Papers

Mailable hazardous materials eligible to be sent with Express Mail®, Priority Mail®, or First-Class Mail® service must be packaged, labeled, and appropriately documented for air transportation, as required by federal regulations and DMM 601.10.

Mailable hazardous materials sent via air transportation (except materials identified under <u>346.2</u> and DMM 601.10.17) must be accompanied with a shipper's declaration for dangerous goods completed in triplicate and signed by the mailer.

Air carriers may reject mailpieces that are not accompanied by the required shipping papers. See <u>326</u> and <u>Exhibit 326</u> and chapter <u>7</u> for more information.

23 Handling Hazardous Materials

A potentially dangerous situation exists whenever hazardous materials, restricted matter, or perishable matter is being moved from one place to another. Careless handling can result in serious injury to the general public and Postal Service personnel, damage to other mail and Postal Service equipment, and delays in processing and delivery of mail.

The Postal Operations Manual (POM) and MI DM-601-05-1, Hazardous Materials Acceptance and Handling, provide additional instructions for handling hazardous materials in the mail.

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24 Emergency Procedures

241 General Requirements

Incidents involving the release of hazardous materials, restricted matter, or perishable matter may cause death, injury, and damage to property. Such incidents can be avoided or minimized if appropriate preventive measures are taken or correct emergency procedures are followed.

MI EL-810-96-1, Response to Hazardous Materials Releases, and Handbook EL-812, Hazardous Materials and Spill Response, provide guidelines for responding to emergency situations. Postal Service employees involved in the flow of mailpieces containing harmful matter must follow these guidelines from the point of deposit to the point of delivery.

242 Hazard Duration

Frequently, the effects of exposure resulting from damage, spillage, or leakage of harmful matter are not obvious or readily apparent. For example, infectious substances, radioactive material, corrosives, and poisons can cause illness or injury that may become known to the victim gradually and long after the incident.

243 Precautions

During any spill or leak incident, or when damage is detected involving harmful items, Postal Service personnel must take every precaution to protect other personnel and property from visible and invisible effects of the material involved. These procedures are to be followed:

- a. Identify harmful properties of the material (based on the markings) and determine the precautions to be taken.
- b. Provide adequate personal protection to employees who must handle the materials.
- Contain and transport leaking containers for disposal.
- d. Clean and decontaminate facilities and machinery.

Refer to MI EL-810-96-1, Response to Hazardous Materials Releases, and Handbook EL-812, Hazardous Materials and Spill Response, for specific instructions.

244 Procedures

During any incident involving harmful matter where there is actual or suspected damage to a mailpiece or its contents, Postal Service personnel must follow the specific procedures in Handbook EL-812, *Hazardous Materials and Spill Response*. The following are general guidelines:

a. Isolate the damaged package immediately and restrict the area. If the
incident occurs in a facility or on the equipment of an air carrier,
immediately brief the carrier on the nature and quantity of the materials
released.

- b. Contact the supervisor or designated qualified employee, who can take prompt and appropriate measures to protect life and prevent injury, loss, or damage. They will determine whether it is an incidental spill that can be handled by the facility spill and leak team or an emergency spill that will require implementation of the emergency action plan. If mail sealed against inspection must be opened for this purpose, act in accordance with ASM 274.
- c. Remove any injured or contaminated person from the area with as little physical contact as possible:
 - Limit any first aid to what is absolutely necessary, until a qualified physician is present.
 - (2) Direct all personnel exposed to radioactive materials to wash all exposed body areas immediately with cold water and immediately report to a physician for an examination.
- d. If the spill is determined to be an emergency, contact the fire department, the police, a qualified physician, and/or the appropriate agencies equipped to handle specific situations.
- e. Avoid smoke, fumes, or dust. Segregate any clothing or tools used in fighting fires until they can be checked for contamination.
- f. Do not eat, smoke, or drink in the affected area.
- g. Do not place involved areas in service until the appropriate authorities have determined that the areas are free of all contamination.
- h. Notify the PCSC or Postal Service Inspection Service, as appropriate under POM 139.117–118 (see 216). A report must be made for any incident that includes damage to mail or property, or injury to personnel. PS Form 1770, Mail Piece Spill of Leak Incident Report, must be completed and forwarded in accordance with instructions on the form.
- Comply with procedures outlined in MI DM-601-05-1, Hazardous
 Materials Acceptance and Handling, for reporting hazardous materials
 incidents that occur while materials are being transported as mail
 aboard an aircraft.

245 Hazardous Chemical Emergencies

CHEMTREC (Chemical Transportation Emergency Center) is a service of the Chemical Manufacturers Association that provides immediate information and advice 24 hours a day, 7 days a week, for those at the scene of transportation emergencies involving chemicals.

Postal Service personnel are authorized to telephone CHEMTREC day or night, toll free, at 800-424-9300. For calls originating within the state of Virginia or outside the continental United States, telephone 703-527-3887. CHEMTREC usually can provide hazard guidance and information warnings when given only the name of the product and the nature of the problem. CHEMTREC also follows up by promptly contacting the shipper of the chemicals involved for more detailed assistance. CHEMTREC does not provide on-site emergency response.

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CHEMTREC may request the following information in an emergency call:

- Caller's name, title and organization, and callback number at scene. a.
- Description of incident and actions taken. b.
- Type and number of injuries/exposures. c.
- d. Material involved, including:
 - Name of the products(s), preferably a trade name.
 - (2)Shipper and point of destination.
 - Consignee and destination (delivery address).
- Type or description and number of containers/packages. e.
- f. Specific information you need right away (MSDSs, medical help, etc.)
- g. Size of or amount of release.
- Location, time, weather at the scene h.

246 Emergency Telephone Numbers

Following are telephone numbers for use during normal business hours (unless otherwise noted) for the indicated types of emergencies:

CENTERS FOR DISEASE CONTROL AND PREVENTION (CDC) (for etiologic agents and biohazard materials) 404-633-5313 CHEMICAL TRANSPORTATION EMERGENCY CENTER (CHEMTREC)

(for Chemical Spills - 24 hours a day, 7 days a week) 800-424-9300 (in continental United States; outside Virginia) 703-527-3887 (within Virginia or outside the continental United States)

CROPLIFE AMERICA

(for Herbicides, insecticides, Fungicides, and similar products) 202-296-1585

U.S. DEPARTMENT OF TRANSPORTATION (DOT) NATIONAL RESPONSE CENTER (for Chemical and Oil Spills)

202-267-2675 (within Washington DC)

800-424-8802 (outside Washington DC)

25 Basic Guidelines for Acceptance and Dispatch

Guidelines for Acceptance Personnel

Postal Service personnel may not open mail sealed against inspection except under the circumstances described in ASM 274. Accordingly, knowledge of the content of such mail may be obtained directly from the mailer (e.g., a mailer may ask questions about mailing requirements or mark the outside of the mailpiece to indicate the contents) or indirectly through leakage or other escape of the contents. Subject to the applicable restrictions, acceptance personnel must:

Determine the mailability of all hazardous materials, perishable matter, or otherwise restricted matter offered for mailing at a retail unit or

December 2012 13 business mail entry unit (BMEU). This process must include a thorough inspection of all sides of the mailpiece for evidence of hazardous materials (e.g., markings). At retail units, mailers must be asked the question: "Does this parcel contain anything fragile, liquid, perishable, or potentially hazardous?"

- b. If the contents are mailable, determine the specific quantity limitations, labeling, and packaging requirements that apply.
- c. Refuse to accept any material (as permitted in POM 139) that does not meet the applicable DMM requirements for mailing (see DMM 601.8) and refer the circumstances to your local postmaster or PCSC for a mailability ruling under 213 or 215, as appropriate.
- d. If the parcel containing a diagnostic (clinical) specimen is in a sack or tub, PS Tag 44 must be attached to ensure that the sack will be emptied at the processing point. Dispatch all mailable hazardous materials as stated in the POM and MI DM-601-05-1, Hazardous Materials Acceptance and Handling.

See chapter <u>7</u> for guidelines Postal Service acceptance personnel should follow when handling hazardous materials, restricted matter, or perishable matter to be transported by air. Additional information on the proper acceptance of hazardous materials can be found in MI DM-601-05-1, *Hazardous Materials Acceptance and Handling*.

252 Guidelines for Dispatch Personnel

The following guidelines for Postal Service dispatch personnel are general in nature. Specific dispatch procedures for Postal Service operational employees are in the MI DM-601-05-1, *Hazardous Materials Acceptance and Handling*, and the POM.

- a. Make sure that the hazardous material, restricted matter, or perishable matter is given proper handling to avoid damage or danger.
- b. Tender to the air carrier only those mailpieces that are properly packaged and marked. Before a shipment is tendered to a carrier, make sure that:
 - (1) A proper and strong packaging method is used.
 - (2) A secure method of package closure is used, and there is no visual evidence of leakage or damage. (If damage is detected, isolate the damaged mailpiece and notify the appropriate personnel in case of accident or incident and for proper spill response.)
 - (3) The outer packaging bears all required markings and/or labels.
 - (4) A properly completed shipping paper is attached to the outside of the mailpiece and to the dispatch document. The shipping paper must include the information detailed in <u>326</u> and <u>Exhibit 326</u>.
 - (5) If the mailpiece contains a material believed to be nonmailable, treat it in accordance with MI DM-601-05-1, Hazardous Materials Acceptance and Handling, and POM 139.117-118, as appropriate.

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See chapter <u>7</u> for more information regarding the air transportation of mailable hazardous materials, restricted matter, or perishable matter. Also see MI DM-601-05-1, *Hazardous Materials Acceptance and Handling, for* more information on the handling, processing, and dispatch of hazardous materials.

Hazardous, Restricted, and Perishable Mail

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3 Hazardous Materials

31 Definition

A hazardous material is any article or substance designated by the U.S. Department of Transportation as being capable of posing an unreasonable risk to health, safety, or property during transportation. In international commerce, hazardous materials are known as "dangerous goods." For definitions of other terms that relate to hazardous materials, see Appendix D.

32 General

321 U.S. Department of Transportation

The U.S. Department of Transportation (DOT) is the federal agency responsible for regulating the carriage of hazardous materials within the United States via any mode of transportation (e.g., highway, rail, air, water). The federal regulations of the DOT are codified in Title 49 *Code of Federal Regulations* (49 CFR), which contains the DOT's detailed specifications for packaging, marking, and labeling hazardous materials. Title 49 CFR also exempts or establishes other requirements for limited quantities and small quantities of hazardous materials.

322 Postal Service

The carriage of U.S. Mail by the Postal Service is regulated by Title 39 *Code of Federal Regulations* (39 CFR) and is not subject to the federal regulations in 49 CFR that apply to commercial carriers. Unlike commercial carriers, the Postal Service is subject to the restrictions in Title 18 *United States Code 1716* (18 U.S.C. 1716), which prohibits from mailing all matter that is outwardly or of its own force dangerous to life, health, or property (see 211). As a result, most hazardous materials are nonmailable.

Accordingly, for legal and safety reasons, although mailing standards for hazardous materials in DMM 601.10 and this publication closely adhere to 49 CFR, the standards also include many additional limitations and prohibitions and often are more restrictive than the requirements of other commercial carriers. For example, 49 CFR allows commercial shippers to send flammable materials by air, but the Postal Service prohibits the mailing of all flammable materials via air transportation.

Postal Service standards generally limit the mailing of hazardous materials to ORM-D materials as defined in <u>333</u>. However, the standards do permit the mailing of a small number of hazardous materials having a greater handling and transportation risk than ORM-D materials. This allowance is limited to the following:

- a. Toy propellant devices and safety fuses in Division 1.4S, as permitted in 341.22 and DMM 601.10.11.2.
- b. Toxic substances in Division 6.1 that have an LD50 for oral toxicity of greater than 5 mg/kg but less than 50 mg/kg, as permitted in 346.231 and DMM 601.10.16.
- c. Infectious substances (etiologic agents) and medical wastes in Division 6.2, as permitted in 346.23 and DMM 601.10.17.
- d. Radioactive materials in Class 7 that fall within the specific activity limits permitted in 347 and Exhibit 347.22.
- e. Dry ice and magnetized materials in Class 9, as permitted in 349 and DMM 601.10.20.

323 Mailer Responsibility

Full responsibility rests with the mailer to comply with all Postal Service and non-Postal Service laws and regulations in the mailing of hazardous material (DMM 601.10.5). Anyone who mails, or causes to be mailed, a nonmailable or improperly packaged hazardous material can be subject to legal penalties (i.e., fines and/or imprisonment), including but not limited to, those specified in 18 U.S.C. The transport of hazardous materials prior to entry as U.S. Mail and after receipt from the Postal Service is subject to DOT regulations.

324 Mailability Rulings

For information on how to request a mailability ruling for a specific hazardous material, see 215.2 and DMM 601.10.6.

325 DOT Hazardous Materials Warning Labels

In commerce, packages containing hazardous materials (except those qualifying as ORM-D material or a limited quantity shipment) must display the appropriate DOT diamond-shaped hazardous materials warning label. Any mailpiece bearing, or required under 49 CFR to bear, one of the warning labels shown in <u>Exhibit 325a</u> is prohibited from mailing. The warning labels shown in <u>Exhibit 325b</u> may appear only on mailpieces containing mailable hazardous materials that require use of the label under Postal Service requirements.

(The labels shown in the exhibits are not shown to size. DOT warning labels must meet the size and color requirements in 49 CFR 172.407 through 172.446.)

Hazardous Materials 325

Exhibit 325a

allowed under

Exhibit 325c)

ice and as allowed

under Exhibit 325c)

DOT Hazardous Materials Warning Labels: PROHIBITED IN THE MAIL



* Include appropriate compatibility group letter.

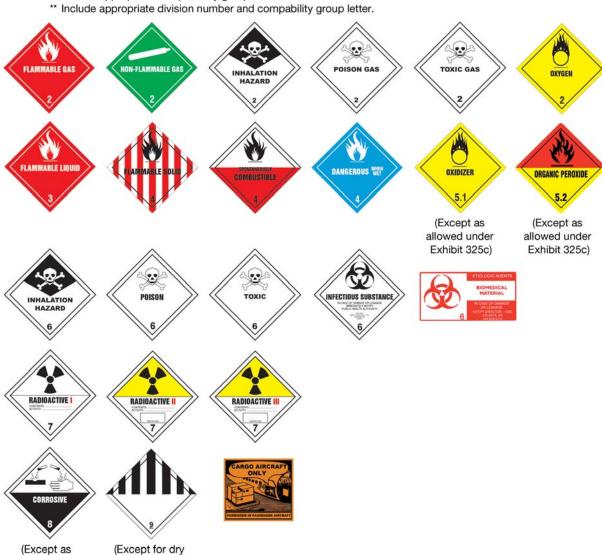


Exhibit 325b

DOT Hazardous Materials Warning Labels: PERMITTED ON MAILABLE HAZARDOUS MATERIALS

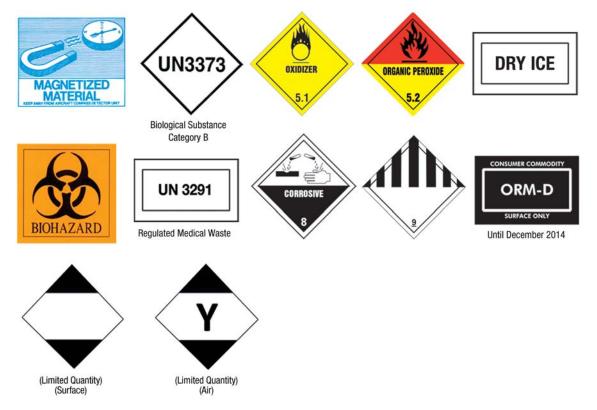


Exhibit 325c

DOT Hazardous Material Warning Labels: PERMITTED FOR MAILABLE LIMITED QUANTITIES ONLY



(Must only be used in conjunction with DOT limited quantity markings and only when permitted for the applicable hazard class. See 34, Mailability by Hazard Class.)

Hazardous Materials 326

326 Shipping Papers

A shipping paper is defined as a shipping order, bill of lading, waybill, manifest, or any other document used to identify a hazardous material being offered for transport. The requirements on how to properly prepare shipping papers are detailed in 49 CFR 172.200 through 172.204. The shipping paper must be affixed to the outside of the mailpiece. A plastic envelope or carrier can be used for this purpose. The following conditions also apply:

- a. Air Transportation. Most mailable hazardous materials (including ORM-D materials) must be accompanied by a shipper's declaration for dangerous goods (shipping paper). The document must be properly completed and signed in triplicate by the mailer. A sample form is shown in Exhibit 326. To determine which mailable hazardous materials require a shipping paper when sent via air transportation, refer to the appropriate sections in this chapter, the appropriate Packaging Instruction in Appendix C, and DMM 601.10.
- b. Surface Transportation. Certain mailable hazardous material other than an ORM-D material may require a properly prepared shipping paper. To determine which mailable hazardous materials require a shipping paper when sent via surface transportation, refer to the appropriate sections in this chapter, the appropriate Packaging Instruction in Appendix C, and DMM 601.10.

Neither DOT nor the Postal Service makes blank shipper's declaration forms available to shippers of hazardous materials. It is the responsibility of the shipper to obtain forms meeting the format specifications in 49 CFR from commercial printers, vendors, or internet retailers. The shipper is also responsible for properly completing the form prior to mailing.

Exhibit 326
Shipper's Declaration for Dangerous Goods (Sample Form)

Shipper			Air Waybi Page	II No. of	Pages			
				75-57	nce Number (optional)			
Consignee								
Two completed and signed copie be handed to the operator	es of this Declaration	n must	WARN			- 		
TRANSPORT DETAILS						l respects with		
This shipment is within the limitations prescribed for: (delete non-applicable)	Airport of Departure	9	Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties. This Declaration must not, in any circumstances, be					
PASSENGER CARGO AIRCRAFT ONLY	AIRCRAFT			completed and/or signed by a consolidator, a forwarder or an IATA cargo agent.				
Airport of Destination:					rive RADIOA			
NATURE AND QUANTITY OF D	ANGEROUS GOO	DS					·	
Dangerous G	oods Identification	n 	,	.				
Proper Shipping Name	Class or Division	UN or ID No.	Packing Group	Subsi- diary Risk	Quantity and	d Type of packing	Packing Inst.	Authorizatio
			<u> </u>				<u> </u>	<u> </u>
Additional Handling Information								
			24 hr. E	Emergency	Contact Tel. No			
						Name/Title of Sig	gnatory	
I hereby declare that the accurately described at	bove by the r				- unu ult	Place and Date		

Hazardous Materials 328

327 Transportation Requirements

327.1 General

transportation. Mailable hazardous materials eligible for air transportation must be sent as Express Mail, Priority Mail, or First-Class Mail, as permitted. Mailpieces must be prepared to meet all requirements that apply to air transportation. Mailpieces must be properly packaged and labeled within DMM requirements and the operator variations of the air carrier. When required, a shipper's declaration for dangerous goods must be affixed to the outside of the mailpiece. Refer to the *Technical Instructions for the Safe Transport of Dangerous Goods by Air* of the International Civil Aviation Organization (ICAO) for air carrier operator variations.

Note: Mailable hazardous materials that are prohibited from air transportation may not be sent at Express Mail, Priority Mail, or First-Class Mail rates.

b. Surface Transportation. All mailable hazardous materials eligible to be sent at Standard Mail rates must be prepared under the requirements that apply to surface transportation. A mailpiece containing mailable hazardous material with postage paid at a Standard Mail rate must not, under any circumstance, be transported on air transportation.

327.2 Air Transportation Prohibitions

The following types of hazardous materials are prohibited from transport via aircraft (i.e., at Express Mail, Priority Mail, or First-Class Mail rates) under any circumstances:

- a. Explosives other than Division 1.4S, small rocket motors, igniters, and safety fuse.
- Anything susceptible to damage or that can become harmful because
 of changes in temperature or atmospheric pressures unless protected
 against the effects of such changes.
- Magnetic material that has a field strength sufficient to cause a compass deviation at a distance of 7 feet or more from any point on the outer packaging.
- d. Flammable materials (gases, liquids, and solids).
- e. Radioactive materials.
- f. Hazardous materials excluded from air shipment by the regulations of 49 CFR 100-185, or by the applicable country or air carrier operator variations.

328 Postal Service Hazardous Materials Table

Appendix A, "Hazardous Materials Table: Postal Service Mailability Guide," contains a modified version of the DOT Hazardous Materials Table found in 49 CFR 172.101. Appendix A lists the hazardous materials from 49 CFR and identifies eligibility for mailing in the domestic mail via air and surface transportation. The table can be used to determine the mailability of a hazardous material if the proper shipping name of the material is known.

When only the UN number is known, Appendix B, "Numerical Listing of Proper Shipping Names by Identification (ID) Number," can be used to locate a proper shipping name for cross referencing back to Appendix A.

The mailability information in Appendix \underline{A} is based on DMM 601.10, the guidelines in this publication, and past Postal Service mailability rulings. The table does not include specific information for international mail because almost all hazardous materials are prohibited in international mail. See chapter $\underline{6}$ for the specific requirements that apply to international mail.

33 Hazard Classes

331 Nine Classes

Every hazardous material is assigned to one of nine hazard classes as defined in 49 CFR 172.101 and 173. The nine hazard classes are as follows:

- a. Class 1: Explosives.
- b. Class 2: Gases.
- c. Class 3: Flammable and Combustible Liquids.
- d. Class 4: Flammable Solids.
- e. Class 5: Oxidizing Substances, Organic Peroxides.
- f. Class 6: Toxic Substances and Infectious Substances.
- g. Class 7: Radioactive Materials.
- h. Class 8: Corrosives.
- i. Class 9: Miscellaneous Hazardous Materials.

Some of the nine classes are further separated into divisions based on their physical or chemical properties, as shown in Exhibit 331.

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Exhibit 331 **DOT Hazard Classes and Postal Mailability**

		Dome	International Mail and APO/FPO Mail				
Class	Name of Hazard Class (and Division when applicable)	Air Transportation					
1	Explosives						
	Division 1.1: Mass Explosive Hazard	Prohibited	Prohibited	Prohibited			
	Division 1.2: Projection Hazard	Prohibited	Prohibited	Prohibited			
	Division 1.3: Fire and/or Minor Blast/ Minor Projection Hazard	Prohibited	Prohibited	Prohibited			
	Division 1.4: Minor Explosion Hazard	Prohibited	Only with prior HQ approval per 341	Prohibited			
	Division 1.5: Very Insensitive With Mass Explosion Hazard	Prohibited	Prohibited	Prohibited			
	Division 1.6: Extremely Insensitive; No Mass Explosion Hazard	Prohibited	Prohibited	Prohibited			
2	Gases		•	1			
	Division 2.1: Flammable Gases	Prohibited	Only ORM-D material per 342	Prohibited			
	Division 2.2: Nonflammable Gases	Only ORM-D material per 342	Only ORM-D material per 342	Prohibited			
	Division 2.3: Toxic Gases	Prohibited	Prohibited	Prohibited			
3	Flammable and Combustible Liquids						
	All Flammable Liquids	Prohibited	Only ORM-D material per 343	Prohibited			
	All Combustible Liquids	Only ORM-D material per 343	Only ORM-D material per 343	Prohibited			
4	Flammable Solids		•	-			
	Division 4.1: Flammable Solids	Prohibited	Only ORM-D material per 344	Prohibited			
	Division 4.2: Spontaneously Combustible	Prohibited	Only ORM-D material per 344	Prohibited			
	Division 4.3: Dangerous When Wet	Prohibited	Only ORM-D material per 344	Prohibited			
5	Oxidizing Substances, Organic Peroxide	es	•	-			
	Division 5.1: Oxidizing Substances	Only ORM-D material per 345	Only ORM-D material per 345	Prohibited			
	Division 5.2: Organic Peroxides	Only ORM-D material per 345	Only ORM-D material per 345	Prohibited			
6	Toxic Substances and Infectious Substa	inces					
	Division 6.1: Toxic Substances	ORM-D material per 346; other poisons as permitted in 346.231	ORM-D material per 346; other poisons as permitted in 346.231	Prohibited			
	Division 6.2: Infectious Substances	Only as permitted in 346	Only as permitted in 346	Only registered ai letters per 62			

Exhibit 331 **DOT Hazard Classes and Postal Mailability**

		Domes	International Mail and APO/ FPO Mail	
Class	Name of Hazard Class (and Division when applicable)	7		
7	Radioactive Material	Prohibited	Only per 347	Only registered air letters per 622
8	Corrosives (Liquids And Solids)	Only ORM-D material per 348	Only ORM-D material per 348	Prohibited
9	Miscellaneous Hazardous Materials	ORM-D material and other materials as permitted in 349	ORM-D material and other materials as permitted in 349	Prohibited, except for magnetized materials per 349 and 622.4

332 Limited Quantity

A *limited quantity* of a hazardous material is the maximum amount of a specific hazardous material exempted from DOT labeling or packaging requirements in 49 CFR. To be eligible to be shipped under DOT's limited quantity provision, a hazardous material must be authorized an exemption in column 8A of the Hazardous Materials Table in 49 CFR 172.101. *Not every hazardous material is eligible to be shipped as a limited quantity.*

Under Postal Service standards, a material meeting the eligibility criteria for shipment as a limited quantity is mailable only if it can be further reclassed as an ORM-D material (see 333). Not every hazardous material permitted to be shipped as a limited quantity can qualify as an ORM-D material.

Except as specifically permitted in DMM 601.10 and this publication, materials that cannot be reclassed as an ORM-D material are not eligible for mailing.

333 ORM-D Materials

Some of the hazardous materials that qualify under the limited quantity provision are permitted a further exemption in 49 CFR 172.101 (column 8A) to be reclassified as an ORM-D material under 49 CFR 173.144 and renamed with the proper shipping name "Consumer Commodity," which is defined in Appendix D. A mailable ORM-D material is additionally subject to the mailability and quantity limits in DMM 601.10 and this publication, as applicable.

Most mailable hazardous materials fall within the ORM-D category. ORM-D materials present the lowest level of risk during transportation. The ORM-D category is unique to the United States. Its use is prohibited with international shipments of hazardous materials.

It is the responsibility of the mailer to know the correct hazard class of a hazardous material before mailing (see 323).

When assistance is needed to determine eligibility for mailing, the mailer may request a ruling from the PCSC (215.2 and DMM 601.10.6).

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334 Small Quantity

334.1 **Definition**

A *small quantity* is the maximum amount of a specific hazardous material that is not subject to any DOT requirements (e.g., packaging, marking, labeling) other than those in 49 CFR 173.4. *Not every hazardous material is eligible to be shipped as a small quantity.* Additionally, for Postal Service purposes, Class 7 materials are not permitted to be sent as a small quantity.

The DOT small quantity provision, like the DOT ORM-D category, is unique to the United States. Its use is prohibited with international shipments of hazardous materials and cannot be used in international mail.

334.2 Mailability

Hazardous materials in Class 3, Division 4.1, Division 4.2 (Packing Groups II and III only), Division 4.3 (Packing Groups II and III only), Division 5.1, Division 5.2, Division 6.1 (Packing Groups II and III only), Class 8, and Class 9 are eligible to be sent in the domestic mail under the small quantity provision only when each primary receptacle is limited to the following quantity, as applicable:

- a. 30 ml (1 oz) or less for liquids other than Division 6.1 (Packing Group I) materials.
- b. 30 g (1 oz) or less for solids other than Division 6.1 (Packing Group I) materials.
- c. 1 g (0.04 oz) or less for Division 6.1 (Packing Group I) materials.

334.3 Packaging and Marking

Hazardous materials eligible to be shipped under the small quantity provision permitted in 49 CFR and 334.2 must be prepared following Packaging Instruction 10A in Appendix C. Each mailpiece that qualifies to be sent under the small quantity provision must be clearly marked on the address side with the following words: "This package conforms to 49 CFR 173.4."

Packaging Requirements for Hazardous Materials

335.1 DOT Packing Groups

Hazardous materials in Classes 1, 3-6, and 8-9 are assigned to a DOT packing group based on the degree of danger presented by the material during transport. The packing group assigned to a hazardous material is listed in column 5 of the Hazardous Material Table in 49 CFR 172.101 and in column (d) of Appendix \underline{A} . Packing Group I indicates a great danger, Packing Group II a medium danger, and Packing Group III a minor danger.

335.2 Postal Service Packaging Instructions

For mailing purposes, the packaging of a mailable hazardous material must follow the appropriate Packaging Instruction in Appendix \underline{C} . The correct Packaging Instruction to use for a specific hazardous material can be determined using Appendix \underline{A} .

Mailers may not package or combine hazardous materials assigned to different hazard classes within a single mailpiece unless permitted by Postal Service standard.

336 Nonmailable Materials Found in the Mailstream

When any mailpiece containing a nonmailable hazardous material is found in the mailstream, the procedures in POM 139.117 must be followed if the materials present an immediate threat to persons or property. When there is not immediate threat to persons or property, follow the procedures in POM 139.118 and Management Instruction (MI) DM-601-05-1, *Hazardous Materials Acceptance and Handling*.

34 Mailability by Hazard Class

341 Explosives (Hazard Class 1)

341.1 **Definition**

An *explosive* is any substance or article, including a device, that is designed to function by explosion (an extremely rapid release of gas and heat) or that, by chemical reaction within itself, is able to function in a similar manner even if not designed to function by explosion, unless the substance or article is otherwise classed under the provisions in 49 CFR.

341.11 Class 1 Divisions

Hazard Class 1 has six divisions as follows:

- Division 1.1 consists of explosives that have a mass explosion hazard.
 Examples are black powder, nitroglycerine (desensitized), dynamite, most types of torpedoes, and mercury fulminate.
- b. *Division 1.2* consists of explosives that have a projection hazard but not a mass explosion hazard. Examples are certain types of fireworks, some types of detonating fuses, and some types of ammunition.
- c. Division 1.3 consists of explosives that have a fire hazard and either a minor blast or minor projection hazard or both, but not a mass explosion hazard. Examples are sodium picramate, some liquid and solid propellants, and some rocket motors.
- d. *Division 1.4* consists of explosives that present a minor blast hazard. Examples are common fireworks, toy caps, empty primed grenades, and some small arms ammunition.
- e. *Division 1.5* consists of very insensitive explosives that have a mass explosion hazard. Examples are type E blasting agents, some type B blasting agents, and very insensitive explosive substances.
- f. *Division 1.6* consists of extremely insensitive articles that do not have a mass explosion hazard.

341.12 Class 1 Compatibility Codes

Each division in Class 1 is further assigned a compatibility group code. The compatibility code consists of one letter (A–H, J–L, N, or S) that is positioned

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after the division number (e.g., 1.1A, 1.2C, 1.4S) and refers to the transportation and storage controls necessary to prevent potential hazards. See 49 CFR 173.52 for a more detailed description of the Class 1 compatibility codes.

341.2 Mailability, Packaging, and Marking

Explosives are generally prohibited from mailing under 18 U.S.C. 1716. The following conditions apply to the mailing of explosives:

- a. International Mail. All explosives are prohibited.
- b. Domestic Mail via Air Transportation. All explosives are prohibited.
- c. Domestic Mail via Surface Transportation. Generally, explosives are prohibited. The only exceptions are for Division 1.4S toy propellant devices and safety fuses that have been approved by the Manager, Mailing Standards, USPS Headquarters, Washington, DC prior to mailing as stated in 341.22 and DMM 601.10.11.2.

341.21 Nonmailable Explosives

Nonmailable explosives found in the mailstream must be immediately reported in accordance with POM 139.117.

Nonmailable explosives include, but are not limited to, the following:

- a. Common Fireworks. Fireworks are classified as Division 1.1, 1.2, 1.3, or 1.4 explosives depending on the degree of hazard. Fireworks include roman candles, skyrockets, helicopter-type rockets, cylindrical and cone fountains, pyrotechnic wheels, illuminating torches, firecrackers, salutes, and combinations of items that are designed to produce any of the aforementioned types of effects. All types of fireworks are prohibited from mailing.
- b. *Fuses*. Fuses are classified as Division 1.3 or 1.4 explosives depending on the degree of hazard. All types of fuses (except safety fuses as permitted under 341.22) are prohibited from mailing.
- c. Small Arms Ammunition. Ammunition is classified as a Division 1.1, 1.2, 1.3, or 1.4 explosive, depending on the degree of hazard. Ammunition that is regulated as a Class 1 explosive and designed to be fired from a pistol, revolver, rifle, or shotgun, as well as associated primers and blank cartridges (including those designed for tools) and propellant powder for use in any firearm, is prohibited from mailing.

341.22 Mailable Explosives

The following specific types of explosives may be mailed only when the applicable conditions are met. Full responsibility rests with the mailer to comply with Bureau of Alcohol, Tobacco, Firearms and Explosives (BATFE) regulations before mailing.

a. Toy Propellant Devices. The proper shipping name for a toy propellant device is "model rocket motor" or "igniters." A toy propellant device assigned UN0454 or NA0323 and classed as a Division 1.4S explosive is eligible for mailing in domestic mail via surface transportation only when prior written permission has been obtained from the Manager, Mailing

Standards, USPS Headquarters, Washington, DC. A device approved for mailing is subject to the following conditions:

- (1) Each device must be ignitable by electrical means only; contain no more than 30 g (1.07 oz) of propellant; and produce less than 80 newton seconds of total impulse with thrust duration not less than 0.050 second.
- (2) Each device must be constructed so that all chemical ingredients are preloaded into a cylindrical paper or similarly constructed nonmetallic tube that does not fragment into sharp, hard pieces; must be designed so that it will not burst under normal conditions of use; must be incapable of spontaneous ignition under 500° F; and must not contain any type of explosive or pyrotechnic warhead other than a small, activation-charge, parachute-recovery system.
- (3) Each mailpiece containing approved devices must be prepared for mailing following Packaging Instruction 1A in Appendix C. A shipper's declaration for dangerous goods is required.
- b. Safety Fuses (UN0105). Safety fuses consist of a core of black powder over-spun with yarns, waterproofing compounds, and/or tapes. Safety fuses assigned UN0105 as a Division 1.4S explosive may be mailed in domestic mail via surface transportation only when prior written approval has been granted by the Manager, Mailing Standards, USPS Headquarters, Washington, DC. Mailable safety fuses must be prepared using Packaging Instruction 1B in Appendix C. A shipper's declaration for dangerous goods is required.

Note: "Safety Fuses" are not to be confused with "fusees." Fusees are rail and highway distress signals that are nonmailable Class 4 flammable solids.

c. Shotgun Hulls, Empty Casings, Nonmetallic Shotgun Hulls, or Casings Without Primers. These articles are not classified as explosives or hazardous materials under 49 CFR and, therefore, are mailable subject to the applicable mailing rules (see 227).

342 Gases (Hazard Class 2)

342.1 **Definition**

Hazard Class 2 consists of three divisions:

a. Division 2.1, Flammable Gases. A material that is a gas at 68° F (20° C) or less and 14.7 psi (101.3 kPa) of pressure. Flammable gases also include materials that have a boiling point of 68° F (20° C) or less at 14.7 psi (101.3 kPa) and that are ignitable at 14.7 psi (101.3 kPa) when in a mixture of 13 percent or less by volume with air or that have a flammable range at 14.7 psi (101.3 kPa) with air of at least 12 percent regardless of the lower limit. These conditions must be established in accordance with ASTM E681–85, Standard Test Method for Concentration Limits of Flammability of Chemicals, or other approved equivalent method. The flammability of aerosols must be determined using the tests specified in 49 CFR 173.306(i).

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b. *Division 2.2, Nonflammable, Nontoxic Gases.* A material that does not meet the definition of Division 2.1 or 2.3 and exerts in its packaging an absolute pressure of 40.6 psia (280 kPa) or greater at 68° F (20° C).

c. Division 2.3, Toxic Gases. A material that is poisonous by inhalation and is a gas at 68° F (20° C) or less and a pressure of 14.7 psi (101.3 kPa), or a material that has a boiling point of 68° F (20° C) or less at 14.7 psi (101.3 kPa).

342.2 Mailability

The following conditions apply to the mailing of gases:

- a. International Mail. All gases are prohibited.
- b. Domestic Mail via Air Transportation. Flammable gases in Division 2.1 and toxic gases in Division 2.3 are prohibited. Nonflammable gases in Division 2.2 are generally permitted if the material can qualify as an ORM-D material and meet the quantity limitations and packaging requirements in 342.3 and 342.4.
- c. Domestic Mail via Surface Transportation. Toxic gases in Division 2.3 are prohibited. Flammable gases in Division 2.1 and nonflammable gases in Division 2.2 are generally permitted if the material can qualify as an ORM-D material and meet the quantity limitations and packaging requirements in 342.3 and 342.4.

342.21 Nonmailable Gases

When any gas that is nonmailable is discovered in the mailstream, the procedures in DM-601-05-1, *Hazardous Materials Acceptance and Handling,* must be followed if the materials present an immediate threat to persons or property. The procedures in POM 139.118 are followed when there is no immediate threat to persons or property.

The following are some specific types of nonmailable gases:

- a. Cigarette Lighters (NA1226). Generally, lighters charged with fuel and having an ignition system or any similar heating, lighting, or ignition device are a Class 3 flammable liquid and are nonmailable. However, if an approval number is obtained from DOT, consideration for mailing may be requested from the PCSC manager under the provisions in 343.25 and DMM 601.10.13.4.
- b. Oxygen, Refrigerated Liquid. Liquid oxygen (UN1073) is prohibited from mailing under any circumstances.
- Fire Extinguishers. Fire extinguishers (UN0275, UN0276, UN0323, or UN0381) that contain propellant explosives are prohibited from mailing.
 Note: See 342.22 for mailable types of fire extinguishers.
- d. Toxic Gases. All Division 2.3 toxic gases are prohibited from mailing.

342.22 Mailable Gases

The following are examples of mailable gases:

a. Butane. Butane (UN1011) and Receptacles, small (UN2037) with butane or butane mixtures are Division 2.1 flammable gases. Butane gases that can qualify as ORM-D materials are acceptable only in

- domestic mail via surface transportation when properly prepared under 342.3 and Packaging Instruction 2A in Appendix C.
- b. Oxygen, Compressed. Oxygen (UN1072) is a Division 2.2 nonflammable gas and is acceptable in domestic mail only if it can be reclassified as an ORM-D material. The requirements in 342.3 and Packaging Instruction 2B in Appendix C must be followed.
- c. *Propane*. Propane is a Division 2.1 flammable gas and is acceptable in domestic mail via surface transportation only if it can be reclassified as an ORM-D material. The requirements in 342.3 and Packaging Instruction 2A in Appendix C must be followed. Propane is nonmailable in domestic mail via air transportation.
- d. Fire Extinguishers. Extinguishers that contain a Division 2.2 nonflammable compressed gas and are assigned UN1044 are mailable if they do not contain methyl bromide gas mixtures and the contents are held in DOT specification 2P or 2Q containers. Only one extinguisher per mailpiece is permitted, and the compressed gas contained within the fire extinguisher must be nonflammable, nonpoisonous, or noncorrosive as required under 49 CFR 173.309(a). The requirements in Packaging Instruction 2B in Appendix C must be followed.

Note: Fire extinguishers assigned UN1774 are mailable as Class 8 corrosives subject to the limitations for corrosives in <u>348</u> and DMM 601.10.19.

- e. *Empty Compressed Gas Containers*. Empty used containers of compressed gas are mailable subject to the same restrictions that applied when the container was filled (because residual amounts of the hazardous material might remain present). Empty, unused (i.e., new) containers are mailable without restriction.
- f. Aerosol Paint Products. Aerosol paint products that are defined as flammable compressed gases are acceptable in the domestic mail via surface transportation only if they can qualify as ORM-D materials and meet the quantity limitations and applicable packaging requirements in 342.3, 342.4, and DMM 601.10.12.
- g. Other Mailable Gases. Materials whose contents are under pressure, such as carbonated beverages, biological/medical products, cosmetics, foodstuffs and soaps, electronic tubes, and audible fire alarm systems (except for any that may contain poisonous gases or others that may be specifically excluded by 49 CFR 173.306), are acceptable in the domestic mail as follows:
 - Carbonated Beverages. These items are not regulated as hazardous materials and are acceptable without restriction. Carbonated beverages must be properly packaged under DMM 601.1–8.
 - (2) Biological Products or Medical Preparations. A product or preparation in a nonrefillable metal primary receptacle charged with a nonflammable solution (containing a biological product or a medical preparation that heat could deteriorate) may be

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- accepted for domestic surface mail only, provided the conditions in Packaging Instruction 2F in Appendix C are followed.
- (3) Foodstuffs and Soaps. These materials are mailable provided the conditions in Packaging Instruction 2D in Appendix C are met.
- (4) Electronic Tubes. These materials are mailable without restriction if the volume is 30 cubic inches or less and the tube is charged with gas to a pressure of 35 psig or less. Such tubes must be packed in a strong outer container and meet the general packaging requirements in DMM 601.1–8.
- (5) Audible Fire Alarm Systems. An audible fire alarm system powered by a compressed gas is acceptable in the domestic mail via surface transportation provided the conditions in Packaging Instruction 2E in Appendix C are followed.

342.3 Packaging

Mailable compressed gases must be packaged to protect valves and fittings and to ensure integrity of the primary receptacle during transport. Containers must use recessed valves, screw thread caps, tap closures, or other means to prevent accidental discharge.

The following conditions apply:

- a. Nonmetal Containers. A mailable gas is acceptable in an other-than-metal primary receptacle if the water capacity is 4 fluid ounces (7.22 cubic inches) or less. Packaging Instruction 2A or 2B, as applicable, must be followed.
- b. *Metal Containers*. Mailable nonflammable and flammable compressed gases are acceptable in metal primary receptacles that have a water capacity up to 33.8 fluid ounces (1 liter or 61.0 cubic inches). The liquid content of the material and the gas must not completely fill the primary receptacle at 130° F (55° C). Additionally, the following apply:
 - (1) A DOT 2P container must be used if the internal pressure is from 140 psig to 160 psig at 130° F (55° C).
 - (2) A DOT 2Q container must be used if the pressure is from 161 psig to 180 psig at 130° F (55° C).
 - (3) A container with an internal pressure over 180 psig at 130° F (55° C) is prohibited from mailing.
 - (4) Packaging Instruction 2A or 2B, as applicable, must be followed.
- Flammable Gases. A mailable flammable compressed gas is restricted to 4 fluid ounces in a nonmetal primary receptacle or 33.8 fluid ounces (1 liter) in a metal primary receptacle per mailpiece Packaging Instruction 2A must be followed.
- d. Nonflammable Gases. A mailable nonflammable gas is permitted in individual 4 fluid ounce nonmetal primary receptacles or 33.8 fluid ounce (1 liter) metal primary receptacles. Multiple primary receptacles may be securely packed within a single, strong outer packaging. Each mailpiece must not exceed a total weight of 25 pounds. Packaging Instruction 2B must be followed.

342.4 Marking and Documentation

Parcels containing mailable gases must be marked as follows:

- a. For air transportation, parcels containing mailable gases must be plainly and durably marked on the address side with "ORM-D AIR" immediately following or below the proper shipping name (e.g., Consumer Commodity). A properly completed shipper's declaration for dangerous goods prepared in triplicate must be affixed to the outside of the mailpiece.
- b. For surface transportation, parcels containing mailable gases must be plainly and durably marked on the address side with "Surface Only" or "Surface Mail Only" and "ORM-D," immediately following or below the proper shipping name (e.g., Consumer Commodity). A shipper's declaration for dangerous goods is not required for mailable gases sent via surface transportation.
- c. Optionally, mailable ORM-D material may be marked with an approved DOT limited quantity square-on-point marking (see <u>Exhibit 325b</u>). The plain square-on-point marking is used for shipments sent by surface transportation, and the square-on-point marking including the symbol "Y" superimposed in the center is used for shipments sent by air transportation. The following also apply:
 - (1) Markings must be durable, legible, and readily visible.
 - (2) The marking must be applied on at least one side or one end of the outer packaging. The border forming the square-on-point must be at least 2 mm in width, and the minimum dimension of each side must be 100 mm, unless the package size requires a reduced size marking of no less than 50 mm on each side.
 - (3) For surface transportation, the top and bottom portions of the square-on-point and the border forming the square-on-point must be black, and the center must be white or of a suitable contrasting background. Surface shipments containing qualifying ORM-D material bearing the square-on-point limited quantity marking are not required to be marked with the shipping name and identification number.
 - (4) For transportation by aircraft, the top and bottom portions of the square-on-point and the border forming the square-on-point must be black, and the center must be white or of a suitable contrasting background. The symbol "Y" must be black, located in the center of the square-on-point, and clearly visible. Mailpieces intended for transport by air must also be marked with the proper shipping name "Consumer Commodity" and identification number "ID8000." Each mailpiece must also bear an approved DOT Class 9 hazardous material warning label (see Exhibit 325c).

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342.5 Mailability Rulings

In addition to the information required in <u>215.2</u> and DMM 601.10.6, requests for mailability rulings on gases and products containing compressed gases need to include the following information:

- Documentation indicating whether or not the contents are a flammable mixture when dispersed.
- b. The internal pressure within the primary receptacle at 70° F (21° C) and 130° F (55° C).
- c. Documentation as to whether or not the liquid contents completely fill the container at 70° F (21° C) and 130° F (55° C).
- d. The bursting strength of the primary receptacle.
- e. The capacity of the primary receptacle and the number of primary receptacles proposed to be packed within a single mailpiece.
- f. The design methods intended to prevent accidental discharge of the contents.

Flammable and Combustible Liquids (Hazard Class 3)

343.1 **Definition**

The terms used in the standards that apply to Hazard Class 3 are defined as follows:

- a. Flammable Liquid means a liquid that has a flashpoint of not more than 141° F (60.5° C), or any material in a liquid phase that has a flashpoint at or above 100° F (38° C).
- b. Combustible Liquid means any liquid that does not meet the definition of any other hazard class and has a flashpoint above 141° F (60.5° C) and below 200° F (93° C). A flammable liquid with a flashpoint at or above 100° F (38° C) that does not meet the definition of any other hazard class may be reclassified as a combustible liquid per 49 CFR 173.120(b).

Note: A liquid with a flashpoint above 200° F (93° C) is not regulated as a hazardous material and may be mailed subject to the general packaging requirements in DMM 601.1–8, provided it possesses no characteristics of another hazard class.

343.2 Mailability and Packaging

343.21 Requirements for Flammable Liquids

The following conditions apply:

- a. International Mail. Flammable liquid is prohibited.
- b. Domestic Mail via Air Transportation. Flammable liquid is prohibited.
- c. Domestic Mail via Surface Transportation. Flammable liquid with a flashpoint of 20° F (-7° C) or below is prohibited. Other flammable liquid is permitted if the material can qualify as an ORM-D material and meet

the criteria in <u>Exhibit 343.21</u>. A mailable flammable liquid must be prepared according to Packaging Instruction 3A in Appendix <u>C</u>, as applicable.

Exhibit 343.21 **Flammable Liquids**

Flashpoint	Mailability
20° F (-7° C) or below	Not acceptable for mailing.
Above 20° F (-7° C) but not more than 73° F (23° C)	Acceptable (with restrictions) for domestic mail via surface transportation only. Follow requirements for Packaging Instruction 3A in Appendix $\underline{\mathbf{C}}$, as applicable.
Above 73° F (23° C) but less than 100° F (38° C)	Acceptable (with restrictions) for domestic mail via surface transportation only. Follow requirements for Packaging Instruction 3A in Appendix $\underline{\mathbf{C}}$, as applicable.
100° F (38° C) and up to 141° F (60.5° C)	Acceptable (with restrictions) for domestic mail via surface transportation only. Follow requirements for Packaging Instruction 3A or 3B in Appendix C, as applicable.
	Note: If the flashpoint is between 100° F (38° C) and 141° F (60.5° C), the liquid may be eligible to be reclassed as a combustible liquid.
Over 141° F (60.5° C)	See combustible liquids in $\underline{343.22}$. Follow requirements for Packaging Instruction 3A in Appendix $\underline{\mathbf{C}}$.

343.22 Requirements for Combustible Liquids

The following conditions apply:

- a. International Mail. Combustible liquid is prohibited.
- b. Domestic Mail via Air Transportation. Combustible liquid is permitted if the material can qualify as an ORM-D material and meet the criteria in <u>Exhibit 343.22</u>. Packaging Instruction 3B in Appendix C must be followed, as applicable.
- c. Domestic Mail via Surface Transportation. Combustible liquid is permitted if the material can qualify as an ORM-D material and meet the criteria in Exhibit 343.22. Packaging Instruction 3B in Appendix C must be followed, as applicable.

Exhibit 343.22 **Combustible Liquids**

Flashpoint	Mailability
Below 100° F (38° C)	Not a combustible liquid. See flammable liquids in 343.21.
100° F (38° C) but not more than 141° F (60.5° C)	A flammable liquid that may be eligible to be reclassified as a combustible liquid under 49 CFR 173.120(b). See 343.1. Acceptable (with restrictions) in domestic mail via surface transportation only. Follow requirements for Packaging Instruction 3B in Appendix C, as applicable.

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Exhibit 343.22 **Combustible Liquids**

Flashpoint	Mailability
Above 141° F (60.5° C) but not more than 200° F (93° C)	Acceptable (with restrictions) for domestic mail via air transportation or surface transportation. Follow requirements for Packaging Instruction 3B in Appendix C, as applicable.

343.23 Nonmailable Flammable and Combustible Liquids

When flammable liquids and combustible liquids that are nonmailable under 343.21 or 343.22 and DMM 601.10.13. are found in the mailstream, the procedures in POM 139.117 must be followed if the materials present an immediate threat to persons or property. When there is no immediate threat to persons or property, follow the procedures in POM 139.118.

The following materials are nonmailable:

- a. All flammable liquids having a flashpoint of 20° F (-7° C) or below are prohibited from mailing.
- b. Gasoline (UN1203) is a flammable liquid that normally has a flashpoint of -50° F. Gasoline is nonmailable under any circumstances.

343.24 Mailable Flammable and Combustible Liquids

The following are mailable:

- a. Paint or a related item (UN1263) classified as a flammable or combustible liquid is generally acceptable for mailing provided the material can qualify as an ORM-D material and is sent within the quantity limitations and packaging requirements stated in 343.21 or 343.22, as applicable. Also see 343.26. Mailpieces must be prepared following Packaging Instruction 3A or 3B in Appendix C, as applicable.
- b. Latex Paint or a similar water-based paint product that is not flammable or combustible is not regulated as a hazardous material, and therefore is not restricted. Also see 343.26. Mailpieces must be properly packaged under DMM 601.1–8.
- c. Canned Heat (Sterno) is a flammable liquid that normally has a flashpoint from 40° F (4° C) to 80° F (27° C). It is permitted only in domestic mail via surface transportation provided the liquid can qualify as an ORM-D material and is sent within the quantity limitations and packaging requirements stated in 343.21. Mailpieces must be prepared following Packaging Instruction 3A in Appendix C.
- d. Cigarette Lighter Fluid is a flammable liquid that normally has a flashpoint between 20° F (-7° C) and 55° F (13° C). It is permitted only in domestic mail via surface transportation provided the fluid can qualify as an ORM-D material and is sent within the conditions of 343.21. Mailpieces must be prepared following Packaging Instruction 3A in Appendix C.

- e. Diesel Fuel (NA1993) is a combustible liquid that normally has a flashpoint between 110° F (43° C) and 190° F (88° C). It is acceptable for mailing provided the fluid can qualify as an ORM-D material and the liquid is sent within the conditions in 343.22. Mailpieces must be prepared following Packaging Instruction 3B in Appendix C.
- f. Fuel Oil (NA1993) is a flammable liquid that normally has a flashpoint below 100° F (38° C). The specific flashpoint must be accurately identified by the mailer before a mailability determination can be made. Fuel oil is acceptable in the domestic mail via surface transportation only. provided the liquid can qualify as an ORM-D material and is sent within the conditions of 343.21 or 343.22, as applicable. Mailpieces must be prepared following Packaging Instruction 3A in Appendix C.
- g. Adhesives and Cements (UN1133) that are classified as flammable or combustible liquids are mailable only if the material can qualify as an ORM-D material and the applicable conditions in 343.21 or 343.22 are met. Mailpieces must be prepared following Packaging Instruction 3A or 3B in Appendix C, as applicable.
 - **Note:** Some adhesives and cements are extremely toxic and may be classified as Division 6.1 toxic substances. Division 6.1 materials are mailable only as permitted in 346.21.
- h. Cleaning Agents and Solvents that are classified as flammable liquids are mailable only if the material can qualify as an ORM-D material and the applicable conditions in 343.21 can be met. Mailpieces must be prepared following Packaging Instruction 3A in Appendix C.
 - **Note:** Some cleaning agents and solvents are extremely toxic or corrosive and may be classified as either a Division 6.1 toxic substance or a Class 8 corrosive. Division 6.1 toxic materials and Class 8 corrosives are permitted only within the conditions of 346.21 and 348.2 respectively.
- i. Model Fuel (for glow-plug engines) is a flammable liquid that has a flashpoint ranging from 65° F to 75° F. It is acceptable only in the domestic mail via surface transportation, provided the material can qualify as an ORM-D material and the applicable conditions in <u>343.21</u> are met. Mailpieces must be prepared following Packaging Instruction 3A in Appendix C.
- j. Waxes and Polishes have a wide range of flashpoints. The flashpoint and toxicity must be accurately identified by the mailer before mailability can be determined. Any waxes or polishes that are flammable or combustible liquids are permitted to be mailed, provided the material can qualify as an ORM-D material and the applicable conditions in 343.21 and 343.22 are met. Mailpieces must be prepared following Packaging Instruction 3A or 3B in Appendix C, as applicable.

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343.25 Cigarette Lighters

A cigarette lighter equipped with an ignition element and containing fuel is classified as a Class 3 flammable liquid. A cigarette lighter containing a flammable gas is classed as a Division 2.1 flammable gas. A cigarette lighter that contains either flammable liquid or flammable gas is permitted only in the domestic mail via surface transportation with prior written approval and within these conditions:

- The design of the lighter and its packaging are approved by the DOT Associate Administrator for Hazardous Materials Safety, per 49 CFR 173.21(i) and 173.308, and a DOT Approval Number (T-Number) is issued.
- b. The prospective mailer of the lighter submits to the PCSC manager a written request for authorization to mail the lighter, accompanied by a legible photocopy of the official DOT notice conveying the approval described in 343.25a, along with a specimen of the actual lighter, the packaging materials in which each lighter is to be mailed, and the number of mailpieces and mailing location; the mailer receives from the PCSC manager a letter approving the requested authorization for mailing.
- The packaging must be designed to protect the lighter's sparking mechanism from accidental ignition caused by friction or external pressure during transport. Packaging Instruction 3C in Appendix C must be followed.
- d. When presented for mailing, the address side of the mailpiece must prominently display the proper shipping name "Lighter(s)" or "Lighter(s) for Cigarette" followed by the T-Number and the marking "Surface Only" or "Surface Mail Only," all preparation and packaging requirements in the PCSC manager's approval letter must be met. A legible photocopy of the PCSC manager's approval must accompany the mailing at the time of deposit.
- e. A shipper's declaration for dangerous goods is not required.

343.26 Paints, Paint-Related Materials, and Inks

The following definitions apply:

- a. Paint (UN1263) is the proper shipping name and description for paint, lacquer, enamel, stain, shellac, varnish, liquid aluminum, liquid bronze, liquid gold, liquid wood filler, and liquid lacquer base. Paint-related material (UN1263) is the proper shipping name and description for a paint-thinning, paint-drying, paint-reducing, or paint-removing compound. See 343.24a and 343.24b for mailability.
- b. Inks are defined as colored liquids used for writing, drawing, etc., and liquids and pastes used in printing. Printing inks usually are mixtures of finely divided pigments, such as carbon black suspended in a drying oil. Inks having hazardous characteristics are generally classified as combustible or flammable liquids and are mailable, provided they can qualify as an ORM-D material and meet the applicable requirements in 343.21 or 343.22. Mailpieces must be prepared using Packaging

Instruction 3A or 3B in Appendix \underline{C} , as applicable. In addition, the following conditions apply:

- (1) Regardless of the size or type of container, the primary receptacle(s) containing inks must be cushioned with sufficient absorbent material to take up all liquid contents in case of leakage.
- (2) The primary receptacle(s) and the absorbent cushioning material must be packed within a sealed, leakproof outer packaging.
- (3) Inks that are flammable or combustible liquids must meet the quantity restrictions, packaging requirements, and air or surface transportation conditions that apply under 343.2.

Note: Inks that do not possess any hazardous characteristics are not regulated as hazardous materials and are mailable if properly prepared under the requirements for packaging liquids in DMM 601.1–8.

343.27 **DOT Special Permit Authorization (SP 9275)**

Manufacturers and distributors seeking to use the mail to ship parcels via air transportation in accordance with DOT Special Permit 9275 (DOT-SP 9275) must submit a written request for approval to the manager of Mailing Standards (see 608.8.0 for address). Approval to mail parcels using DOT-SP 9275 allows the mailer to use First-Class Mail, Priority Mail, or Parcel Select service for shipping in compliance with all DOT regulations in DOT-SP 9275 and the following mailing requirements:

- The mailer must present a current copy of its DOT Special Permit
 Authorization letter with a written request for approval to the manager
 of Mailing Standards.
- b. Once approved, the mailer must present a copy of its approval letter from the manager of Mailing Standards (to be kept on file at the office of mailing) at the time of its first mailing at any given Postal Service facility, along with a copy of its current DOT Special Permit Authorization letter. It is the mailer's responsibility to provide the office of mailing with updated DOT Special Permit approval letters. The Postal Service has the right to refuse mailings not supported by a current DOT authorization letter.
- c. The mailer will enter parcels using First-Class Mail, Priority Mail, or Parcel Select service via a Postal Service-authorized manifest mailing system (MMS) (see DMM 705.2.0).
- d. The mailer must label each parcel on the address side with "USPS Approved DOT-SP 9275" using at least 14-point type.
- e. The mailer must tender only parcels weighing 10 pounds or less. Each inner package (receptacle) may not exceed 16 ounces of flammable liquid or 1 pound of solids containing flammable liquid.
- f. The mailer must ensure that the addressee of each parcel is notified that the addressee is not authorized to remail the contents of the parcel

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via the Postal Service under DOT-SP 9275. The mailer must include the following notice:

Flammable substances contained in these packages may be mailed only by consumers (the addressee) via surface transportation in accordance with DMM 601.10.13. Full responsibility rests with the mailer to comply with all postal and nonpostal statutes and regulations regarding mail. Information regarding postal statutes, regulations, and mailing requirements is available from your local postmaster or Postal Service Business Mail Entry Manager, and at the Postal Service's mailing standards website at pe.usps.com.

g. The mailer must comply with the warning and labeling requirements set forth in 21 CFR 700, 740.1, and 701.3 when mailing each parcel.

343.3 Marking and Documentation

Parcels containing mailable flammable or combustible liquids must be marked as follows:

- a. For air transportation, parcels containing mailable Class 3 materials must be plainly and durably marked on the address side with "ORM-D AIR" immediately following or below the proper shipping name (e.g., Consumer Commodity). A properly completed shipper's declaration for dangerous goods prepared in triplicate must be affixed to the outside of the mailpiece.
- b. For surface transportation, parcels containing mailable Class 3 materials must be plainly and durably marked on the address side with "Surface Mail" or "Surface Mail Only" and "ORM-D" immediately following or below the proper shipping name (i.e., consumer commodity). A shipper's declaration for dangerous goods is not required for mailable Class 3 materials sent via surface transportation.
- c. Optionally, mailable ORM-D material may be marked with an approved DOT limited quantity square-on-point marking (see <u>Exhibit 325b</u>). The plain square-on-point marking is used for shipments sent by surface transportation, and the square-on-point marking including the symbol "Y" superimposed in the center is used for shipments sent by air transportation. The following also apply:
 - (1) Markings must be durable, legible, and readily visible.
 - (2) The marking must be applied on at least one side or one end of the outer packaging. The border forming the square-on-point must be at least 2 mm in width, and the minimum dimension of each side must be 100 mm, unless the package size requires a reduced size marking of no less than 50 mm on each side.
 - (3) For surface transportation, the top and bottom portions of the square-on-point and the border forming the square-on-point must be black, and the center must be white or of a suitable contrasting background. Surface shipments containing qualifying ORM-D material bearing the square-on-point limited quantity marking are not required to be marked with the shipping name and identification number.

- (4) For transportation by aircraft, the top and bottom portions of the square-on-point and the border forming the square-on-point must be black, and the center must be white or of a suitable contrasting background. The symbol "Y" must be black, located in the center of the square-on-point, and clearly visible.

 Mailpieces intended for transport by air must also be marked with the proper shipping name "Consumer Commodity" and identification number "ID8000." Each mailpiece must also bear an approved DOT Class 9 hazardous material warning label (see Exhibit 325c).
- d. Cigarette lighters must be marked as specified in 343.25.
- e. Flammable liquids mailed under DOT-SP 9275 must be marked as specified in 343.27.

344 Flammable Solids (Hazard Class 4)

344.1 **Definition**

Hazard Class 4 consists of three divisions:

- a. Division 4.1, Flammable Solids. Any solid material other than one classed as an explosive that, under conditions normally incident to transportation, is likely to cause fires through friction or retained heat from manufacturing or processing, or that can be ignited readily and, when ignited, burns so vigorously and persistently as to create a serious transportation hazard.
- b. Division 4.2, Spontaneously Combustible. A liquid or solid pyrophoric material that even in small amounts and without an external ignition source can ignite within 5 minutes after coming in contact with air, or a self-heating material that when in contact with air and without an energy supply is liable to self heat.
- c. Division 4.3, Dangerous When Wet. A material that, by contact with water, is likely to become spontaneously flammable or to give off flammable or toxic gas at a rate greater than 1 liter per kilogram of the material per hour.

Examples of flammable solids include certain metallic hydrides, metallic sodium and potassium, oily fabrics, processed metals, matches, and nitrocellulose products.

344.2 **Mailability**

The following conditions apply:

- a. International Mail. All flammable solids are prohibited.
- b. *Domestic Mail via Air Transportation*. All flammable solids are prohibited.
- c. *Domestic Mail via Surface Transportation*. A flammable solid that can qualify as an ORM-D material is permitted.

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344.21 Nonmailable Flammable Solids

When flammable solids that are nonmailable under 344 and DMM 601.10.14 are found in the mailstream, the procedures in POM 139.117 must be followed, if the materials present an immediate threat to persons or property. When there is no immediate threat to persons or property, follow the procedures in POM 139.118.

Strike-anywhere matches are nonmailable in international mail and domestic mail. Safety matches (book, card, or strike-on-box) are nonmailable in international and domestic mail via air transportation.

344.22 Mailable Flammable Solids

The following are mailable:

- a. Flammable solids that are eligible to be reclassed as ORM-D materials are permitted in the domestic mail via surface transportation.
- b. Safety matches (book, card, or strike-on-box) are permitted only in domestic mail via surface transportation.

344.3 Packaging, Marking, and Documentation

The following conditions apply:

- a. Mailable Flammable Solids. The conditions in Packaging Instruction 4A in Appendix C must be followed. Mailpieces containing mailable Class 4 materials must be plainly and durably marked on the address side with "ORM-D" immediately following or below the proper shipping name (i.e., Consumer Commodity). A shipper's declaration for dangerous goods is not required.
- b. Safety Matches. The conditions in Packaging Instruction 4B in Appendix C must be followed. Mailpieces must be plainly and durable marked on the address side with "Surface Only" or "Surface Mail Only" and, as applicable, "Book Matches," "Strike-on-Card Matches," or "Card Matches." A shipper's declaration for dangerous goods is not required.
- c. Optionally, mailable limited quantity (ORM-D) material may be marked with an approved surface transportation DOT limited quantity square-on-point marking (see Exhibit 325b). Mailable surface shipments bearing the plain square-on-point marking are not required to be marked with the shipping name and identification number. The following also applies:
 - (1) Markings must be durable, legible, and readily visible.
 - (2) The marking must be applied on at least one side or one end of the outer packaging. The border forming the square-on-point must be at least 2 mm in width, and the minimum dimension of each side must be 100 mm, unless the package size requires a reduced size marking of no less than 50 mm on each side.
 - (3) The top and bottom portions of the square-on-point and the border forming the square-on-point must be black, and the center must be white or of a suitable contrasting background.

Oxidizing Substances, Organic Peroxides (Hazard Class 5)

345.1 **Definition**

Hazard Class 5 consists of two divisions:

- a. *Division 5.1, Oxidizing Substances*. A material that may, generally by yielding oxygen, cause or enhance the combustion of other materials.
- b. *Division 5.2, Organic Peroxides*. Any organic compound that contains oxygen in the bivalent structure and that may be considered a derivative of hydrogen peroxide, where one or more of the hydrogen atoms have been replaced by organic radicals.

Examples of Class 5 materials (not all of which are mailable) include ferric nitrate, hydrogen peroxide, lead perchlorate, lithium nitrate, organic peroxide solids or liquids, and some swimming-pool chemicals.

345.2 Mailability

The following conditions apply:

- International Mail. All oxidizing substances and organic peroxides are prohibited.
- b. Domestic Mail via Air or Surface Transportation. An oxidizing substance or an organic peroxide that can qualify as an ORM-D material is permitted.

345.21 Nonmailable Class 5 Materials

When nonmailable Class 5 materials are found in the mailstream, the procedures in POM 139.117 must be followed if the materials present an immediate threat to persons or property. The procedures in POM 139.118 are followed when there is no immediate threat to persons or property.

The following Class 5 materials are nonmailable:

- a. Division 5.1, Oxidizing Substances.
 - (1) Chlorine dioxide hydrate, frozen.
 - (2) Hydrogen peroxide solution (more than 20 percent).
 - Perchloric acid.
 - (4) Potassium peroxide.
 - (5) Sodium chlorite.
 - (6) Tetranitromethane.
 - (7) Zinc ammonium nitrate.
- b. *Division 5.2, Organic Peroxides*. Organic peroxides are nonmailable unless they can qualify as ORM-D materials.

345.22 Mailable Class 5 Materials

The following Class 5 materials are mailable:

- a. *ORM-D Material*. A Division 5.1 or 5.2 material that can be reclassified as an ORM-D material is mailable within the requirements in <u>345.2b</u>.
- b. *Hydrogen Peroxide*. There are no restrictions on Division 5.1 hydrogen peroxide solutions up to 8 percent. Solutions of hydrogen peroxide

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exceeding 8 percent and up to 20 percent are permitted if they can qualify as an ORM-D material.

345.3 Packaging, Marking, and Documentation

Parcels containing mailable oxidizing substances or organic peroxides must be marked as follows:

- a. All mailable Division 5.1 and 5.2 materials must be prepared following the conditions for Packaging Instruction 5A in Appendix C.
- b. For air transportation, a parcel containing a mailable Division 5.1 or 5.2 material must be plainly and durably marked on the address side with "ORM-D AIR" immediately following or below the proper shipping name (e.g., Consumer Commodity). A properly completed shipper's declaration for dangerous goods prepared in triplicate must be affixed to the outside of the mailpiece.
- c. For surface transportation, a parcel containing a mailable Division 5.1 or 5.2 material must be plainly and durably marked on the address side with "Surface Only" or "Surface Mail Only" and "ORM-D" immediately following or below the proper shipping name (e.g., Consumer Commodity). A shipper's declaration for dangerous goods is not required for a mailable Division 5.1 or 5.2 material sent via surface transportation.
- d. Optionally, mailable limited quantity (ORM-D) material may be marked with an approved DOT limited quantity square-on-point marking (see Exhibit 325b). The plain square-on-point marking is used for shipments sent by surface transportation, and the square-on-point marking including the symbol "Y" superimposed in the center is used for shipments sent by air transportation. The following also apply:
 - (1) Markings must be durable, legible, and readily visible.
 - (2) The marking must be applied on at least one side or one end of the outer packaging. The border forming the square-on-point must be at least 2 mm in width, and the minimum dimension of each side must be 100 mm, unless the package size requires a reduced size marking of no less than 50 mm on each side.
 - (3) For surface transportation, the top and bottom portions of the square-on-point and the border forming the square-on-point must be black, and the center must be white or of a suitable contrasting background. Surface shipments containing qualifying ORM-D material bearing the square-on-point limited quantity marking are not required to be marked with the shipping name and identification number.
 - (4) For transportation by aircraft, the top and bottom portions of the square-on-point and the border forming the square-on-point must be black, and the center must be white or of a suitable contrasting background. The symbol "Y" must be black, located in the center of the square-on-point, and clearly visible.

 Mailpieces intended for transport by air must also be marked with the proper shipping name and identification number, and must also display an approved DOT class 5.1 or 5.2 hazardous material warning label, as appropriate (see Exhibit 325c).

Toxic Substances and Infectious Substances (Hazard Class 6)

346.1 **Definitions**

Hazard Class 6 consists of two divisions:

- Division 6.1 includes toxic substances, poisons, and irritating material.
 Examples of Division 6.1 materials (not all of which are mailable)
 include bromobenzyl cyanide, methyl bromide, motor fuel anti-knock mixtures, and tear gas.
- Division 6.2 includes infectious substances. Examples of Division 6.2
 materials include infectious substances, biological products, regulated
 medical waste, sharps medical waste, used health care products, and
 forensic materials.

346.11 **Division 6.1**

The following terms are used in the standards for Division 6.1 materials:

- a. *Toxic Substance* is a poisonous material, other than a gas, that is known to be so toxic to humans as to cause death, injury, or harm to human health if swallowed, inhaled, or brought into contact with skin.
- b. Oral Toxicity refers to a liquid with a lethal dose (LD₅₀) for acute oral toxicity of not more than 500 mg/kg or a solid with an LD₅₀ for acute oral toxicity of not more than 200 mg/kg that, when administered by mouth, is likely to cause death within 14 days in half of the test animals.
- c. Dermal Toxicity refers to a material with an LD₅₀ for acute dermal toxicity of not more than 1,000 mg/kg that, when administered by continuous contact with bare skin, is likely to cause death within 14 days in half of the test animals.
- d. Inhalation Toxicity applies to a dust or mist with a lethal concentration (LC₅₀) for acute inhalation toxicity of not more than 10 mg/L, or a saturated vapor concentration in air at 68° F (20° C) of more than one-fifth of the LC₅₀ for acute toxicity on inhalation of vapors and with an LC₅₀ for acute inhalation toxicity of vapors of not more than 5,000 ml/m3 that, when administered by continuous inhalation for 1 hour, is likely to cause death within 14 days in half of the test animals.
- e. *Irritating Material* is any liquid or solid substance (such as tear gas) that gives off intense fumes and causes extreme but reversible localized irritant effects on the eyes, nose, and throat, temporarily impairing a person's ability to function.

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346.12 **Division 6.2, Infectious Substances**

The following terms are used in the standards for Division 6.2 materials:

a. Infectious substance means a material known or reasonably expected to contain a pathogen. A pathogen is a microorganism that can cause disease in humans or animals. Examples of pathogens include bacteria, viruses, fungi, and other infectious agents. An infectious substance must be assigned to one of the following two packaging categories:

- (1) Category A: An infectious substance transported in a form capable of causing permanent disability or life-threatening or fatal disease in otherwise healthy humans or animals when exposure occurs. Category A infectious substances are nonmailable. A Category A infectious substance is assigned the identification number UN2814 or UN2900, based on the known medical history or symptoms of the source patient or animal, endemic local conditions, or professional judgment concerning the individual circumstances of the source human or animal.
- (2) Category B: An infectious substance that does not meet the criteria for inclusion in Category A. A mailpiece known or suspected to contain a Category B infectious substance must bear the proper shipping name "Biological Substance, Category B" on the address side of the mailpiece and must be assigned to and marked with identification number UN3373 (as shown in <u>Exhibit 346.12a2</u> 7or, for regulated medical waste and sharps medical waste, identification number UN3291.

Exhibit 346.12a2

Mailpiece Symbol and Marking for Mailpieces Containing Biological Substance, Category B Substances



b. Biological product means a virus, therapeutic serum, toxin, antitoxin, vaccine, blood, blood component or derivative, allergenic product, or analogous product or arsphenamine or derivative of arsphenamine (or any other trivalent arsenic compound) intended to prevent, treat, or cure a disease or condition of humans or animals. A biological product includes a material subject to regulation under 42 U.S.C. 262 or 21 U.S.C. 151–159. Unless otherwise excepted, mark these mailpieces with identification number UN3373 (as shown in Exhibit 346.12a2) when they contain a biological product known or reasonably expected to contain a pathogen that meets the definition of a Category B infectious substance.

- c. Cultures are infectious substances that result from a process by which pathogens are intentionally propagated. This definition does not include a human or animal patient specimen as defined in 346.12e.
- d. Exempt human or animal specimen means a human or animal sample (including, but not limited to, secreta, excreta, blood and its components, tissue and tissue fluids, and body parts) transported for routine testing not related to the diagnosis of an infectious disease. Typically, exempt human specimens are specimens for which there is a low probability that the sample is infectious, such as specimens for drug or alcohol testing; cholesterol testing; blood glucose level testing; prostate-specific antigens (PSA) testing; testing to monitor heart, kidney, or liver function; pregnancy testing; and testing for diagnosis of noninfectious diseases such as cancer biopsies. Exempt human or animal specimens are not subject to regulation as hazardous materials but must be packaged according to 346.326.
- e. Patient specimen means material that is collected directly from humans or animals and transported for purposes such as diagnosis and research. Patient specimens include excreta, secreta, blood and its components, tissue and tissue swabs, body parts, and specimens in transport media (such as transwabs, culture media, and blood culture bottles).
- f. Regulated medical waste, for USPS purposes, means a soft waste material (other than a sharp) derived from the medical treatment, diagnosis, immunization, or biomedical research of a human or animal. Soft medical waste includes items such as used rubber gloves, swabs, gauze, tongue depressors, and other similar material. Mark these mailpieces with identification number UN3291.
- g. Sharps medical waste, for USPS purposes, means a medical waste object that is capable of cutting or penetrating skin or packaging material and that is contaminated with a pathogen or may become contaminated with a pathogen derived from the medical treatment, diagnosis, immunization, or biomedical research of a human or animal. Sharps include used medical waste such as needles, syringes, scalpels, broken glass, culture slides, culture dishes, broken capillary tubes, broken rigid plastic, and exposed ends of dental wires. Mark these mailpieces with identification number UN3291.
- h. *Toxin* means a Division 6.1 material from a plant, animal, or bacterial source. A toxin containing an infectious substance or a toxin contained in an infectious substance must be classed as Division 6.2, described as an infectious substance, and assigned to UN2814, UN2900, or UN3373, as appropriate. A toxin known or suspected to contain a Category A infectious substance is nonmailable. A toxin known or suspected to contain a Category B infectious substance must be marked UN3373 and packaged under 346.321. Toxins from plant, animal, or bacterial sources that do not contain an infectious substance may be considered for classification as Division 6.1 toxic substances under 346.

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i. Used health care product means a medical, diagnostic, or research device or piece of equipment, or a personal care product used by consumers, medical professionals, or pharmaceutical providers, that does not meet the definition of a diagnostic specimen, biological product, regulated medical waste, or sharps waste, is contaminated with potentially infectious body fluids or materials, and is not decontaminated or disinfected to remove or mitigate the infectious hazard prior to transport.

346.2 Mailability

346.21 **General**

346.211 **Division 6.1, Toxic Substances**

The following conditions apply:

- a. *International Mail.* Division 6.1 toxic substances or poisons and irritating materials are prohibited.
- b. Domestic Mail via Air or Surface Transportation. A Division 6.1 toxic substance or poison that can qualify as an ORM-D material is permitted when packaged under the applicable requirements in Appendix C (Packaging Instruction 6A). Certain other poisonous materials are permitted to be mailed only between authorized parties under specific conditions as specified in 346.231b.

346.212 Division 6.2, Infectious Substances

- a. International Mail. Category A infectious substances are nonmailable. A material that is classified as a Category B infectious substance and that meets the definition in 346.12a2 is permitted in international mail only when sent by First-Class Package International Service or the Priority Mail International Small Flat Rate Priced Boxes using Registered Mail service; when intended for medical or veterinary use, research, or laboratory certification related to the public health; and when materials are properly prepared for mailing. The mailer must receive written approval from the office of Mailing Standards. See chapter 6 and IMM 135 for specific requirements.
- b. Domestic Mail. Infectious substances are permitted only when they are intended for medical or veterinary use, research, or laboratory certification related to public health, and when properly prepared for mailing to withstand shocks, pressure changes, and other conditions incident to ordinary handling in transit. The following substances are mailable subject to the corresponding packaging requirements:
 - (1) Category B infectious substance via First-Class Mail, Priority Mail, or Express Mail service.
 - (2) Sharps and other mailable regulated medical waste via First-Class Mail or Priority Mail service using merchandise return service
 - (3) Used health care products via First-Class Mail, Priority Mail, or Express Mail service.
 - (4) Forensic materials via First-Class Mail, Priority Mail, or Express Mail service.

- (5) Nonregulated materials via First-Class Mail, Priority Mail, Express Mail, or Package Services.
- (6) Exempt human or animal specimens via First-Class Mail, Priority Mail, Express Mail, or Package Services.

346.22 Nonmailable Class 6 Materials

When hazardous materials that are nonmailable under 346.2 and DMM 601.10.17 are found in the mailstream, the procedures in POM 139.117 must be followed if the materials present an immediate threat to persons or property. The procedures in POM 139.118 are followed when there is no immediate threat to persons or property.

346.221 Division 6.1, Toxic Substances

The following Division 6.1 materials are nonmailable:

- a. Toxic Substances. Any toxic material having an LD₅₀ for oral toxicity of 50 mg/kg or less is nonmailable, except when sent between authorized parties under the conditions permitted in <u>346.231b</u>. Examples of nonmailable toxic materials include, but are not limited to, the following:
 - (1) Aniline oil (UN1547).
 - (2) Bromoacetone (UN1569).
 - (3) 3-Chloro-4-methylphenyl isocyanate (UN2236).
 - (4) Chloropicrin (UN1580).
 - (5) Cyanogen bromide (UN1889).
 - (6) Hexaethyl tetraphosphate, liquid or solid (UN1611).
 - (7) Hydrocyanic acid aqueous solutions (UN1613).
 - (8) Methyl bromide (UN1062).
 - (9) Methyl parathion, liquid (NA3018).
 - (10) Motor fuel antiknock mixtures (UN1649).
 - (11) Organic phosphate compound (NA1955).
 - (12) Parathion (NA2783).
 - (13) Phenylcarbylamine chloride (UN1672).
 - (14) Tetraethyl dithiopyrophosphate (UN1704).
 - (15) Tetraethyl lead, liquid (NA1649).
 - (16) Tetraethyl pyrophosphate, liquid (NA3018).
 - (17) Thiophosgene (UN2474).
- b. *Irritating Materials*. All irritating materials are nonmailable. Examples include the following:
 - (1) Bromobenzyl cyanide (UN1694).
 - (2) Chloroacetophenone (UN1697).
 - (3) Diphenylamine chloroarsine (UN1698).
 - (4) Diphenylchloroarsine (UN1699).
 - (5) Tear gas (UN1700, NA1693, and UN1693), except for those containing oleoresin capsicum.

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346.222 Division 6.2, Infectious Substances

The following Division 6.2 materials are nonmailable:

a. Blood collected for the purpose of blood transfusion known or suspected to contain a Category A infectious substance.

- A biological product, culture, stock, or other biological specimen known or suspected to contain a Category A infectious substance.
 Mailpieces that exceed 4 liters (1 gallon) for liquids or 4 kg.
 (8.8 pounds) for solids are nonmailable.
- c. A toxin known or suspected to contain a Category A infectious substance.
- d. Sharps medical waste and regulated medical waste that contain a Category A infectious substance.
- Used healthcare products that contain a Category A infectious substance.

346.23 Mailable Class 6 Materials

In addition to the mailable types of Division 6.1 and 6.2 materials cited in 346.21, the following materials are permitted to be mailed only within the conditions noted.

346.231 Division 6.1, Toxic Substances

- a. ORM-D Materials. A Division 6.1 toxic substance that can qualify as an ORM-D material is mailable when all applicable conditions are met.
- b. Toxic Substances with LD_{50} Oral Toxicity of 50 mg/kg or Less. A Division 6.1 toxic substance having an LD_{50} for oral toxicity of greater than 5 mg/kg but less than or equal to 50 mg/kg is mailable only when sent between the following authorized parties and under the specified conditions:
 - (1) Toxic substances for scientific use (not outwardly or of their own force dangerous or injurious to life, health, or property) may be sent only between manufacturers, dealers, bona fide research or experimental scientific laboratories, and employees of federal, state, or local governments who have official use for such poisons and are designated by the agency head to receive or send such poisons.
 - (2) Poisonous drugs and medicines may be sent only from the manufacturer or dealer of the drugs and medicines to licensed physicians, surgeons, dentists, pharmacists, druggists, cosmetologists, barbers, and veterinarians (18 U.S.C. 1716). In limited circumstances, when the mailing is initiated by a drug manufacturer or the manufacturer's registered agent, customers may return prescription drugs to the manufacturer or its registered agent as indicated in 473.6.

346.232 Other Nonregulated Toxic Materials

Liquids and solids such as pesticides, insecticides, and herbicides that are not regulated as hazardous materials under 49 CFR are mailable subject to Postal Service quantity restrictions that are based on the toxicity of the material.

- a. *Liquids*. Restrictions are as follows, subject to the general packaging requirements in DMM 601.1–8:
 - (1) A nonregulated toxic liquid having an LD₅₀ of 50 to 500 mg/kg is permitted up to 16 fluid ounces per mailpiece.
 - (2) A nonregulated toxic liquid having an LD₅₀ of 500 to 2,500 mg/kg is permitted up to 32 fluid ounces in a glass primary receptacle, or up to 1 gallon in a non-glass primary receptacle. Only one primary receptacle is permitted per mailpiece.
 - (3) A nonregulated toxic liquid having an LD₅₀ of 2,500 to 5,000 mg/kg is permitted up to 1 gallon in a glass primary receptacle, or up to 2 gallons in a non-glass primary receptacle. Only one primary receptacle is permitted per mailpiece.
 - (4) A nonregulated toxic liquid having an LD₅₀ of greater than 5,000 mg/kg is permitted with no quantity restriction.
 - (5) External markings specifying the contents and shipping papers are not required for nonregulated toxic liquids.
- b. Solids. Restrictions are as follows:
 - (1) A nonregulated toxic solid for which an LD₅₀ rate equivalent to liquids can be established is mailable under the same quantity restrictions for Division 6.1 toxic substances specified in Packaging Instruction 6A in Appendix C and DMM 601.10.16.
 - (2) Packaging requirements for a nonregulated toxic solid are the same as those for Division 6.1 toxic substance (see Packaging Instruction 6A in Appendix C), except that up to 5 pounds may be contained in a single primary receptacle. Only one primary receptacle is permitted per mailpiece.
 - (3) External markings specifying the contents and shipping papers are not required for nonregulated toxic solids.

346.233 Division 6.2, Infectious Substances

Infectious substances, biological products, cultures and stocks, exempt human or animal specimens, patient specimens, regulated medical waste, sharps medical waste, toxins, and used health care products are permitted to be mailed within specific quantity limits and packaging conditions specified in 346.3 and DMM 601.10.17.

346.234 Nonregulated Materials

The following materials are not subject to regulation as Division 6.2 hazardous materials and are mailable when the packaging requirements specified in Packaging Instructions 6D in Appendix C and DMM 610.10.17.8 are met:

 A biological product, including an experimental or investigational product or component of a product, subject to federal approval, permit, review, or

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licensing requirements, such as those required by the Food and Drug Administration of the U.S. Department of Health and Human Services or the U.S. Department of Agriculture. A biological product known or suspected to contain a Category B infectious substance must be marked UN3373 (as shown in Exhibit 346.12a2) and packaged under 346.321. A biological product known or suspected to contain a Category A infectious substance is nonmailable.

- b. Blood collected for the purpose of blood transfusion or the preparation of blood products; blood products; plasma; plasma derivatives; blood components; tissues or organs intended for use in transplant operations; and human cell, tissue, and cellular and tissue-based products regulated under the Public Health Service Act (42 U.S.C. 264-272) or the Food, Drug, and Cosmetic Act (21 U.S.C. 332 et seg.).
- c. Blood, blood plasma, and blood components collected for the purpose of blood transfusion or the preparation of blood products and sent for testing as part of the collection process, except when the person collecting the blood has reason to believe it contains a Category B infectious substance, in which case the test sample must be shipped as a Category B infectious substance. Materials known or suspected to contain a Category A infectious substance are nonmailable.
- d. Dried blood spots, collected by applying a drop of blood to absorbent material, or dried specimens for fecal occult blood detection. (These materials are not classified as exempt human or animal specimens.)
- e. Forensic material containing a biological material, such as tissue, body fluid, excreta, or secreta, not expected to contain a Category A or Category B infectious substance and transported on behalf of a federal, state, local, or Indian tribal government agency. A forensic material known or suspected to contain a Category B infectious substance must be shipped as a Category B infectious substance. A forensic material known or suspected to contain a Category A infectious substance is nonmailable.

346.3 Packaging, Marking, Labeling, and Documentation

346.31 **Division 6.1, Toxic Substances**

Mailable toxic substances must be prepared as follows:

- a. ORM-D Materials. The applicable requirements specified in 346.211 and 346.231 must be met. Packaging Instruction 6A in Appendix C must be followed. Each mailpiece must be plainly and durably marked on the address side with "ORM-D" or "ORM-D AIR," as applicable, immediately following or below the proper shipping name (Consumer Commodity). For air transportation, each mailpiece must bear a shipper's declaration for dangerous goods (i.e., shipping paper). Mailable material sent via surface transportation must be marked on the address side as "Surface Mail Only" or "Surface Only."
- b. Optionally, mailable ORM-D material may be marked with an approved DOT limited quantity square-on-point marking (see Exhibit 325b). The plain square-on-point marking is used for shipments sent by surface

transportation, and the square-on-point marking including the symbol "Y" superimposed in the center is used for shipments sent by air transportation. The following also apply:

- (1) Markings must be durable, legible, and readily visible.
- (2) The marking must be applied on at least one side or one end of the outer packaging. The border forming the square-on-point must be at least 2 mm in width, and the minimum dimension of each side must be 100 mm, unless the package size requires a reduced size marking of no less than 50 mm on each side.
- (3) For surface transportation, the top and bottom portions of the square-on-point and the border forming the square-on-point must be black, and the center must be white or of a suitable contrasting background. Surface shipments containing qualifying ORM-D material bearing the square-on-point limited quantity marking are not required to be marked with the shipping name and identification number.
- (4) For transportation by aircraft, the top and bottom portions of the square-on-point and the border forming the square-on-point must be black, and the center must be white or of a suitable contrasting background. The symbol "Y" must be black, located in the center of the square-on-point, and clearly visible. Mailpieces intended for transport by air must also be marked with the proper shipping name "Consumer Commodity" and identification number "ID8000." Each mailpiece must also bear an approved DOT Class 9 hazardous material warning label (see Exhibit 325c).
- c. Toxic Substances with LD₅₀ Oral Toxicity of 50 mg/kg or Less. The applicable requirements specified in 346.211 and 346.231 must be met. Packaging Instruction 6B in Appendix C must be followed. Each mailpiece must be plainly and durably marked on the address side with the proper shipping name and UN number of the material (unless exempted by DMM 601.11.11.2). Mailable materials sent via surface transportation must be marked on the address side as "Surface Mail Only" or "Surface Only." For air or surface transportation, each mailpiece must bear a shipping paper.

346.32 **Division 6.2, Infectious Substances**

The proper packaging, marking, labeling, and documentation for mailable Division 6.2 materials are described in the following sections.

346.321 Category B Infectious Substances

Note: See Packaging Instructions 6C in Appendix C and DMM 601.10.17.4.

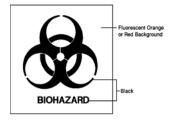
A material that is classified as a Category B infectious substance and that meets the definition in 346.12a2 must be triple-packaged, meeting the packaging requirements in 49 CFR 173.199, and sent with First-Class Mail, Priority Mail, or Express Mail service. Each primary receptacle containing a liquid must be leakproof and surrounded by absorbent material sufficient to protect the primary receptacle and absorb the total amount of liquid should

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the primary receptacle leak or break. Each primary receptacle containing a solid must be siftproof. Secondary containers for liquids must be leakproof. Secondary containers for solids must be siftproof. The primary and secondary packaging must be enclosed in a rigid outer shipping container. A single primary receptacle must not contain more than 1 liter (34 ounces) of a liquid specimen or 4 kg (8.8 pounds) of a solid specimen. Two or more primary receptacles whose combined volume does not exceed 4 liters (1 gallon) for liquids or 4 kg (8.8 pounds) for solids may be enclosed in a single secondary container. In addition:

- a. The secondary container must be marked with the international biohazard symbol shown in Exhibit 346.321.
- b. The primary receptacle or secondary packaging must be capable of withstanding, without leakage, an internal pressure producing a pressure differential of not less than 95 kPa (0.95 bar, 14 psi) in the range of -40°F to 130°F (-40°C to 55°C).
- c. All mailpieces sent under 346.322 must be marked on the address side with the shipping name "Biological Substance, Category B" and "UN3373" (as shown in <u>Exhibit 346.12a2</u>) and as outlined in 49 CFR 173.199(a)(5). Regulated medical waste and sharps medical waste as defined in <u>346.12f</u> and <u>346.12g</u> must be marked UN3291. See <u>346.322</u>.
- d. Orientation arrows are not required on these mailpieces but may be used.
- e. The outer packaging must show the name and telephone number of a person who is knowledgeable about the material shipped and has comprehensive emergency response and incident mitigation information, or of someone who has immediate access to the person with such knowledge and information.

Exhibit 346.321
International Biohazard Symbol



346.322 Sharps Waste and Other Mailable Regulated Medical Waste

Note: See Packaging Instructions 6D in Appendix <u>C</u> and DMM 601.10.17.6.5.

Regulated medical waste and sharps medical waste known or suspected to contain a Category A infectious substance are nonmailable. Regulated medical waste and sharps medical waste as defined in 346.12f and 346.12g and containing materials classified as Category B infectious substances must be marked UN3291 and are permitted for mailing only using

merchandise return service (see DMM 507.10.0) with First-Class Mail or Priority Mail service, subject to the following requirements:

- a. Authorization. Each vendor of a complete regulated medical waste or sharps waste mailing container system (including all component parts required to safely mail such waste to a storage or disposal facility) must obtain authorization from the Postal Service prior to mailing. Before applying for authorization, each type of mailing container system must be tested and certified under the standards in 346.322d by an independent testing facility. The vendor in whose name the authorization is being sought must submit a written request to the manager of Mailing Standards at Postal Service Headquarters (see DMM 608.8.0 for address). The request for authorization must contain the following:
 - (1) An irrevocable \$50,000 surety bond or letter of credit as proof of sufficient financial responsibility to cover disposal costs if the vendor ceases doing business before all its waste container systems are disposed of or to cover cleanup costs if spills occur while the containers are in Postal Service possession. The surety bond or letter of credit must be issued in the name of the vendor seeking the authorization and must name the Postal Service as the beneficiary or obligee. Vendors that market their containers to distributors are responsible for disposal and cleanup costs attributed to those containers. In addition, vendors must provide a list of distributors, including firm names, addresses, and telephone numbers, to the Postal Service on request.
 - (2) Address of the headquarters or general business office of the vendor seeking the authorization.
 - (3) Name, address, and phone number of each storage and disposal site
 - (4) List of all types of mailing container systems to be covered by the request, a complete sample of each mailing container system, and proof of package testing certifications performed by the independent testing facility that subjected the packaging materials to the testing requirements in 346.322d.
 - (5) Copy of the proposed waste shipping paper to be used with each mailing container system.
 - (6) 24-hour toll-free telephone number for emergencies.
 - (7) List of the types of waste to be mailed for disposal in each mailing container system.
 - (8) Copy of the merchandise return service label to be used with each mailing container system and verification that the merchandise return service permit fee and accounting fee have been paid.
 - (9) Address of the Post Office or postage-due unit where the containers are delivered.

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b. Packaging. Regulated medical waste and sharps medical waste that also meet the definition of a Category A infectious substance are nonmailable, except for medical professional packages identified in 346.322b7, which may not weigh more than 35 pounds. A medical waste material treated by steam sterilization, chemical disinfections, or other appropriate method so that it no longer contains a Category A or Category B infectious substance must be packaged under 346.325. The packaging for regulated medical waste and sharps medical waste containing or suspected of containing a Category B infectious substance is subject to the following standards:

- (1) Regulated medical waste and sharps medical waste meeting the definitions in 346.12f and 346.12g must be collected in a rigid, securely sealed, and leakproof primary receptacle. For sharps waste, the primary receptacle must also be puncture-resistant and may not have a maximum capacity that exceeds 3 gallons in volume. For regulated medical waste, the primary receptacle may not have a maximum capacity that exceeds 5 gallons in volume. Each primary receptacle may not contain more than 50 ml (1.66 ounces) of residual waste liquid. Each primary receptacle must display the international biohazard symbol shown in Exhibit 346.321. Package testing results must show that the contents did not penetrate through the primary container during package testing and that the primary container can maintain its integrity at temperatures as low as 0°F and as high as 120°F (–18°C to 49°C).
- (2) The primary receptacle must be packaged within a watertight secondary container or containment system. The secondary container may consist of more than one component. If one of the components is a plastic bag, the bag must be at least 4 mil in thickness and must be used in conjunction with a fiberboard box. A plastic bag by itself does not meet the requirement for a secondary container. Several primary receptacles may be enclosed in a secondary container. The primary receptacle(s) must fit securely and snugly within the secondary container to prevent breakage during ordinary processing.
- (3) The secondary container must be enclosed in a strong outer shipping container constructed of 200-pound grade corrugated fiberboard. The joints and flaps of the outer shipping container must be securely taped, glued, or stitched to maintain the integrity of the container. When tape or glue is used to secure an outer shipping container, the material must be water-resistant. Fiberboard boxes with interlock bottom flaps (i.e., easy-fold) are not permitted as outer shipping containers unless reinforced with water-resistant tape. The secondary container must fit securely and snugly within the outer shipping container to prevent breakage during ordinary processing.

- (4) There must be enough material within the primary receptacle to absorb and retain three times the total liquid allowed within the primary receptacle (150 ml per primary receptacle) in case of leakage.
- (5) Each mailpiece must not weigh more than 25 pounds. The container's maximum allowable weight must be printed on the outside of the box and on the assembly and closure instructions included with each mailpiece. The mailpiece must be tested at the maximum allowable weight identified by the vendor.
- (6) In each mailing container system, the authorized vendor must include a step-by-step instruction sheet that clearly details the proper sequence and method of container system assembly prior to mailing to prevent package failure during transport due to improper assembly. The instruction sheet must also include a customer service telephone number, or provide specific information on where such a telephone number is located elsewhere on the container system, for third-party end users to contact if they have assembly questions or find a component part is missing.
- (7) Medical professional packages are intended for use by small medical offices, but they are not limited to use by medical offices only. One primary receptacle larger than 5 gallons in volume may be used for mailing pre-primary sharps receptacles (sharps receptacles normally used in doctors' offices) and other regulated medical waste under the following conditions:
 - (a) The mailpiece must meet all the requirements in 346.32 except for the primary receptacle capacity limits of 346.322b1.
 - (b) Only rigid, securely closed, puncture- and leak-resistant pre-primary sharps receptacles that meet or exceed Occupational Safety and Health Administration (OSHA) standards as identified in 29 CFR 1910.1030 may be placed inside the primary receptacle. Each pre-primary sharps container may contain no more than 50 ml (1.66 ounces) of residual waste liquid. Several pre-primary sharps receptacles may be enclosed in the single primary receptacle.
 - (c) Multiple tie-closed plastic bags of regulated medical waste may be placed inside the single primary receptacle.
 - (d) The primary receptacle must be lined with a plastic bag at least 4 mil in thickness and must include sufficient absorbent material within the liner to absorb all residual liquid in the primary receptacle.
 - (e) The mailpiece must not weigh more than 35 pounds.

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c. *Mailpiece Labeling, Marking, and Documentation*. Regulated medical waste and sharps waste must meet the following requirements:

- (1) Each primary receptacle and outer shipping container must bear a label, which cannot be detached intact, showing the following:
 - (a) The company name of the vendor to which the mailing authorization is issued.
 - (b) The USPS Authorization Number.
 - (c) The container ID number (or unique model number) signifying that the packaging material is certified and that the vendor obtained the authorization required by 346.322a.

Place the label on the top or on a side of the container.

- (2) The primary receptacle(s) and the outer shipping container must bear the international biohazard symbol in black with either a fluorescent orange or fluorescent red background as shown in Exhibit 346.321. The symbol on the outer shipping container must be at least 3 inches high and 4 inches wide.
- (3) Each mailpiece must have a four-part waste shipping paper. The shipping paper must be affixed to the outside of the mailpiece in an envelope or similar carrier that can be easily opened and resealed to allow review of the document. The shipping paper must comply with all applicable requirements imposed by the laws of the state from which the container system is mailed. At a minimum, the information in Exhibit 346.322c3 must be on the shipping paper.
- (4) The outer shipping container must bear a properly prepared merchandise return service label (see DMM 507.10.0). The merchandise return service permit must be held in the same name as that of the authorized medical waste vendor.
- (5) The outer shipping container must be marked on two opposite side walls with the package orientation marking in 49 CFR 173.312 to identify the proper upright position of the mailpiece during handling.
- (6) Mailpieces containing regulated medical waste or sharps waste must be marked on the address side with the correct UN number and proper shipping name (e.g., "Regulated Medical Waste, UN3291" or "Regulated Medical Waste-Sharps, UN3291").
- (7) Vendors must retrieve mailpieces held at processing facilities due to improper labeling, such as no return address, or due to improperly completed shipping papers.
- (8) For medical professional packages, the additional marking "Medical Professional Packaging" must be clearly printed in lettering at least 2 inches high on the address side of the outer shipping container.

Exhibit 346.322c3

Shipping Paper for Regulated Medical Waste and Sharps Waste Containers

Section		Information Required			
1.	Generator (Mailer)	 a. Name. b. Complete address (not a Post Office box). c. Telephone number. d. Description of contents of mailing container. "Regulated Medical Waste" or "Regulated Medical Waste-Sharps" is required as appropriate. e. Date container was mailed. f. State permit number of approved facility in which contents are to be disposed of. 			
2.	Destination Facility (Disposal Site)	Complete address (not a Post Office box).			
3.	Generator's (Mailer's) Certification	The following certification statement must be printed on the shipping paper: "I certify that this container has been approved for the mailing of [insert either "regulated medical waste" or "sharps waste," as appropriate], has been prepared for mailing in accordance with the directions for that purpose, and does not contain excess liquid or nonmailable material in violation of the applicable Postal Service regulations. I AM AWARE THAT FULL RESPONSIBILITY RESTS WITH THE GENERATOR (MAILER) FOR ANY VIOLATION OF 18 U.S.C. 1716 WHICH MAY RESULT FROM PLACING IMPROPERLY PACKAGED ITEMS IN THE MAIL. I also certify that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and in proper condition for carriage by air according to the national governmental regulations." This statement must be followed by printed or typewritten name of generator (mailer), signature of generator, and date signed.			
4.	Destination Facility (Storage or Disposal Site)	The following certification statement of receipt, treatment, and disposal must be printed on the shipping paper: "I certify that the contents of this container have been received, treated, and disposed of in accordance with all local, state, and federal regulations." This statement must be followed by printed or typewritten name of an authorized recipient at destination facility, signature of authorized recipient, and date signed.			
5.	Transporter Intermediate Handler Other Than the Postal Service (If Different From Destination Facility)	 a. Name. b. Complete address (not a Post Office box). c. Printed or typewritten name of transporter or intermediate handler. d. Signature of transporter or intermediate handler and date signed. 			
6.	Serialized Waste Shipping Papers	Each waste shipping paper or mail disposal service shipping record must be serialized using a unique numbering system for identification purposes.			
7.	Comment Area	Each shipping paper must contain an area designated for entering comments or noting discrepancies.			
8.	Completion and Distribution of Waste Shipping Paper	Each shipping paper must contain instructions for properly completing the four-part form. Copies of the form must be distributed as follows: a. One copy must be kept by generator (mailer). b. One copy must be kept by transporter or intermediate handler for 90 days. c. One copy must be kept by destination facility for 90 days. d. One copy must be mailed to generator by destination facility.			
9.	Emergency Telephone Number	Each shipping paper must bear the following statement with appropriate information: "IN CASE OF EMERGENCY, OR THE DISCOVERY OF DAMAGE OR LEAKAGE, CALL 1-800-###-####."			

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d. Package Testing. Vendors must submit to the manager of Mailing Standards (see DMM 608.8.0 for address) package testing results from an independent testing facility for each package for which the vendor is requesting authorization. In addition, vendors must submit package testing results from an independent testing facility when the design of a container system changes or every 24 months, whichever occurs first. The test results must show that, if every mailpiece prepared for mailing were subject to the environmental and test conditions in 49 CFR and the additional test requirements in 346.322e, no contents would be released into the environment and the effectiveness of the packaging would not be significantly reduced. The Postal Service may require proof of accreditation or other documentation to support the credentials of an independent testing facility.

Packages tested for approval as medical professional packages may not be tested using pre-primary containers that are currently or have previously been approved as Postal Service primary containers. In addition, test reports must identify by brand name the pre-primary containers that were used during testing.

- e. *Testing Criteria.* Each mailpiece must pass each of the tests described below:
 - (1) Leakproof Test. The test must be conducted on one primary receptacle with the lid in place, without the secondary and outer packaging. The test duration must be at least 5 minutes and must be conducted at 20 kPa (3 psi). The pass/fail criterion is as follows: no air leakage from anywhere other than the closure of the primary receptacle. Air leakage at the closure is not considered a failure if the primary receptacle passes the test for watertightness as determined by placing 50 ml of deionized water into the primary receptacle, securing the closure, and then turning the container on its side and observing for any evidence of leakage. Any evidence of water leaking from the primary receptacle is a failure.
 - (2) Stacking Test. One mailpiece must withstand the test in 49 CFR 178.606. The dynamic compression test must be conducted on the empty, unsealed mailpiece assembled for mailing, without the primary receptacle(s). The test mass is the vendor-identified maximum weight, not to exceed 25 pounds, as indicated on the outer shipping container and on the assembly and closing instructions. A compensation factor of 1.5 must be used to compute the test load, based on the vendor-identified weight. The pass/fail criteria are as follows: no buckling of the sidewalls sufficient to cause damage to the contents in the primary receptacle, and in no case does the deflection exceed 1 inch.
 - (3) Vibration Test. One mailpiece filled with sharps or other regulated medical waste must withstand the test in 49 CFR 178.608. The test mailpiece is filled with sharps or other regulated medical waste to the vendor-identified maximum weight, not to exceed 25 pounds, as indicated on the outer shipping container and on

- the assembly and closing instructions. The test sample is prepared as it would be for mailing. The pass/fail criterion is as follows: no rupture, cracking, or splitting of any primary receptacle.
- (4) Wet Drop Test. Five mailpieces filled with sharps or other regulated medical waste must withstand the test in 49 CFR 178.609e. Each test mailpiece is filled with sharps or other regulated medical waste to the vendor-identified maximum weight, not to exceed 25 pounds, as indicated on the outer shipping container and on the assembly and closing instructions included with each mailpiece. Each mailpiece is prepared as it would be for mailing and subjected to a water spray as described in the test. A separate, untested mailpiece is used for each drop orientation: top, longest side, shortest side, and corner. The pass/fail criteria are as follows: no rupture, cracking, or splitting of any primary receptacle, and no contents may penetrate into or through the body or lid of any primary receptacle.
- (5) Cold Drop Test. Five mailpieces filled with sharps or other regulated medical waste must withstand the test in 49 CFR 178.609f. Each test mailpiece is filled with sharps or other regulated medical waste to the vendor-identified maximum weight, not to exceed 25 pounds, as indicated on the outer shipping container and on the assembly and closing instructions included with each mailpiece. Each mailpiece is prepared as it would be for mailing and chilled as described in the test. A separate, untested mailpiece is used for each drop orientation: top, longest side, shortest side, and corner. The pass/fail criteria are as follows: no rupture, cracking, or splitting of any primary receptacle, and no contents may penetrate into or through the body or lid of any primary receptacle.
- (6) Impact Test. One mailpiece filled with sharps or other regulated medical waste must withstand the test in 49 CFR 178.609h. The test mailpiece is filled with sharps or other regulated medical waste to the vendor-identified maximum weight, not to exceed 25 pounds, as indicated on the outer shipping container and on the assembly and closing instructions included with each mailpiece. The mailpiece is prepared as it would be for mailing. The pass/fail criteria are as follows: no rupture, cracking, or splitting of any primary receptacle, and no contents may penetrate into or through the body or lid of any primary receptacle.
- (7) Puncture-Resistant Test. Package testing results must show that, during all of the previous tests, the contents did not penetrate through the primary receptacle.
- (8) Temperature Test. Package testing results must show that each primary receptacle maintained its integrity when exposed to temperatures as low as 0°F and as high as 120°F (–18°C to 49°C).

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(9) Absorbency Test. Package testing results must show that the primary receptacle(s) contain enough absorbent material to absorb three times the total liquid allowed within the primary receptacle in case of leakage. Absorbency is determined by pouring 150 ml of deionized water into the primary receptacle(s), then turning the receptacle(s) upside down and observing for any evidence of free liquid not absorbed on contact. Any evidence of free liquid is a failure.

- (10) Watertight Test. Package testing results must show that no leakage occurred when 50 ml of deionized water was placed into the secondary containment system and the entire system was turned upside down for 5 minutes.
- f. Suspension of Authorization. The Postal Service may suspend a vendor's authorization based on information that a mailpiece no longer meets the standards for mailing sharps medical waste and regulated medical waste containers, or that the mailpiece poses an unreasonable safety risk to Postal Service employees or the public. The suspension can be made immediately, making the mailpiece nonmailable immediately. The vendor may contest a decision to suspend authorization by writing to the manager of Mailing Standards (see DMM 608.8.0 for address) within 7 days from the date of the letter of suspension. The appeal should provide evidence demonstrating why the decision should be reconsidered. Any order suspending authorization remains in effect during an appeal or other challenge. When a vendor is notified that its authorization to mail sharps or other regulated medical waste containers has been suspended, the vendor must immediately do the following:
 - Recall all identified containers.
 - (2) Notify all customers that they cannot mail the identified containers.
 - (3) Suspend sales and distribution of all identified containers.
 - (4) Collect the identified containers from distributors, consumers, and the Postal Service without using the mail and in accordance with all federal and state regulations.

346.323 Used Health Care Products

Note: See Packaging Instructions 6E in Appendix C and DMM 601.10.17.6.

A used health care product known or reasonably suspected to contain a Category A material is nonmailable. A used health care product not suspected to contain an infectious material, or that is known or suspected to contain a Category B infectious substance and is being returned to the manufacturer or manufacturer's designee is mailable with First-Class Mail, Priority Mail, or Express Mail service subject to the following packaging requirements:

a. Each used health care product must be drained of liquid to the extent possible and placed in a watertight primary receptacle designed and constructed to ensure that it remains intact under normal conditions of transport. For a used health care product capable of cutting or penetrating skin or packaging material, the primary receptacle must be

- capable of retaining the product without puncture of the packaging under normal conditions of transport. The primary receptacle must be marked with the international biohazard symbol shown in Exhibit 346.321.
- b. Each primary receptacle must be placed inside a watertight secondary container designed and constructed to ensure that it remains intact under normal conditions of transport. The secondary container must also be marked with the international biohazard symbol shown in Exhibit 346.321.
- c. The secondary container must be placed inside an outer shipping container with sufficient cushioning material to prevent movement between the secondary container and the outer shipping container. An itemized list of the contents of the primary receptacle and information concerning possible contamination with a Division 6.2 material, including its possible location on the product, must be placed between the secondary container and the outer shipping container. A shipping paper and a content marking on the outer shipping container are not required.

346.324 Forensic Material in Category B

Note: See Packaging Instructions 6F in Appendix C and DMM 601.10.17.7.

Forensic material containing a biological material, such as tissue, body fluid, excreta, or secreta, and sent on behalf of a federal, state, local, or Indian tribal government agency must be packaged under 346.325 when it is not known or suspected to contain a Category A or Category B infectious substance. Forensic material known or suspected to contain a Category A infectious substance is nonmailable. Forensic material known or suspected to contain a Category B infectious substance as identified in 346.321 is mailable with First-Class Mail, Priority Mail, or Express Mail service when triple-packaged in a primary receptacle, secondary container, and a rigid outer shipping container as follows:

- a. The forensic material must be held within a securely sealed primary receptacle. The primary receptacle must be surrounded by sufficient absorbent material (for liquids) and cushioning material to protect the primary container from breakage. The absorbent material must be capable of taking up the entire liquid contents of the primary receptacle in case of leakage. The primary receptacle must be marked with the international biohazard symbol shown in Exhibit 346.321.
- b. The primary receptacle and the absorbent and cushioning material must be enclosed in a watertight and securely sealed secondary container. The secondary container must also display the international biohazard symbol shown in <u>Exhibit 346.321</u>.
- c. The secondary container must be firmly and snugly packed within a strong outer shipping container that is securely sealed. A shipping paper and a content marking on the outer shipping container are not required.

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346.325 Nonregulated Materials

Note: See Packaging Instructions 6G in Appendix € and DMM 601 10 17 8

Nonregulated materials as defined in 346.234 are not subject to regulation as hazardous materials but must be properly packaged when presented for mailing. Regulated medical waste and sharps medical waste must be packaged and mailed under 346.322, and used health care products must be packaged and mailed under 346.323. Exempt human and animal specimens must be packaged under 346.326. Nonregulated materials are mailable as First-Class Mail, Priority Mail, Express Mail, or Package Services mail. Such materials must be held within a securely sealed primary receptacle. The primary receptacle must be surrounded by sufficient absorbent material (for liquids) and cushioning material to protect the primary receptacle from breakage. The absorbent material must be capable of taking up the entire liquid contents of the primary receptacle in case of leakage. Either the primary receptacle or the inner packaging must be marked with the international biohazard symbol shown in Exhibit 346.321. The primary receptacle and the absorbent and cushioning material must be snugly enclosed in a rigid outer shipping container that is securely sealed. A shipping paper and a content marking on the outer shipping container are not required. Nonregulated material specimens and biological products are subject to the following packaging standards:

- a. Liquid Patient Specimens and Biological Products. Mailers must package a liquid nonregulated patient specimen, a forensic specimen, or a biological product (such as polio vaccine) as follows:
 - Not exceeding 50 ml. A patient specimen or biological product consisting of 50 ml or less per mailpiece must be packaged in a securely sealed primary receptacle. Two or more primary receptacles whose combined volume does not exceed 50 ml may be enclosed within a single mailpiece. Sufficient absorbent material and cushioning material to withstand shock and pressure changes must surround the primary receptacle(s), or be otherwise configured to take up the entire liquid contents in case of leakage. The primary receptacle(s) and the absorbent cushioning must be enclosed in a secondary container with a leakproof barrier that can prevent failure of the secondary container if the primary receptacle(s) should leak during transport. The secondary container must be securely sealed, and it may serve as the outer shipping container if it has sufficient strength to withstand ordinary postal processing. The secondary container must be marked with the international biohazard symbol shown in Exhibit 346.321, except when the secondary container also serves as the outer shipping container. In that case, the biohazard symbol must appear on the inner packaging or on the primary container. A shipping paper and a content marking on the outer shipping container are not required.

- (2)Exceeding 50 ml. A liquid patient specimen, forensic material, or biological product that exceeds 50 ml must be packaged in a securely sealed primary receptacle. A single primary receptacle must not contain more than 500 ml of specimen. Two or more primary receptacles whose combined volume does not exceed 500 ml may be enclosed in a single secondary container. Sufficient absorbent material and cushioning material to withstand shock and pressure changes must surround the primary receptacle(s), or be otherwise configured to take up the entire liquid contents in case of leakage. The primary receptacle(s) and the absorbent cushioning must be enclosed in a secondary container with a leakproof barrier that can prevent failure of the secondary container if the primary receptacle(s) should leak during transport. The secondary container cannot serve as the outer shipping container. The secondary container must be marked with the international biohazard symbol shown in Exhibit 346.321. The secondary container must be securely and snugly enclosed in a fiberboard box or container of equivalent strength that serves as the outer shipping container. A shipping paper and a content marking on the outer shipping container are not required.
- b. Solid or Dry Specimen. A solid or dry specimen, such as a saliva swab, blood spot, fecal smear, culture or stock, or forensic material, must be completely dried before packaging in a mailing container or envelope. Cushioning material to withstand shock and pressure changes is required only if the dry specimen is placed in a breakable primary receptacle. When required, the cushioning material must surround the primary receptacle. The primary receptacle (and cushioning material, if required) must be enclosed in a secondary container with a siftproof barrier that can prevent failure of the secondary container if the primary receptacle breaks during shipment. The secondary container must be securely sealed, and it may serve as the outer shipping container if it has sufficient strength to withstand ordinary postal processing. The secondary container must be marked with the international biohazard symbol shown in Exhibit 346.321, except when the secondary container also serves as the outer shipping container. In that case, the biohazard symbol must appear either on the inner packaging or on the primary receptacle. A shipping paper and a content marking on the outer shipping container are not required.

346.326 Exempt Human or Animal Specimens

Note: See Packaging Instructions 6H in Appendix C and DMM 601.10.17.9.

Exempt human or animal specimens as defined in 346.12d are not subject to regulation as hazardous materials but when presented for mailing must be triple-packaged in leakproof (for liquids) or siftproof (for solids) primary receptacles. Sufficient cushioning and absorbent materials must surround each primary receptacle containing liquid. Secondary containers for liquids must be leakproof. Secondary containers for solids must be siftproof. The primary and secondary packaging must be enclosed in a rigid outer shipping

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container. A single primary receptacle must not contain more than 500 ml of a liquid specimen or 500 grams of a solid specimen. Two or more primary receptacles whose combined volume does not exceed 500 ml (for liquids) or 500 grams (for solids) may be enclosed in a single secondary container. The secondary container cannot serve as the outer shipping container. The secondary container must be marked with the international biohazard symbol shown in Exhibit 346.321. The secondary container must be securely and snugly enclosed in a fiberboard box or container of equivalent strength that serves as the outer shipping container. A shipping paper is not required. The outer shipping container must be marked on the address side with the words "Exempt human specimen" or "Exempt animal specimen," as appropriate. In addition, at least one surface of the outer packaging must have a minimum dimension of 3.9 inches by 3.9 inches (100 mm by 100 mm). Exempt human and animal specimens are mailable as First-Class Mail, Priority Mail, Express Mail, or Package Services mail.

346.327 Proper Packaging of Mailable Materials

All mailable materials as identified in <u>346.212</u> must be properly packaged. <u>Exhibit 346.327</u> lists the specific reverence in <u>346</u> under which each type of mailable material must be packaged.

Exhibit 346.327

Packaging References for Mailable Materials, Infectious Substances (Hazard Class 6, Division 6.2)

	Packaging Standards ¹			
Material Being Mailed	Nonregulated Categor		ry A Category B	
Blood for Transfusion	346.325	nm	346.321	
Biological Product	346.325	nm	346.321	
Culture or Stock	346.325	nm	346.321	
Patient Specimen	346.325	nm	346.321	
Exempt Human or Animal Specimen	346.326	n/a	n/a	
Forensic Material	346.325	nm	346.321	
Regulated Medical Waste	346.322	nm	346.322	
Sharps Waste	346.322	nm	346.322	
Toxin ²	346.31	nm	346.321	
Treated Medical Waste	346.325	n/a	n/a	
Used Health Care Product	346.323	nm	346.323	

^{1.} nm = Nonmailable. n/a = Not applicable.

Toxin means a Division 6.1 material from a plant, animal, or bacterial source. A toxin containing an infectious substance or a toxin contained in an infectious substance must be classified as Division 6.2; described as an infectious substance; and assigned to UN2814, UN2900, or UN3373, as appropriate. A Division 6.1 toxin that can qualify as an ORM-D material is permitted when packaged under 346.231 or 346.31.

346.4 **Damaged Parcels**

If a mailpiece containing a Class 6 material is found to be damaged or leaking during Postal Service handling, the incident must be reported in accordance with POM 139.117 and 139.118 and Handbook EL-812, Hazardous Materials and Spill Response (in Part VII, "Response to Hazardous Material Incidents and Emergencies," see the section titled "Hazardous Materials Incident Reports"), as appropriate. The local Postal Service safety officer (or designee) must immediately initiate the spill response procedures in Handbook EL-812. For spills involving infectious substances (etiologic agents), the following containment and cleanup steps must also be followed:

- a. Wear rubber gloves throughout the spill cleanup procedure.
- b. Surround the leaking package with absorbent material.
- c. Place the leaking package in another box and seal the box.
- d. Place the sealed box in a plastic bag and seal the bag.
- e. Flood affected surfaces and rinse rubber gloves with household chlorine bleach, diluted 1 ounce to 1 gallon of water, and let stand for 5 minutes. Use caution with the chlorine bleach because it is a mildly corrosive oxidizer. Wipe surfaces dry with an absorbent material, place the absorbent material in a plastic bag, and incinerate.
- f. Report the damaged parcel to the Centers for Disease Control and Prevention (CDC) at the telephone number listed in 246.
- g. Never dispose of etiologic agents in the trash. Contact the area environmental compliance specialist for specific information on the appropriate disposal procedures.

347 Radioactive Materials (Hazard Class 7)

347.1 **Definition**

Radioactive material is defined in 49 CFR 173.403 as any material containing radionuclides where both the activity concentration and the total activity in the consignment exceed the values specified in the table in 49 CFR 173.436 or values derived according to the instructions in 49 CFR 173.433.

347.2 **Mailability**

The following conditions apply:

- a. International Mail. Radioactive material is prohibited in international mail if required to bear a Class 7 Radioactive White-I, Radioactive Yellow-II, or Radioactive Yellow-III hazardous materials warning label (see Exhibit 325a). See IMM 135 for the specific admissibility requirements that are applicable to international shipments of radioactive material. Mailable radioactive materials must be sent as registered air letters.
- b. *Domestic Mail via Air Transportation*. All radioactive material is prohibited per DMM 601.10.18.
- Domestic Mail via Surface Transportation. Radioactive material is prohibited if it is required to bear a Class 7 Radioactive White-I, Radioactive Yellow-II, Radioactive Yellow-III hazardous materials

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warning label, or the Fissile label (see <u>Exhibit 325a</u>). Mailable radioactive materials may not have an activity content that exceeds the limits in <u>Exhibit 347.22</u> (which are one-tenth of the values specified in 49 CFR 173.425), and must be one of the following materials (proper shipping names and/or UN identification numbers in 49 CFR 172.101):

- A radioactive material eligible to be shipped as a limited quantity under 49 CFR 172.101, Radioactive material, excepted package — Limited quantity of material, UN2910.
- (2) An excepted instrument, article, or device including an instrument and manufactured article (such as a clock, electronic tube, or apparatus) or a similar device that has a radioactive material in gaseous or nondispersible solid form as a component part, Radioactive material, excepted package instruments or articles, UN2911.
- (3) An excepted article containing natural uranium or thorium, including manufactured articles in which the sole radioactive material is natural or depleted uranium or natural thorium, Radioactive material, excepted package — articles manufactured from natural uranium or depleted uranium or natural thorium, UN2909.

347.21 Nonmailable Radioactive Materials

Any package bearing, or required to bear, one of the Class 7 hazardous materials warning labels for radioactive materials shown in <u>Exhibit 325a</u> is nonmailable under any conditions. Report nonmailable materials found in the mailstream to the appropriate officials in accordance with POM 139.117 and 139.118, as applicable. See 347.5 for emergency procedures.

347.22 Mailable Radioactive Materials

As stated in 347.2, the only categories of radioactive material that are mailable in international mail or in domestic mail via surface transportation are those that do not have an activity level exceeding the limits in Exhibit 347.22 and are eligible under 49 CFR to be shipped as excepted packages for limited quantities; excepted packages for instruments and articles; and excepted packages for articles containing natural uranium or thorium. The mailer must provide accurate documentation of the activity limits, which must not exceed those specified in Exhibit 347.22.

Activity Limits for Mailable Instruments, Articles, and Limited Quantity Radioactive Materials

Nature of Contents	Limits for Each Instrument or Article ¹	Package Limits ¹	Materials Package Limits ¹
Solids:			
Special form	10 ⁻³ A ¹	0.1 A ¹	10 ⁻⁴ A ¹
Normal form	10 ⁻³ A ²	0.1 A ²	10 ⁻⁴ A ²

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Activity Limits for Mailable Instruments, Articles, and Limited Quantity

Radioactive Materials

Nature of Contents	Limits for Each Instrument or Article ¹	Package Limits ¹	Materials Package Limits ¹
Liquids:			
Tritiated water:			
<0.0037 TBq/liter (0.1 Ci/L)			3.7 TBq (100 Ci)
0.0037 TBq to 0.37 TBq/L			0.37 TBq (10 Ci)
(0.1 Ci to 1.0 Ci/L)			
>0.037 TBq/L (1.0 Ci/L)			0.0037 TBq (0.1 Ci)
Other Liquids:	10 ⁻⁴ A ²	10 ⁻² A ²	10 ⁻⁵ A ²
Gases:			
Tritium ²	2 x 10 ⁻³ A ²	2 x 10 ⁻² A ²	2 x 10 ⁻³ A ²
Special form	10 ⁻⁴ A ¹	10 ⁻³ A ¹	10 ⁻⁴ A ¹
Other form	10 ⁻⁴ A ²	10 ⁻³ A ²	10 ⁻⁴ A ²

^{1.} For mixture of radionuclides, see 49 CFR 173.433(d).

347.3 Packaging

The following packaging requirements apply:

- a. Limited Quantities (49 CFR 173.421). Radioactive materials whose activity per package does not exceed the limits specified in Exhibit 347.22 are excepted from specification packaging, marking, and labeling requirements. All applicable conditions for Packaging Instruction 7A in Appendix C must be met.
- b. Instruments and Articles (49 CFR 173.424). Instruments and manufactured articles (including clocks, electronic tubes, or apparatus) or similar devices having radioactive materials in gaseous or nondispersible solid form as a component part (whose activity level does not exceed the limits specified in Exhibit 347.22) are excepted from specification packaging, marking, and labeling requirements. All applicable conditions for Packaging Instruction 7A in Appendix C must be met.
- c. Excepted Articles Containing Uranium or Thorium (49 CFR 173.426).

 Manufactured articles in which the sole radioactive material is natural or depleted uranium or natural thorium (whose activity level does not exceed the limits specified in Exhibit 347.22) are excepted from specification packaging, marking, and labeling requirements. All applicable conditions for Packaging Instruction 7A in Appendix C must be met.

These values also apply to tritium in activated luminous paint and tritium adsorbed on solid carriers.

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347.4 Marking

The outside of the inner receptacle or the outside of the secondary packaging must be marked "Radioactive." The address side of the mailpiece must clearly and prominently display one of the following markings, as applicable:

- a. Mailable Limited Quantity Shipments. "This package conforms to the conditions and limitations specified in 49 CFR 173.421 for radioactive material, excepted package—limited quantity of material, UN2910, and is within Postal Service activity limits for mailing."
- b. Mailable Instruments and Articles. "This package conforms to the conditions and limitations specified in 49 CFR 173.424 for radioactive material, excepted package—instruments or articles, UN2911, and is within Postal Service activity limits for mailing."
- c. Mailable Excepted Articles Containing Uranium or Thorium. "This package conforms to the conditions and limitations specified in 49 CFR 173.426 for radioactive material, excepted package—articles manufactured from natural uranium (or natural thorium), UN2909, and is within Postal Service activity limits for mailing."

347.5 **Emergency Procedures**

When a nonmailable package of radioactive material is discovered intact in the mailstream, the following procedures must be immediately followed:

- a. Place the parcel at least 15 feet from other mail or personnel. Under no circumstances may the package be dispatched.
- b. Report the mailpiece to the appropriate officials in accordance with POM 139.117 and 139.118, as applicable.
- If a package of radioactive material is damaged or is leaking, immediately contact the facility safety officer (or designee). The safety officer will:
 - Follow the appropriate spill-response procedures.
 - Isolate the area around the damaged package to prevent contact with people.
 - Isolate any conveyor, belt, chute, or other equipment or conveyance, including mailbags, in which the radioactive material has leaked or may have leaked.
 - Rope off or guard the isolated area whenever practical.
 - Place a temporary sign indicating the presence of radioactive materials and bearing a warning to stay beyond the edge of the roped area.

The local postmaster or facility manager must immediately request the assistance of qualified persons to check radiation hazards and to supervise the salvage and decontamination. This assistance may be received from the mailer (if known) or from one of the following contacts:

(1) Nearest office of the Department of Energy (DOE) as listed in Exhibit 347.5c(1) or DOE's national emergency number and website are:

DEPARTMENT OF ENERGY (DOE)
EMERGENCY OPERATIONS CENTER

Telephone: 202-586-8100

www.doe.gov

- (2) Local health, fire, or police departments.
- (3) Local civil defense authorities.
- (4) Nearby military installations.
- (5) Nearby scientific laboratories.
- (6) The Nuclear Regulatory Commission, the Environmental Protection Agency, and the Federal Emergency Management Agency, whose national emergency numbers and websites are as follows:

NUCLEAR REGULATORY COMMISSION (NRC)

Telephone: 301-816-5100

www.nrc.gov

ENVIRONMENTAL PROTECTION AGENCY (EPA) NATIONAL RESPONSE CENTER

Telephone: 800-424-8802 Telephone: 202-426-2675

www.epa.gov

FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) NATIONAL EMERGENCY COORDINATION CENTER

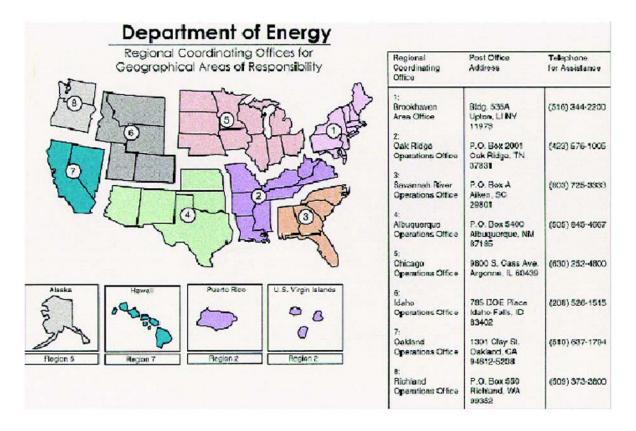
Telephone: 202-646-2400

www.fema.gov

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Exhibit 347.5c(1)

DOE Regional Coordinating Offices



348 Corrosives (Hazard Class 8)

348.1 **Definition**

A *corrosive* is any liquid or solid that causes visible destruction or irreversible alteration in human skin tissue at the site of contact, or a liquid that has a severe corrosion rate on steel. The term "corrosive" includes all items commonly referred to as acids, as well as most batteries.

348.2 **Mailability**

- a. International Mail. All corrosives are prohibited.
- b. *Domestic Mail*. A corrosive that can qualify as an ORM-D material and be renamed with the proper shipping name, "Consumer Commodity", is permitted via air or surface transportation subject to the following:
 - (1) A liquid mixture must be 1 pint (16 oz) or less and must contain 15 percent or less corrosive material, with the remainder of the mixture not being a hazardous material, unless otherwise specified in 348.22 for a specific corrosive material.
 - (2) A solid mixture must be 10 pounds or less per primary receptacle and must contain 10 percent or less corrosive material, with the remainder of the mixture not being a hazardous material, unless otherwise specified for a specific corrosive solid.

348.21 Nonmailable Corrosives

Nonmailable corrosives include the following:

- Batteries (UN2794, UN2795) with liquid electrolyte (such as automobile lead acid batteries), except for the nonspillable type allowed under 348.22.
- b. Nitric Acid (UN2031, UN2032).
- c. Fuming and Spent Sulfuric Acids (UN1831, UN1832).
- d. Hydrofluoric Acid (UN1790).
- e. *Mercury*, and items containing mercury, including thermometers.

348.22 Mailable Corrosives

As a rule, liquid corrosives are limited to 15 percent solution or less as stated in <u>348.2</u> and DMM 601.10.19, unless otherwise specified below. Mailable corrosives include the following:

- a. Acetic Acid (UN2790). Acceptable in solutions that qualify as an ORM-D material and contain less than 80 percent acid and do not exceed 1 pint. Only one primary receptacle is permitted per mailpiece. Packaging Instruction 8A must be followed.
- b. Batteries. Mailable batteries include:
 - (1) Common household dry-cell batteries such as sizes AA, AAA, C, D, etc. are generally not regulated as hazardous materials and are therefore mailable. Packaging requirements in DMM 601.1–8 apply.
 - (2) A nonspillable wet battery containing liquid electrolyte is permitted to be mailed only if the battery casing is completely sealed to prevent the liquid corrosive from spilling during Postal Service handling, as stated in DMM 601.10.19.4. Nonspillable batteries with UN2800 are prohibited in international mail but may be sent as domestic mail via air or surface transportation when prepared within the conditions of Packaging Instruction 8B in Appendix C.
 - (3) For lithium and lithium-ion batteries, see 349.22.
- c. Hydrochloric Acid (UN1789). Acceptable only in solutions not exceeding 10 percent acid that can qualify as an ORM-D material. Packaging Instruction 8A in Appendix C must be followed.
- d. Sulfuric Acid (UN2796). Acceptable in solutions of less than 25 percent acid that qualify as an ORM-D material. Mailable liquids must be packed in a primary receptacle not exceeding 1 pint. Only one primary receptacle is permitted per mailpiece. Packaging Instruction 8A in Appendix C must be followed.
- e. *Dyes* (UN2801, UN3147). Acceptable if the dyes can qualify as ORM-D materials. Mailable dyes must be packaged as required in <u>348.3</u> and Packaging Instruction 8A in Appendix C.
- f. Photographic Mixtures. Acceptable if the corrosive liquid solutions for preparing photographic processing mixtures can qualify as ORM-D materials. Packaging Instruction 8A in Appendix C must be followed.

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When these liquids are in securely closed and sealed bottles that are properly cushioned, they may be packed in the same outside shipping container with required amounts of packaged dry chemicals not classified as hazardous materials (provided no dangerous reaction would occur should the contents of the bottles be mixed with the dry chemicals).

348.3 Packaging

Mailable corrosives, both liquids and solids, must meet the applicable requirements in 348.2b and be prepared as required in Packaging Instruction 8A in Appendix C, or as permitted in 348.22.

348.4 Marking and Documentation

Parcels containing mailable corrosive material must be marked as follows:

- a. For air transportation, a mailpiece containing a mailable corrosive material must be plainly and durably marked on the address side with "ORM-D AIR" immediately following or below the proper shipping name (Consumer Commodity). A properly completed shipper's declaration for dangerous goods must be affixed to the outside of the mailpiece.
- b. For surface transportation, a mailpiece must be plainly and durably marked on the address side with "Surface Mail Only" and "ORM-D" immediately following or below the proper shipping name (Consumer Commodity). A shipper's declaration for dangerous goods is not required for mailable Class 8 corrosives.
- c. Optionally, mailable limited quantity (ORM-D) material may be marked with an approved DOT limited quantity square-on-point marking (see Exhibit 325b). The plain square-on-point marking is used for shipments sent by surface transportation, and the square-on-point marking including the symbol "Y" superimposed in the center is used for shipments sent by air transportation. The following also apply:
 - (1) Markings must be durable, legible, and readily visible.
 - (2) The marking must be applied on at least one side or one end of the outer packaging. The border forming the square-on-point must be at least 2 mm in width, and the minimum dimension of each side must be 100 mm, unless the package size requires a reduced size marking of no less than 50 mm on each side.
 - (3) For surface transportation, the top and bottom portions of the square-on-point and the border forming the square-on-point must be black, and the center must be white or of a suitable contrasting background. Surface shipments containing qualifying ORM-D material bearing the square-on-point limited quantity marking are not required to be marked with the shipping name and identification number.
 - (4) For transportation by aircraft, the top and bottom portions of the square-on-point and the border forming the square-on-point must be black, and the center must be white or of a suitable contrasting background. The symbol "Y" must be black, located

in the center of the square-on-point, and clearly visible. Mailpieces intended for transport by air must also be marked with the proper shipping name and identification number, and must also display an approved DOT class 8 hazardous material warning label (see Exhibit 325c).

Miscellaneous Hazardous Materials (Hazard Class 9)

349.1 **Definition**

A miscellaneous hazardous material is a substance or article that presents a hazard during transportation but does not meet the definition of any other hazard class.

Miscellaneous hazardous materials include:

- a. Any material that has an anesthetic, noxious, or other similar property that could cause extreme annoyance or discomfort to a flight crew member.
- b. Any elevated temperature material, hazardous substance, hazardous waste (other than Division 6.2 medical waste), or marine pollutant.

Examples of miscellaneous hazardous materials (not all of which are mailable) include solid dry ice, primary (non-rechargeable) lithium batteries, magnetized materials, elevated temperature substances, environmentally hazardous substances, life-saving appliances (i.e., automobile air-bags), and asbestos.

349.2 **Mailability**

- a. International Mail. All miscellaneous hazardous materials are prohibited, except for certain magnetized materials as permitted in 349.242a and IMM 136g.
- b. Domestic Mail. A miscellaneous hazardous material that can be reclassed as an ORM-D material and renamed as a consumer commodity (ID8000) is permitted. Only UN3077, UN3082, UN3175, UN 3334, and UN3335 class 9 materials are mailable by air transportation; mailpieces including eligible quantities of these materials must be marked with the proper shipping name "Consumer Commodity." Additionally, dry ice and magnetized materials are permitted within the specific limits provided in 349.23 and 349.24.

349.21 Nonmailable Class 9 Materials

The following materials are prohibited:

- a. All Class 9 materials that cannot qualify as an ORM-D material, except dry ice and magnetized materials.
- b. All magnetized materials that have a measurable magnetic field strength greater than 0.00525 gauss at 15 feet.
- c. For air transportation, all magnetized materials that can cause a compass deviation at a distance of 7 feet or more.

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d. In domestic mail via air transportation, dry ice in quantities exceeding 5 pounds per mailpiece.

e. For domestic and international mailings, primary (nonrechargeable) lithium batteries are prohibited via air transportation if the batteries are shipped *without* the equipment they operate (individual batteries). In addition, lithium batteries are prohibited in international mailings when they are mailed *with* the equipment they are intended to operate.

349.22 Mailable Class 9 Materials

349.221 Primary Lithium (Nonrechargeable) Cells and Batteries — Domestic

For domestic mailings only, small consumer-type primary lithium cells or batteries (lithium metal or lithium alloy) like those used to power cameras and flashlights are mailable domestically under the following conditions. See 622 or IMM 136 when mailing batteries internationally or to APO, FPO, or DPO destinations.

- a. General. The following restrictions apply to the mailability of all primary lithium (nonrechargeable) cells and batteries:
 - (1) Each cell must contain no more than 1.0 gram (g) of lithium content per cell.
 - (2) Each battery must contain no more than 2.0 g aggregate lithium content per battery.
 - (3) Each cell or battery must meet the requirements of each test in the UN Manual of Tests and Criteria, part III, and subsection 38.3 as referenced in DOT's hazardous materials regulation at 49 CFR 171.7.
 - (4) All outer packages must have a complete delivery and return address.
- Installed in Equipment. The following additional restrictions apply to the mailing of primary cells or batteries properly installed in the equipment they operate:
 - (1) The batteries installed in the equipment must be protected from damage and short circuit.
 - (2) The equipment must be equipped with an effective means of preventing it from being turned on or activated.
 - (3) The equipment must be cushioned to prevent movement or damage and be contained in a strong enough sealed package to prevent crushing of the package or exposure of the contents during normal handling in the mail.
 - (4) The mailpiece must not exceed 11 pounds.
- c. Mailed With Equipment. The following additional restrictions apply to the mailing of primary cells or batteries shipped with (but not installed in) the device or equipment being mailed:
 - (1) The shipment cannot contain more batteries than the number needed to operate the device.
 - (2) The primary lithium cells and batteries must be packaged separately and cushioned to prevent movement or damage.

- (3) The shipment must be contained in a strong enough sealed package to prevent crushing of the package or exposure of the contents during normal handling in the mail.
- (4) The outside of the package must be marked on the address side "Package Contains Primary Lithium Batteries."
- (5) The mailpiece must not exceed 11 pounds.
- d. *Mailed Without Equipment.* The following additional restrictions apply to the mailing of primary cells or batteries without equipment (individual batteries):
 - (1) The primary lithium cells and batteries must be mailed in "the originally sealed packaging."
 - (2) The sealed packages of batteries must be separated and cushioned to prevent short circuit, movement, or damage.
 - (3) The shipment must be contained in a strong enough sealed package to prevent crushing of the package or exposure of the contents during normal handling in the mail.
 - (4) They may only be sent via surface transportation.
 - (5) The outside of the package must be marked on the address side "Surface Mail Only, Primary Lithium Batteries—Forbidden for Transportation Aboard Passenger Aircraft."
 - (6) The mailpiece must not exceed 5 pounds.
- 349.222 Secondary Lithium-ion (Rechargeable) Cells and Batteries Domestic
 For domestic mailings only, small consumer-type lithium-ion cells and
 batteries like those used to power cell phones and laptop computers are
 mailable domestically under the following conditions. See 622 or IMM 136
 when mailing batteries internationally or to and from APO, FPO, or DPO
 destinations.
 - a. General. The following additional restrictions apply to the mailability of all secondary (rechargeable) lithium-ion cells and batteries:
 - (1) The lithium content must not exceed 20 Wh (Watt-hour rating) per cell.
 - (2) The total aggregate lithium content must not exceed 100 Wh per battery.
 - (3) Each cell or battery must meet the requirements of each test in the UN Manual of Tests and Criteria, part III, and subsection 38.3 as referenced in DOT's hazardous materials regulation at 49 CFR 171.7.
 - (4) The mailpiece must not contain more than three batteries.
 - (5) All outer packages must have a complete delivery and return address.
 - b. *Installed in Equipment*. The following additional restrictions apply to the mailing of secondary cells or batteries properly installed in equipment they operate:
 - (1) The batteries installed in the equipment must be protected from damage and short circuit.

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- (2) The equipment must be equipped with an effective means of preventing it from being turned on or activated.
- (3) The equipment must be cushioned to prevent movement or damage and be contained in a strong enough sealed package to prevent crushing of the package or exposure of the contents during normal handling in the mail. The shipment must be mailed in a strong outer package.
- c. *Mailed With Equipment.* The following additional restrictions apply to the mailing of secondary cells or batteries shipped with (but not installed in) the device or equipment being mailed:
 - (1) The shipment cannot contain more batteries than the number needed to operate the device up to three batteries.
 - (2) The secondary lithium cells and batteries must be packaged separately and cushioned to prevent movement or damage.
 - (3) The shipment must be contained in a strong enough sealed package to prevent crushing of the package or exposure of the contents during normal handling in the mail.
 - (4) The outside of the package must be marked on the address side "Package Contains Lithium-ion Batteries (no lithium metal)."
- d. *Mailed Without Equipment*. The following additional restrictions apply to the mailing of secondary cells or batteries without equipment (individual batteries):
 - (1) The secondary lithium cells and batteries must be mailed in "the originally sealed packaging", and the package may contain no more than three batteries.
 - (2) The sealed packages of batteries must be separated and cushioned to prevent short circuit, movement, or damage.
 - (3) The shipment must be contained in a strong enough sealed package to prevent crushing of the package or exposure of the contents during normal handling in the mail.
 - (4) The outside of the package must be marked on the address side "Package Contains Lithium-ion Batteries (no lithium metal)."

349.23 **Dry Ice**

349.231 General

Dry ice is primarily used to keep other items cool. The items being cooled can be either mailable hazardous materials or nonhazardous items, such as medical specimens or foods.

349.232 Characteristics and Precautions

Dry ice (carbon dioxide solid) is produced by expanding liquid carbon dioxide to vapor and compacting the material into blocks. When dry ice converts (dissipates) to a gaseous form, it takes in heat from its surroundings. The resulting gas is heavier than air and can cause suffocation in confined areas as air is displaced. When dry ice is enclosed in a thick metal or other restrictive type of container, internal pressure builds up and could cause the

container to rupture or explode. Mailpieces containing dry ice must be handled with care because its very low temperature (about –110° F or –79° C) can cause severe burns to skin upon direct contact.

349.233 Dry Ice Mailability

Dry ice is permitted to be mailed when it is used as a refrigerant to cool the content of a mailable hazardous or nonhazardous material. Packages containing dry ice must be packed in containers that permit the release of carbon dioxide gas and conform to 49 CFR 173.217 and 175.10(a)(13). Mailpieces containing dry ice are subject to the following conditions, as applicable:

- a. International Mail. Dry ice is prohibited.
- b. Domestic Mail via Air Transportation. Dry ice is permitted in quantities of up to 5 pounds per mailpiece. Mailpieces containing dry ice are subject to the conditions for Packaging Instruction 9A in Appendix C, as applicable.
- Domestic Mail via Surface Transportation. A mailpiece sent via surface transportation (i.e., at Standard Mail rates) may contain more than 5 pounds of dry ice. Mailpiece preparation is subject to the conditions for Packaging Instruction 9A in Appendix C.

Note: A mailpiece that is prepared for surface transportation *must not, under any circumstances,* be routed via air transportation.

349.24 Magnetized Materials

A magnetized material is not classified within any of the nine hazard classes. Such material is regulated as a hazardous material only if offered for carriage on air transportation and when it has a magnetic field strength capable of causing the deviation of aircraft instruments.

349.241 **Definition**

A magnetized material is any article that has a magnetic field strength capable of causing the deviation of aircraft instruments. A magnetized material is regulated as a hazardous material when it is presented for air transportation and has a measurable magnetic field strength greater than 0.00525 gauss at 15 feet. Magnetized materials include magnets and magnetized devices such as magnetrons and light meters of sufficient strength to possibly cause erroneous aircraft compass readings. If the maximum field strength observed at a distance of 7 feet is less than 0.002 gauss or there is no significant compass deflection (less than 0.5 degree), the article is not restricted as a magnetized material.

349.242 Mailability

Magnetized materials that have a magnetic field strength of 0.002 gauss or more at a distance of 7 feet from any point on the surface of the outer packaging are mailable via air transportation if properly packaged. Magnetized materials that have a field strength greater than 0.00525 gauss at 15 feet are nonmailable under any conditions. The following requirements also apply:

a. International Mail. Magnetized materials are prohibited except for those that cannot cause a compass deviation at a distance of 7 feet or more. See 622.4.

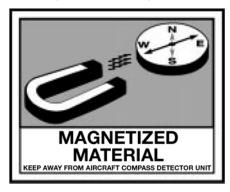
Hazardous Materials 349.4

b. Domestic Mail via Air Transportation. Magnetized materials that can cause a compass deviation at 7 feet or more are prohibited. A magnetized material is mailable if it is not capable of causing a compass deviation at a distance of 7 feet or more. Mailpiece preparation is subject to the conditions for Packaging Instruction 9B in Appendix C. The address side of the outer packaging must bear the magnetized material warning label shown in Exhibit 349.242b.

c. Domestic Mail via Surface Transportation. Magnetized material is not regulated as a hazardous material when transported via surface transportation.

Exhibit 349.242b

Warning Label for Magnetized Materials



349.3 Packaging

For mailable Class 9 materials, the following packaging requirements as detailed in the Packaging Instructions in Appendix C apply:

- a. Packaging Instruction 9A must be followed for mailable quantities of dry ice.
- Packaging Instruction 9B must be followed for mailable types of magnetized materials.
- Packaging Instruction 9C must be followed for Class 9 miscellaneous hazardous materials that are eligible to be reclassed as mailable ORM-D materials.
- d. Packaging Instruction 9D must be followed for lithium and lithium-ion cells and batteries.

349.4 Marking and Documentation

Parcels containing mailable class 9 material must be marked as follows:

- a. For air transportation, a mailable Class 9 material that can be reclassed as an ORM-D material must be plainly and durably marked on the address side with "ORM-D AIR" immediately following or below the proper shipping name (Consumer Commodity). A shipper's declaration for dangerous goods that is prepared in triplicate must be affixed to the outside of the mailpiece.
- For surface transportation, a mailable material that can be reclassed as an ORM-D material must be plainly and durably marked on the address side with "Surface Mail Only" and "ORM-D" immediately following or below the proper shipping name (Consumer Commodity).

- c. Optionally, mailable limited quantity (ORM-D) material may be marked with an approved DOT limited quantity square-on-point marking (see Exhibit 325b). The plain square-on-point marking is used for shipments sent by surface transportation, and the square-on-point marking including the symbol "Y" superimposed in the center is used for shipments sent by air transportation. The following also apply:
 - (1) Markings must be durable, legible, and readily visible.
 - (2) The marking must be applied on at least one side or one end of the outer packaging. The border forming the square-on-point must be at least 2 mm in width, and the minimum dimension of each side must be 100 mm, unless the package size requires a reduced size marking of no less than 50 mm on each side.
 - (3) For surface transportation, the top and bottom portions of the square-on-point and the border forming the square-on-point must be black, and the center must be white or of a suitable contrasting background. Surface shipments containing qualifying ORM-D material bearing the square-on-point limited quantity marking are not required to be marked with the shipping name and identification number.
 - (4) For transportation by aircraft, the top and bottom portions of the square-on-point and the border forming the square-on-point must be black, and the center must be white or of a suitable contrasting background. The symbol "Y" must be black, located in the center of the square-on-point, and clearly visible.

 Mailpieces intended for transport by air and containing eligible limited quantity material of DOT Classes 2, 3, and 6.1, or eligible hazard class 9 limited quantity material categorized in UN3077, UN3082, UN3175, UN3334, or UN3335, must be marked with the proper shipping name "Consumer Commodity" and identification number "ID8000." Shipments must display an approved DOT Class 9 hazardous material warning label (see Exhibit 325c).
- d. The specific marking and documentation requirements for dry ice and magnetized materials are specified in <u>USPS Packaging Instruction 9A</u> and <u>USPS Packaging Instruction 9B</u> in Appendix <u>C</u>, as applicable.

4 Restricted Matter

41 General

411 **Definition**

Restricted matter includes articles on which mailing restrictions have been imposed for reasons other than risk of harm to persons or property involved in moving the mail. Motor vehicle master keys and intoxicating liquors are examples of restricted items.

412 Mailer Responsibility

The mailer is responsible for ensuring that all Postal Service requirements, as well as all federal and state laws and local ordinances that apply to the shipment of an article of restricted matter, have been met.

413 Rulings

Where doubt exists about mailability of any article that is considered to be restricted matter, a request for a ruling may be made to the local postmaster (see 215.3).

When the qualification of an addressee to receive restricted matter within the conditions in this chapter and DMM 601.11.4 is in question, a postmaster may require the mailer or addressee to furnish a written explanation of the addressee's eligibility and/or the item's mailability. If the explanation is not satisfactory or when uncertainty remains, the postmaster may forward the explanation along with a statement of the facts to the PCSC for a ruling.

414 Nonmailable Matter Found in the Mails

All nonmailable articles of restricted matter discovered in the mailstream must immediately be reported in accordance with the provisions in the *Postal Operations Manual* (POM) 139.117 or 139.118, as appropriate.

42 Intoxicating Liquors

421 **Definition**

Intoxicating liquors are drinkable beverages that have 0.5 percent or more alcoholic content by weight and are taxable under chapter 51 of the Internal Revenue Service (IRS) Code.

422 Mailability

422.1 Nonmailable Matter

422.11 Intoxicating Liquors

Intoxicating liquors having 0.5 percent or more alcoholic content are nonmailable. Taxable liquors with 3.2 percent or less alcohol, including those obtained under a prescription or as a collector's item, also are nonmailable. The prohibition of the mailing of intoxicating liquors is contained in federal law (18 U.S.C. 1716).

422.12 Promotional Materials

Advertising, promotional, or sales matter that solicits or induces the mailing of intoxicating liquors also is nonmailable. See DMM 601.12.4.1.

422.2 Mailable Liquors

422.21 Products Not Categorized As Intoxicating Liquors

A product containing an intoxicating liquor is mailable if it conforms to the applicable requirements of the IRS and the Food and Drug Administration (FDA), and if it is not a taxable alcoholic beverage, poisonous, or flammable.

The following are examples of products that may be mailable:

- a. Cold remedies.
- b. Cooking wine.
- c. Mouthwash.

422.22 Exempt Mailings Between Federal and State Agencies

Intoxicating liquor is exempt from the prohibition against mailing when it is sent between employees of federal or state agencies who have an official use for the liquor, such as for testing purposes. This exemption is based on the intent of the law to prevent liquor from being transported to prohibited jurisdictions for consumption and to ensure that all proper tax revenues are paid.

Packaging and Marking

423.1 General

All exempt and excepted intoxicating liquors must be sent via Registered Mail service and must meet the packaging requirements for liquids in DMM 601.2.

423.2 Denatured Flammable or Combustible Liquor

There are no postal requirements to denature the contents (i.e., to change the nature or natural qualities) of intoxicating liquor. However, if contents are denatured through the use of such elements as sodium bisulfate (a corrosive) or mercuric chloride (a poison), the substances must meet the mailability requirements in chapter 3 for a Class 8 corrosive material or a Division 6.1 toxic substance, as appropriate. If the contents are flammable or combustible, the material must meet the requirements for a Class 3 flammable or combustible liquid in chapter 3.

Restricted Matter 431.5

43 Firearms

431 **Definitions**

431.1 Firearm

A firearm is defined as any device (including a starter gun) that is designed, or may readily be converted, to expel a projectile by an explosion, a spring, or other mechanical action, or by air or gas pressure with sufficient force to be used as a weapon.

431.2 Handgun

Pistols, revolvers, and other firearms capable of being concealed on the person (for example, short-barreled shotguns and short-barreled rifles) are defined as handguns. The following definitions apply:

- a. *Pistol or Revolver*. A pistol or revolver is a handgun designed to be fired by the use of a single hand.
- b. Short-Barreled Rifle. A rifle having one or more barrels less than 16 inches long is defined as a short-barreled rifle. This includes any weapon made from a rifle (by alteration or modification) resulting in an overall length of less than 26 inches.
- c. Short-Barreled Shotgun. A shotgun having one or more barrels less than 18 inches long is defined as a short-barreled shotgun. This includes any weapon made from a shotgun (by alteration or modification) resulting in an overall length of less than 26 inches.

431.3 Antique Firearm

An antique firearm (including one with a matchlock, flintlock, percussion cap, or similar type of ignition system) is any firearm manufactured in or before 1898, or a replica of such a firearm, that meets either of the following conditions:

- a. It is not designed or redesigned for using rimfire or conventional centerfire fixed ammunition.
- It uses rimfire or conventional centerfire fixed ammunition that is no longer manufactured in the United States and that is not readily available through commercial trade channels.

431.4 Rifles and Shotguns

A rifle is a shoulder weapon having a barrel that is 16 inches or more in length. A shotgun is a shoulder weapon having a barrel that is 18 inches or more in length. Rifles and shotguns have an overall length of 26 inches or greater and cannot be concealed on a person.

431.5 Licensed Manufacturer or Licensed Dealer

A manufacturer of firearms or a bona fide dealer in firearms is one duly licensed by the Bureau of Alcohol, Tobacco, and Firearms (ATF), U.S. Department of the Treasury, under the Gun Control Act of 1968.

432 Mailability

432.1 General

The following conditions apply:

- a. Pistols, revolvers, and other firearms capable of being concealed on the person (referred to as "handguns") are nonmailable in the domestic mail, except as permitted in Exhibit 432.1 and DMM 601.11.1.
- b. The disassembled parts of a handgun or other type of nonmailable firearm that can be readily reassembled as a weapon are nonmailable, except as permitted in <u>Exhibit 432.1</u> and DMM 601.11.1 or 601.11.2.
- c. Unloaded antique firearms sent as curios or museum pieces are generally permitted, as specified in <u>Exhibit 432.1</u> and DMM 601.11.2.
- d. Unloaded rifles and shotguns may be mailed if the mailer fully complies with the Gun Control Act of 1968 (Public Law 90—618) and 18 U.S.C. 921. The mailer may be required to establish, by opening the parcel or by written certification, that the gun is unloaded and not excluded from mailing because of the restrictions in 432.1b and c.

Restricted Matter 432.1

Exhibit 432.1

Mailability Requirements for Firearms

Unloaded Handgun

Handguns — e.g., pistols, revolvers, and other firearms capable of being concealed on the person — are **nonmailable UNLESS** mailed by a licensed manufacturer of firearms, or a licensed dealer of firearms, or an authorized agent of the federal government or government of a state, territory, or district, and **ONLY** when addressed to a person in one of the following categories for use in the person's official duties **AND** upon filing the required affidavit or certificate, as applicable (see DMM 601.11.1.3–7):

- a. Addressee: Officer of Army, Coast Guard, Air Force, Navy, Marine Corps, or Organized Reserve Corps.
 Affidavit or Certificate Requirements: Mailable with affidavit signed by addressee and certificate signed by the commanding officer.
- Addressee: Officer of National Guard or militia of a state, territory, or district.
 Affidavit or Certificate Requirements: Mailable with affidavit signed by addressee and certificate signed by the commanding officer.
- Addressee: Officer of the federal government or a state, district, or territory whose official duty is to serve warrants of arrest or commitment.
 - **Affidavit or Certificate Requirements:** Mailable with affidavit signed by addressee and certificate signed by the head of the agency employing the addressee.
- d. Addressee: Postal Service employees specifically authorized by the Chief Postal Inspector. Affidavit or Certificate Requirements: Mailable with affidavit signed by addressee and certificate signed by the head of the agency employing the addressee.
- e. Addressee: Officer or employee of a U.S. enforcement agency.
 Affidavit or Certificate Requirements: Mailable with affidavit signed by addressee and certificate signed by the head of the agency employing the addressee.
- f. Addressee: Watchman engaged in guarding federal, state, district, or territory property.
 Affidavit or Certificate Requirements: Mailable with affidavit signed by addressee and certificate signed by chief clerk of department, bureau, or independent branch of the government agency employing the addressee.
- g. **Addressee:** Purchasing agent or other designated member of an enforcement agency employing officers and personnel included in c, d, or e above.
 - **Affidavit or Certificate Requirements:** Mailable with affidavit signed by addressee and certificate signed by the head of agency stating the firearm is to be used by an officer or employee cited in c, d, or e above.
- h. Addressee: Licensed manufacturers and dealers of firearms.
 Affidavit or Certificate Requirements: Signed statement on PS Form 1508, Statement by Shipper of Firearms.

The mailer must be a licensed manufacturer or dealer mailing to another licensed manufacturer or dealer. Handguns may be mailed without regard to the requirements noted in items a-h if the addressee is the FBI (or its Director) or a scientific lab or crime detection bureau of any agency whose members are federal law enforcement officers, or state, district, or territory officers authorized to serve warrants of arrest or commitment.

Manufacturers or dealers must complete PS Form 1508, Statement by Shipper of Firearms, and file with the postmaster.

Postmasters may forward an unsatisfactory mailer statement to their PCSC for a ruling.

Unloaded Rifle or Shotgun

Short-barreled rifles or shotguns that can be concealed on the person are nonmailable.

The mailer must comply with the Gun Control Act of 1968 and with state and local laws.

The Postal Service may require the mailer to open the parcel or give written certification that the weapon is unloaded and not concealable.

Registered Mail service is recommended.

Unloaded Antique Firearm

Unloaded antique firearms sent as curios or museum pieces are acceptable for mailing.

432.2 **PS Form 1508**

PS Form 1508, *Statement by Shipper of Firearms*, must be completed by each firearm manufacturer or dealer who deposits firearms for mailing. The form must be filed with the postmaster of the post office of mailing.

432.3 Packaging and Marking

No markings of any kind that indicate the nature of the contents may be placed on the outside wrapper or container of any mailpiece containing firearms. Mailable matter must be properly and securely packaged within the general packaging requirements in DMM 601.1–8.

433 Mailer Responsibility

Even though certain types of firearms are permitted to be mailed within the provisions of the postal law in 18 U.S.C. 1715, it is the mailer's responsibility to comply with all federal and state regulations and local ordinances affecting the movement of firearms.

434 Legal Opinions on Mailing Firearms

Postmasters are not authorized to give opinions on the legality of any shipment of rifles or shotguns. Mailers should be referred to the nearest regional ATF office for further advice (see ATF Online at www.atf.gov).

Nonmailable Firearms Found in the Mails

Nonmailable firearms discovered in the mailstream must be immediately reported to the Inspection Service in accordance with POM 139.117.

44 Knives and Sharp Instruments

441 **Definitions**

441.1 General

Sharp instruments include all sharp-pointed or sharp-edged implements such as knives, tools, ice picks, razor blades, stilettos, or similar devices. When uncertain about the mailability of a sharp instrument or a switchblade knife, a ruling may be requested from the local postmaster (see 215.3).

441.2 Switchblade Knife

A switchblade knife has a blade that opens automatically by hand pressure applied to a button or other device in the handle, or by operation of inertia, gravity, or both.

Restricted Matter 451

442 Mailability

A switchblade knife, as defined in <u>441.2</u>, is mailable only to the following categories of addressees:

- Certain designated supply or procurement officers and employees ordering, procuring, or purchasing them for use in connection with their respective governments or organizations, such as:
 - (1) Civilian or armed forces supply or procurement officers, and employees of the federal government.
 - (2) Supply or procurement officers of the National Guard, the Air National Guard, or the militia of a state, territory, or the District of Columbia.
 - (3) Supply or procurement officers or employees of the municipal government of the District of Columbia, or of the government of any state or territory, or of any county, city, or other political subdivision of a state or territory.
- b. Manufacturers or bona fide dealers of such knives in connection with a shipment made to an address in one of the above categories.

Packaging and Marking

443.1 **General**

All sharp-pointed or sharp-edged instruments such as knives, tools, ice picks, razor blades, etc., must be securely packaged in a strong container as required in DMM 602.12.5.3. Sufficient cushioning material must be used to protect the sharp points and edges from cutting through the outer packaging during normal Postal Service handling.

443.2 **Marking**

No marking of any kind that indicates the nature of the contents may be placed on the outside of any mailpiece containing a switchblade knife.

444 Nonmailable Knives in the Mails

Nonmailable knives or sharp instruments discovered in the mailstream must be reported to the Inspection Service in accordance with POM 139.117.

45 Liquids, Powders, and Odor-Producing Materials

451 **Definitions**

A *liquid* is any substance that flows readily and assumes the form of the container, but retains an independent volume. For the purposes of mailability, a liquid may be a cream or paste or any other nonhazardous substance (except a gas) that may liquefy under existing conditions.

A powder is a substance composed of finely dispersed solid particles.

452 Mailability

- Liquids and powders that are nonhazardous (i.e., not regulated as hazardous materials) are mailable provided they are properly packaged as specified in 453 and DMM 601.12.9.1 and DMM 601.12.9.2.
- b. Any matter that is a source of an obnoxious odor is nonmailable as stated in DMM 601.12.8.

452.1 Restrictions

Liquids and powders that are corrosive, explosive, flammable, toxic, or otherwise hazardous are subject to the mailing conditions for hazardous materials in chapter $\underline{3}$ and DMM 601.10, as applicable.

452.2 Cremated Remains

Human ashes are permitted to be mailed provided they are packaged as required in 453b. The identity of the contents should be marked on the address side. Mailpieces sent to domestic addresses must be sent via Express Mail or Registered Mail service. Mailpieces sent to an international address must be sent via Registered Mail service, and the country listing in the IMM must show that cremated remains are permitted and Registered Mail service must be available for that country.

453 Packaging and Marking

The following conditions apply:

- a. Liquids. Nonhazardous liquids, creams, and pastes (particularly those in 1-gallon paint cans with only friction-top closures) are often a source of damage to other mail and postal equipment. The proper packaging of liquids is critical to ensuring the integrity of the mailpiece during handling. All liquids are subject to the general packaging requirements in DMM 601.1–8 and the following:
 - Containers having friction-top closures are not acceptable by themselves. Such containers must be packed within a strong and securely sealed outer packaging.
 - (2) Screw caps with a minimum of one and one-half turns, soldering clips, or other effective means must be used to ensure a secure closure.
 - (3) Glass and other breakable containers more than 4 fluid ounces and any containers over 32 fluid ounces must be cushioned within a sealed, waterproof container such as a can or a plastic bag, and must be packed within a strong and securely sealed outer packaging.
 - (4) Steel pails and drums with carrying handles and positive closures (e.g., locking rings or recessed spouts under screw-cap closures) may be accepted without additional packaging.
- Powders. Dry materials that could cause damage, discomfort, destruction, or soiling upon escape (leakage) must be packed in siftproof containers or other containers that are sealed in durable siftproof outer containers.

Restricted Matter 462

46 Motor Vehicle Master Keys and Locksmithing Devices

461 **Definitions**

461.1 Motor Vehicle Master Keys

A motor vehicle master key is any of the following:

- a. Any key other than the key (or an exact duplicate) furnished with the motor vehicle by the manufacturer.
- b. The key (or an exact duplicate) furnished with a replacement lock.
- c. Any key or manipulation device designed to operate two or more motor vehicle ignition, door, or trunk locks of different combinations, including any pattern, impression, or mold from which a master key or manipulation device can be made (18 U.S.C. 1716 and 39 U.S.C. 3002).

461.2 Locksmithing Devices

A locksmithing device is any of the following:

- A device or tool (other than a key) designed to manipulate the tumblers in a lock into the unlocked position through the keyway of such lock.
- A device or tool (other than a key or a device or tool under 461.2a)
 designed for bypassing a lock or similar security device, or for opening
 it by a method normally not used by consumers to open such locks or
 security devices.
- c. A device or tool designed for making an impression of a key or similar security device in order to duplicate such key or device.

462 Mailability

The following conditions apply:

- a. Motor vehicle master keys, as defined in <u>461.1</u>, are nonmailable unless sent to any of the following categories of addressees:
 - (1) Lock manufacturers.
 - (2) Professional locksmiths.
 - (3) Motor vehicle manufacturers or dealers.
 - (4) Federal, state, or local government agencies.
- b. Locksmithing devices, as defined in 461.1, are nonmailable except when sent to any of the following categories of addressees:
 - (1) Lock manufacturers or distributors.
 - (2) Bona fide locksmiths.
 - (3) Bona fide repossessors.
 - (4) Motor vehicle manufacturers or dealers.
 - (5) Bona fide automotive repair shops or businesses.

Packaging and Marking

No marking of any kind that indicates the nature of the contents may be placed on the outer wrapper or packaging of any mailpiece containing motor vehicle master keys or locksmithing devices. Mailable matter must be properly and securely packaged within the general requirements in DMM 601.1–8.

464 Nonmailable Matter Found in the Mails

All nonmailable motor vehicle master keys and locksmithing devices discovered in the mailstream must be reported in accordance with POM 139.117.

47 Controlled Substances and Drugs

471 **Definitions**

471.1 Controlled Substances

A controlled substance is any narcotic, hallucinogenic, stimulant, or depressant drug identified in Schedules I through V of the Controlled Substances Act in 21 U.S.C. 801 and the implementing regulations in 21 CFR 1300.

Controlled substances include poisons, compositions containing poisons, poisonous drugs and medicines, or materials that may kill or injure within the intent and meaning of 18 U.S.C. 1716.

471.2 **Drugs**

The term "drug" refers to all prescription, nonprescription, and patent medicines and related items such as aspirin, antiseptics, cold remedies, diet pills, and cosmetic medicines that do not contain a controlled substance and are not poisonous drugs or medicines. Certain poisonous (toxic) drugs and medicines may be subject to the requirements for Division 6.1 materials in chapter 3.

471.3 **Drug Paraphernalia**

The term "drug paraphernalia" refers to any equipment, product, or material primarily intended or designed for use in manufacturing, compounding, converting, concealing, producing, processing, preparing, injecting, ingesting, inhaling, or otherwise introducing into the human body a controlled substance.

472 Mailer Responsibility

The mailer is fully responsible for the following:

 Ensuring compliance not only with Postal Service regulations, but also with all other federal laws and regulations, such as the Poison Prevention Packaging Act and the Consumer Product Safety Act, and with all local laws and regulations governing distribution of unsolicited samples.

Restricted Matter 473.4

 Being aware of other characteristics of an article or substance, such as its flammable, toxicity, or corrosive characteristics that may affect mailability.

473 Mailability

473.1 Controlled Substances

If the distribution of a controlled substance is unlawful under 21 U.S.C. 801 or any implementing regulation in 21 CFR 1300, then the mailing of the substance is also unlawful under 18 U.S.C. 1716.

Controlled substances and drugs that contain controlled substances are acceptable in the domestic mail only under the following conditions:

- a. For mailable controlled substances, generally both the mailer and addressee must meet either of the following conditions:
 - (1) Be registered with the Drug Enforcement Administration (DEA).
 - (2) Be exempted from DEA registration, such as military, civil defense, and law enforcement personnel, in performing official duties.
- For prescription medicines containing mailable narcotic drugs (controlled substances), only a pharmacist or medical practitioner, etc., who dispenses the medicine may mail such substances to the patients under their care.

473.2 Drugs (Other Than Controlled Substances)

All prescription, nonprescription, and patent medicines and related items, including solicited and unsolicited samples of such items, that are not considered to be controlled substances under 471.1, are permitted to be mailed as follows:

- a. For prescription medicines containing a nonnarcotic drug(s), only a
 pharmacist or medical practitioner, etc., who dispenses the medicine
 may mail such substances to the patients under their care.
- For nonprescription medicines, the mailer must meet all applicable federal, state, or local laws that may apply (such as the Poison Prevention Packaging Act of 1970 in 15 U.S.C. 1471(2) and the Consumer Product Safety Commission requirements in 16 CFR 1700).

473.3 **Poisonous Drugs and Medicines**

Poisonous drugs and medicines may be sent only from the manufacturer or dealer to licensed physicians, surgeons, dentists, pharmacists, druggists, cosmetologists, barbers, and veterinarians (18 U.S.C. 1716). Some poisonous drugs are subject to the requirements for Division 6.1 materials in chapter 3.

473.4 Small Amounts for Law Enforcement Purposes

Nothing in this section precludes the mailing of small amounts of unknown matter suspected of containing controlled substances to a federal, state, or local law enforcement agency for law enforcement purposes. Such mailings must comply with the applicable packaging requirements in 474.

473.5 Drug Paraphernalia

If the possession of any type of drug paraphernalia is unlawful under the Controlled Substances Act, the article also is nonmailable. See DMM 601.11.12 for more information.

473.6 Return of Prescription Drugs

Mailers may use merchandise return service to return prescription drugs for purposes of drug recalls; voluntary manufacturer withdrawals; and dispensing errors such as incorrect drug, dosage, or strength, as permitted by 21 CFR 1307.12 or other applicable law. The mailpiece must be addressed to the manufacturer or its registered agent. Manufacturers or their registered agents must furnish mailing containers to their customers for the purpose of mailing back the identified drugs. Manufacturers or their registered agents must use merchandise return service (see DMM 507.9.0) with First-Class Mail or Priority Mail for these mailpieces. Manufacturers or their agents continue to be responsible for maintaining records in compliance with any regulation of the Drug Enforcement Administration and/ or the Food and Drug Administration.

474 Packaging and Marking

The following conditions apply:

- a. Controlled substances. The inner packaging of any mailpiece containing a mailable controlled substance must be marked and sealed in accordance with the applicable provisions and regulations of the Controlled Substances Act (see 471.1). The inner packaging must be securely held within a plain outer wrapper or packaging. No markings of any kind that indicate the nature of the contents may appear on the outside of the mailpiece. The general packaging requirements in DMM 601.1–8 also apply.
- b. Drugs and Medicines. Each mailpiece containing a mailable drug or medicine (that does not contain a controlled substance) must be held in a plain outer wrapper or packaging. No markings of any kind to indicate the nature of the contents may appear on the outside of the mailpiece. The general packaging requirements in DMM 601.1–8 also apply.

475 Rulings

Rulings must be based on the chemical composition of a product; the composition of commercial products is ever-changing-e.g., the packaging declares a "new and improved formula."

Requests for rulings must include the trade name of the product, as well as information regarding any know hazardous ingredients. A generic description of the item (e.g., "tranquilizers") is not sufficient. Requests for rulings are directed to the local postmaster (see 215.3).

Restricted Matter 482.22

476 Nonmailable Matter Found in the Mails

Nonmailable controlled substances, drugs, and drug paraphernalia discovered in the mailstream must be immediately reported in accordance with POM 139.117.

477 Undeliverable Medicines

The disposition of undeliverable mailpieces containing drugs and medicines is governed by POM 691.52

48 Unsolicited Promotional Samples

481 **Definition**

The term "unsolicited promotional sample" refers to any article of merchandise that is sent through the mail free of charge and that is unrequested by the addressee. This definition includes items such as patent medicines, cosmetics, laundry products, and razors.

482 Mailability

482.1 General

The fact that an item is unsolicited by the addressee generally does not affect its mailability unless the article is composed of hazardous materials or restricted matter. Hazardous materials are subject to the mailing conditions in chapter 3 of this publication and DMM 601.10, as applicable. Unsolicited items that are not hazardous materials may be subject to additional packaging requirements in 601.11.

482.2 Nonmailable Promotional Samples

482.21 Abortive and Contraceptive Devices or Materials

Any article or instrument designed, adapted, or intended for producing abortion is nonmailable (18 U.S.C. 1461).

Unsolicited samples of an article or instrument designed, adapted, or intended for preventing conception is nonmailable, except when mailed to a manufacturer, dealer, licensed physician or surgeon, nurse, pharmacist/druggist, or a hospital or clinic (39 U.S.C. 3001 and 18 U.S.C. 1461). See DMM 601.11.19.

482.22 Restricted or Improperly Prepared Items

Other types of unsolicited samples may be nonmailable for other reasons, including the following:

- The sample is an otherwise restricted item such as a toxic substance or poison subject to the hazardous materials requirements in chapter 3 and DMM 601.10.
- b. The sample is improperly prepared for mailing, such as an inadequately packaged razor blade or a household substance that does not comply with the child-resistant packaging required in DMM 601.11.13.

- c. The sample is a pesticide subject to the restrictions in DMM 601.11.14 or a fragrance advertising sample subject to the restrictions in DMM 601.11.15.
- d. The sample is an odd-shaped item in a letter-size envelope that is prohibited under DMM 601.11.18.

483 Customer Objection to Unsolicited Matter

Customers who object to receiving unsolicited matter should be advised that the Postal Service must accept any lawfully mailable matter that is properly prepared for mailing and bears appropriate postage. These customers may be directed to contact the mailer or manufacturer to have their names removed from the mailing list. Customers also may be advised they may refuse any piece of mail, either at the time it is offered for delivery or after it is delivered (if unopened), as provided in DMM 508.1 and POM 611.

484 Rulings

Rulings sometimes can be provided based on the trade name of an item, but that is not always possible. A generic description, such as "razor blade," "cleaner," "aerosol product," or "drug," is insufficient for determining mailability. To request a ruling on the mailability of restricted matter, furnish the information in 215.3 to the local postmaster.

If the matter for which the ruling is being requested has the physical characteristics of a toxic substance, flammable liquid, compressed gas, or other hazardous material, a ruling should be requested under the conditions in 215.2.

49 Animal-Fighting Ventures

491 **Definitions**

491.1 **Animal**

For the purposes of participating in an animal-fighting venture, the term "animal" refers to any live bird, dog, or other mammal (except human).

491.2 Animal-Fighting Accessory

The term "animal-fighting accessory" refers to a knife, gaff, or other sharp instrument attached to or designated or intended to be attached to the leg of a bird in an animal-fighting venture.

491.3 Animal-Fighting Matter

Animal-fighting matter refers to written, printed, or graphic matter (e.g., advertisements or other commercial speech) promoting or furthering an animal-fighting venture.

Restricted Matter 492

492 Mailability

a. The mailing of a live animal for the purpose of participating in an animal-fighting venture is prohibited regardless of whether such venture is permitted under a United States state, district, commonwealth, territory, or possession in which it is conducted. Violators can be subject to criminal penalties under 7 U.S.C. 2156. See DMM 601.9.3.1.

- b. The mailing of animal-fighting accessories as defined in 491 and DMM 601.11.21 is prohibited. Violators can be subject to criminal penalties under 7 U.S.C. 2156.
- c. The mailing of animal-fighting matter promoting or furthering an animal-fighting venture conducted in any state, except for a venture involving live birds permitted under the laws of the state in which they are conducted, is nonmailable. See DMM 601.12.5.7.

Hazardous, Restricted, and Perishable Mail

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5 Perishable Matter

51 Definition

Perishable matter is anything that can deteriorate in the mail and thereby lose value, create a health hazard, or cause an obnoxious odor, nuisance, or disturbance, under ordinary mailing conditions. Mailable perishable matter may be sent at the mailer's own risk when it is packaged as required and when it can be delivered within appropriate and reasonable time limits to prevent deterioration.

Examples of perishable matter include mailable types of live animals, food items, and plants.

52 Animals

521 General Requirements

The full cooperation of the mailer is essential in order to safely and effectively transport animals through the mail. The following factors are applied to all shipments of mailable live or dead animals:

- a. Protection of Postal Service employees and the public against harm from dangerous or diseased animals.
- b. Protection of the mail and the environment against the following:
 - (1) Damage to the shipping container or other mailpieces from either the animal or the refrigerant used (e.g., moisture or condensation from melting ice, or pressure build-up from dry ice).
 - (2) Obnoxious odors and noise.
- c. Protection of animals against death, or protection of animal specimens against spoilage, taking into account the following:
 - (1) Expected time in transit.
 - (2) Expected temperature in transit (weather conditions).
 - (3) Packaging, including insulation against impact, heat, cold, and preventing suffocation.
- d. Ability of an animal to survive without food or water during transport. Live animals must be transported without food or water, because liquids, moisture, and loose foodstuffs can cause damage to the shipping container, other mail, and Postal Service equipment during transport.

e. The ability of the Postal Service to provide transportation and delivery service. Mailers are urged to work with postmasters in providing advance notification of shipments of live animals. The Postal Service advises destination and transfer offices when any significant quantities of animals are moving in the mail. Postal Service field personnel should consider a 4-hour time limit on the period during which animals (especially bees, day-old poultry, and adult birds) may move in a regular, closed Postal Service vehicle.

522 Packaging and Markings

522.1 Container Construction

Shipping containers for mailable live animals must, at a minimum, be made of 275-pound test, double-wall, corrugated, weather-resistant fiberboard (W5c) or equivalent. Additional container requirements apply to mailable types of adult fowl and adult chickens, as specified in DMM 601.9.3.4 and 601.9.3.5.

522.2 Security and Ventilation

Containers must be constructed to prevent escape of animals, prevent the crushing of the container and contents during normal handling, and provide adequate ventilation for the animals at all times.

522.3 Marking

Each mailpiece must bear a complete return address and be marked on the address side with a description of the contents (e.g., "Live Animals," "Live Honey Bees," etc.). A mailpiece marked "If Undeliverable, Abandon" may not be accepted for mailing.

523 Acceptance for Mailing

A mailpiece containing live animals that cannot reach its destination in a viable condition should not be accepted. Factors that can be taken into consideration in assessing the viability of a mailpiece containing live animals include: use of proper packaging methods that protect against suffocation and crushing during transport; expected time in transit; and extreme weather conditions that exceed the normal weather pattern along the transportation route.

This provision does not give Postal Service personnel the authority to refuse mailable animals that are properly packaged or to impose local black-out periods based on temperature conditions, heavy mail volumes, etc. Acceptance personnel must have reasonable justification to refuse a mailpiece. Before refusing any mailpiece that contains a mailable type of animal, acceptance personnel are to confer with the manager, business mail entry, at their district office or with the PCSC, as appropriate.

524 **Disposal**

Any mailpiece containing live animals that cannot be delivered to the addressee or returned to the sender within 72 hours (for live, day-old poultry)

Perishable Matter 525.4

or within the delivery period marked on the parcel (for other mailable animals) must be disposed of immediately. For safety reasons, dispose of mailpieces not marked with a delivery period when it reasonably appears the articles cannot be delivered or returned in a viable condition. See POM 691.52 for disposal information. Also see 742.3 for the disposition of mailpieces that are refused by air carriers.

525 Nonmailable Live Animals

Nonmailable types of animals discovered in the mailstream must be reported to the PCSC in accordance with the instructions in POM 139.118. Additionally, the mailer and the post office of mailing must be notified to prevent future shipments from being incorrectly accepted for mailing.

525.1 Live Birds

Live birds, other than the type of day-old poultry specified in <u>526.31</u>, are nonmailable. In addition, day-old poultry vaccinated with Newcastle disease (live virus) is nonmailable. The following are some examples of nonmailable birds:

- Canaries.
- b. Cockatiels.
- c. Finches.
- d. Parakeets.
- e. Parrots.
- f. Adult birds, except those specifically permitted under the conditions in DMM 601.9.3.4 and 601.9.3.5.

Be aware that the preceding list is not all-inclusive. Generally, all types of birds not listed in DMM 601.9 are nonmailable.

525.2 Live, Warm-Blooded Animals

The following are examples of other live, warm-blooded animals that are nonmailable:

- a. Cats or kittens.
- b. Dogs or puppies.
- c. Guinea pigs.
- d. Hamsters.
- e. Mice.
- f. Rabbits.
- g. Rats.
- h. Squirrels and flying squirrels.

525.3 Reptiles

All snakes, turtles, and poisonous reptiles are nonmailable.

525.4 Poisonous Insects and Spiders

All poisonous insects and all spiders, except scorpions under limited circumstances (see <u>526.5</u>), are nonmailable. Other nonpoisonous and

non-disease-conveying insects are permitted as stated in DMM 601.9.3.9 and in Exhibit 526.6.

526 Mailable Live Animals

526.1 General

Some animals are mailable under proper conditions. See the specific instructions as noted for the following kinds of animals:

- a. Live bees, 526.2 and Exhibit 526.21.
- b. Live, day-old poultry, 526.3 and Exhibit 526.33.
- c. Live adult fowl, 526.4.
- d. Live scorpions (only under limited circumstances), <u>526.5</u> and <u>Exhibit</u> <u>526.5</u>.
- e. Other small, harmless, cold-blooded animals, 526.6 and Exhibit 526.6.

Note: Regarding dead animals or parts of animals, see <u>526.7</u> and Exhibit 526.7.

526.2 Live Bees

526.21 Mailability Requirements

Bees, including honeybees and queen honeybees, must be free of disease, as required under federal and state regulations. The following additional conditions apply:

- a. Honeybees. Honeybees are acceptable in the continental United States only via surface transportation (i.e., Parcel Post rates). Parcels of honeybees sent at Parcel Post rates must bear special handling postage. Mailpieces must be plainly marked on the address side with "Live Bees" and "Surface Only" or "Surface Mail Only."
- b. Queen Honeybees. Queen honeybees may be sent via air transportation (i.e., Express Mail, Priority Mail, or First-Class Mail rates) or surface transportation at Parcel Post rates. When sent at Parcel Post rates, the mailpiece must bear special handling postage. Mailpieces containing queen honeybees must be plainly marked on the address side with "Live Queen Bees."

Refer to Exhibit 526.21 for a general summary of the requirements for mailing live bees. Also see DMM 601.9.3.8.

Exhibit 526.21

Requirements for Mailing Live Bees

Live Bees

Contents must be either queen honeybees or honeybees. Bees must be securely packaged (see DMM 601.9.3.11) to provide adequate air and they must be kept within a tolerable temperature range at 40° to 100° F.



The use of insecticides must be eliminated in Postal Service areas that will be occupied by bee shipments.

Perishable Matter 526.32

Exhibit 526.21 Requirements for Mailing Live Bees

Air Transportation

- Only queen honeybees may be shipped by air transportation (i.e., Express Mail, Priority Mail, or First-Class Mail rates).
- Alert personnel to ensure the queen honeybees' timely and safe dispatch to, and arrival at, the destination.
- Equipment must be available for transportation up to the 4th zone. Advance arrangements must be made for shipment to addresses beyond the 4th zone.

Surface Transportation

- Any type of live honeybees may be shipped in the continental United States by surface transportation at Parcel Post rates.
- Alert personnel to ensure the honeybees' timely and safe dispatch to, and arrival at, the destination.
- Equipment must be available for transportation up to the 4th zone. Advance arrangement must be made for shipment beyond the 4th zone.

Claims for Bee Shipments 526.22

Indemnity claims (see DMM 609) for damage, partial loss, and loss of insured shipments of mailable bees are accepted only in the following situations:

- Death of the bees resulted from Postal Service handling after conditions for mailability were met and when there was strong likelihood that the shipment could have been safely transported.
- Contents were lost because of damage to the container while in Postal b. Service custody.
- The complete package was lost in the mail. c.
- d. Special handling was purchased as required under DMM 601.9.3.8.

526.3 Live, Day-Old Poultry

526.31 General

The following live, day-old animals are acceptable for mailing when properly packaged: chickens, ducks, emus, geese, guinea fowl, partridges, pheasants (only during April through August), quail, and turkeys. All other types of live, day-old poultry are nonmailable. Day-old poultry vaccinated with Newcastle disease (live virus) also is nonmailable.

526.32 **Mailability Requirements**

The specific types of day-old poultry named in 526.31 and DMM 601.9.3.2 are mailable subject to the following requirements:

- a. Poultry that is not more than 24 hours old and is presented for mailing in the original, unopened hatchery box from the hatchery of origin.
- b. Date and hour of hatching is noted on the box.
- Box is properly ventilated, of proper construction and strength to bear c. safe transport in the mail, and is not stacked more than 10 units high.
- d. Day-old poultry is mailed early enough in the week to avoid receipt at the office of address (in case of missed connections) on a Sunday, a national holiday, or the afternoon before a Sunday or national holiday.
- Day-old poultry can be delivered to the addressee within 72 hours of e. the time of hatching.

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- f. If day-old poultry is sent at a Parcel Post rate, special handling postage must also be paid.
- g. If day-old poultry is sent via air transportation (i.e., Express Mail, Priority Mail, or First-Class Mail), all provisions of the airlines must be met. Delivery of the mailpiece is dependent on the availability of air carriers having available equipment to safely deliver the day-old poultry within the specified time limit.
- h. Day-old poultry that is first shipped via a commercial air express or air cargo service and then presented for mailing to a final destination must be in good condition and properly packaged as specified in 526.32a-e.
- Boxes of day-old poultry of about identical size, securely fastened together to prevent separation in transit, may be accepted for mailing as a single parcel, provided the total length and girth combined does not exceed Postal Service limits.

See Exhibit 526.33, Requirements for Mailing Live, Day-Old Poultry. See Chapter 7 regarding domestic mail shipments sent via air transportation.

526.33 Claims for Live, Day-Old Poultry

Indemnity claims (see DMM 609) for damage, partial loss, and loss of insured shipments of mailable, live, day-old poultry are accepted only in the following situations:

- Death of the live, day-old poultry resulted from Postal Service handling after conditions for mailability were met and when there was strong likelihood that the shipment could have been safely transported.
- b. Contents were lost because of damage to the container while in Postal Service custody.
- c. The complete package was lost in the mail.
- d. Special handling was purchased as required under DMM 601.9.3.2f.

Perishable Matter 526.33

Exhibit 526.33 **Requirements for Mailing Live, Day-Old Poultry**

	wer each question and follow the instruction dicated.	YES	NO
1.	Is poultry live, day-old poultry, as listed in DMM 601.9.3.2?	If pheasants, they are mailable only during April through August. Go to No. 2.	If not day-old poultry, item is NONMAILABLE. If not poultry or not day-old, check other mailable animal types in DMM 601.9 to determine mailability.
2.	Was hatching time 24 hours ago or less?	Go to No. 3.	NONMAILABLE.
3.	Was poultry presented for mailing in original, unopened hatchery box from hatchery of origin?	Go to No. 4.	Do not accept.
4.	Are boxes properly ventilated and of proper construction and strength to bear safe transport in mail? Note: Boxes of approximately identical size, securely fastened to prevent separation in transit, may be accepted for mailing as a single parcel if the mailpiece does not exceed DMM limits for combined length and girth or exceed 70 pounds in weight.	Boxes are not to be stacked more than 10 units high. Go to No. 5.	Do not accept.
5.	Are the date and hour of hatching noted on box by representative of hatchery who has personal knowledge of facts?	Go to No. 6.	Do not accept.
6.	Did shipment originate at other office, or was it sent by air express or air cargo and then presented for mailing?	Before accepting, take special precautions to ensure that shipment is in excellent condition. Go to No. 7.	Go to No. 7.
7.	Is the shipment being mailed with special handling service charge in addition to regular postage, or at the First-Class Mail rate?	Go to No. 8.	Shipment must bear special handling service to be mailable, unless sent at the First-Class Mail rate.
8.	If shipment is COD, have all conditions for using COD service (as required in DMM 503.11) been met? If not COD, go to No. 9.	Go to No. 9.	If COD, do not accept unless all applicable requirements in DMM 503.11 are met.
9.	Is poultry being mailed sufficiently early in week to avoid arrival at the delivery post office on Sunday or holiday, or on afternoon preceding Sunday or holiday?	Go to No. 10.	Do not accept.
10.	Can poultry be delivered to addressee within 72 hours of time of hatching, regardless of whether addressee resides in town or on rural or highway contract route?	Accept for mailing.	Do not accept.

526.4 Adult Fowl

526.41 **General**

Disease-free adult fowl may be mailed domestically when shipped under applicable law in accordance with DMM 601.1.7. Adult chickens, turkeys, guinea fowl, doves, pigeons, pheasants, partridges, quail, ducks, geese, and swans are mailable when properly packaged. Adult fowl must be packaged without food or water because liquids, moisture, and loose foodstuffs can cause damage to the shipping container, other mail, and Postal Service equipment during transport.

526.42 Mailability Requirements

The specific types of adult fowl listed in <u>526.41</u> and DMM 601.9.3.4 are mailable only when sent by Express Mail service under the following conditions:

- a. The mailer must secure containers approved by the manager of Mailing Standards (see 608.8.0 for address).
- b. The number of birds per parcel must follow the container manufacturer limits, and each bird must weigh more than 6 ounces.

Note: A list of the names, addresses, and telephone numbers of the companies that manufacture Postal Service-approved containers is published periodically in the *Postal Bulletin* and can also be obtained from the PCSC.

526.43 Claims for Adult Fowl

Indemnity claims for mailable types of adult birds and chickens sent via Express Mail service are paid only for loss, damage, or rifling, and not for death of the animals while in transit, if there is no visible damage to the mailing container. See DMM 601.9 and 609.

526.5 Live Scorpions

The mailing of scorpions is limited by the restrictions in 18 U.S.C. 1716. Under this limitation, scorpions are mailable only when sent for the purposes of medical research use or the manufacture of antivenin. Scorpions are nonmailable under any other circumstances. See <u>Exhibit 526.5</u> and DMM 601.9.3.10 for mailing conditions that apply to permissible shipments.

Exhibit 526.5

Restrictions on Mailing Live Scorpions

Live scorpions are mailable only if EACH of the following conditions is met:

- 1. Must be for delivery only within the continental United States.
- 2. May be sent only by surface transportation.
- 3. Must be sent only for special purposes of either:
 - Medical research use.
 - Manufacture of antivenin.

Perishable Matter 526.6

Exhibit 526.5

Restrictions on Mailing Live Scorpions

Live scorpions are mailable only if EACH of the following conditions is met:

- Must be properly packaged prior to mailing, as follows:
 - Live scorpion is packed in a double container system, with each receptacle closed or fastened in such a way as to prevent escape.
 - Inner receptacle is made of material that cannot be punctured by a scorpion.
 - Inner receptacle is marked "Live Scorpion."
 - Cushioning material is used to prevent shifting of the inner receptacle.
 - Design of packaging is of sufficient strength, as required in DMM 601.9.3.11, to prevent crushing of the mailpiece or escape of the contents during normal Postal Service handling and transport.
 - Address side of mailpiece is clearly marked "Live Scorpion."

526.6 Small, Harmless, Cold-Blooded Animals

Small, harmless, cold-blooded animals, except for snakes, turtles, and turtle eggs, are mailable only when they meet certain requirements. For some examples, see Exhibit 526.6.

Exhibit 526.6

Requirements for Mailing Small, Harmless, Cold-Blooded Animals (Except Snakes, Turtles, and Turtle Eggs)

General Requirements:

All animals in this group:

- Must be able to reach their destination in good condition in the normal transit time between the mailing and address points.
- Must not require any food, water, or attention during transport.
- Must not create sanitary problems.
- Must not create obnoxious odors.

■ Animals must not exceed 20 inches in
length.
■ No additional requirements, except the
applicable standards in DMM 601.9.
■ Packaging must comply with
DMM 601.9.3.11.

Exhibit 526.6

Requirements for Mailing Small, Harmless, Cold-Blooded Animals (Except Snakes, Turtles, and Turtle Eggs)

Specific Requirements by Animal:				
Goldfish Tropical Fish	 Fish must be held in a securely sealed primary receptacle. Primary receptacle must be cushioned with sufficient absorbent material to take up all liquid in case of leakage. Primary receptacle and absorbent cushioning material must be sealed within waterproof outer (shipping) packaging. 			
Worms Bloodworms Hellgrammites Leeches Mealworms Snails	 No additional requirements, except the applicable standards in DMM 601.9. Packaging must comply with DMM 601.9.3.11. 			
Nonpoisonous Insects	 No additional requirements, except the applicable standards in DMM 601.9. Packaging must comply with DMM 601.3.9.11. 			

526.7 **Dead Animals or Parts of Animals**

Dead animals or parts of animals include two groups of items:

- a. Group A: Items that need to be refrigerated.
- b. Group B: Items that must be dried.

See Exhibit 526.7 for additional information on the conditions for mailing.

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Exhibit 526.7

Requirements for Mailing Dead Animals or Parts of Animal

GROUP A: Items that need to be refrigerated

Game birds, fish, or other animals to be used for food.

Animals or animal parts to be used in conservation studies or to be preserved by taxidermy. Mailable only when:

- Overall requirements for animals (see <u>521</u>) are met
- A proper refrigerant is used as follows:
 - Water ice. When water ice is used as a refrigerant, it must be packed like a liquid in a sealed, waterproof primary receptacle. The primary receptacle must be surrounded by absorbent cushioning material in a quantity sufficient to take up all water in the event of leakage. The primary receptacle and cushioning material must be securely packed within an outer (shipping) packaging.
 - Dry ice. When dry ice is used, it must be packaged as required in DMM 601.10.20. It must NEVER be placed in a sealed container. In addition, sufficient cushioning material must be used so that an inner container will not become loose inside the shipping container as the dry ice sublimates.
- Salt. The use of salt to retard spoilage can be effective.
- The mailpiece is properly addressed and marked as required under DMM 102 and DMM 601.9.

GROUP B: Items that must be dried

Dried furs, hides, skins, or pelts of wild animals.

Mailable only when such articles:

- Are properly dried or cured.
- Have no offensive odor.
- Are plainly marked and/or labeled on the address side with the full names and addresses of shipper and addressee, together with such endorsement(s) as may be required by state laws.
- Are securely packaged as required in DMM 601.9.5 to prevent harm to Postal Service employees and damage to the package contents or postal equipment.
- Are properly addressed and marked as required in DMM 102 and DMM 601.9.

53 Fresh Foods and Other Perishables

Fresh fruits and vegetables are nonmailable unless presented in a dry (not dried) condition. Other perishable foods that are capable of easily decomposing or that cannot reach their destination without spoiling are nonmailable. Packaging must be strong and securely sealed as required in DMM 601.1–8.

54 Eggs

Eggs are mailable in domestic mail subject to the following general conditions:

- They are individually cushioned.
- b. They are otherwise packed to withstand shocks encountered during normal Postal Service handling.
- c. They are not likely to be harmed by anticipated temperature changes while in Postal Service custody.

55 Meats and Meat Products

Meats and meat products are mailable in domestic mail only when they conform to regulations of the U.S. Department of Agriculture (USDA). Packaging must be strong and securely sealed as required in DMM 601.1–8.

If dry ice is used to cool meat or meat products during transport, the dry ice is subject to the mailing conditions in 349 and DMM 601.10.20.4.

56 Plants

561 General

The mailing of plants and plant products is subject to certain prohibitions and restrictions imposed by federal agricultural and conservation statutes. When these prohibitions and restrictions render the shipment of any plant or plant product as unlawful, then those plants are nonmailable. For more information, see DMM 601.9; Publication 14, Prohibitions and Restrictions on Mailing Animals, Plants, and Related Matter; and Publication 4, Importing Animal and Plant Products Through Overseas Military Post Offices.

562 Quarantines

The USDA imposes quarantines on specific plants to prevent the introduction of agricultural diseases or pests into the United States and to prevent their spread from one part of the United States to another.

562.1 Types of Quarantines

There are domestic quarantines that apply to the continental United States; other quarantines that apply to Hawaii, Puerto Rico, and the U.S. Virgin Islands; and others that apply to other territories and possessions. The quarantines prevent the spread of specific diseases and pests. Any plant or plant matter that is under quarantine is nonmailable.

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562.2 Specific Information

Plant quarantines cover a great variety of plant diseases and pests, and all areas of the country. For more specific information, consult Publication 14, *Prohibitions and Restrictions on Mailing Animals, Plants, and Related Matter.*

562.3 Inspection

Plants under quarantine by the USDA may be moved from the quarantine areas only after being inspected and after a permit or certificate is issued. Refer to ASM 274.9 regarding USDA inspection of mail.

563 Packaging and Marking

563.1 General

Wettable packing materials and roots or butts of plants must be wrapped or boxed in a waterproof material. The material must be heavy enough to retain the moisture content needed for the roots of the plants without weakening the strength of the box, and must be able to withstand Postal Service handling without leakage or loss of the packing material or contents. Waterproof material means one of the following:

- a. Tar-centered paper.
- b. Kraft paper waxed on one side.
- c. Kraft paper with a waxed or tarred paper liner.
- d. Plastic wrap.

563.2 Securing Tops of Bundles

The tops of all bundles must be wrapped with a covering of paper, straw, or similar material to protect the plant from injury or drying out. If the plant has thorns or pointed projections, the wrapper must be puncture proof.

564 Further Information

For further information about specific plants or diseases, or about requirements for international shipments, consult the local county agriculture agent or the following federal agency:

ANIMAL AND PLANT HEALTH INSPECTION SERVICE US DEPARTMENT OF AGRICULTURE 4700 RIVER RD RIVERDALE MD 20737-1228

57 Nonmailable Plant Pests, Injurious Animals, and Illegally Taken Fish or Wildlife

571 General

Under the respective provisions in 39 U.S.C. 3015(a), (b), or (d), the following items are nonmailable:

- a. Any injurious animal, the importation or interstate shipment of which is prohibited under 18 U.S.C. 42.
- b. Any plant pest, the movement of which is prohibited under section 103 or 104 of the Federal Plant Pest Act (7 U.S.C. 150bb or 150cc).
- c. Any fish or wildlife, the conveyance of which is prohibited under section 3 of the Lacey Act Amendments of 1981 (16 U.S.C. 3372).

For more information, see Publication 14, *Prohibitions and Restrictions on Mailing Animals, Plants, and Related Matter.*

572 Criminal Penalties

Criminal penalties are specified in 18 U.S.C. 1716d for mailing anything that is nonmailable under 39 U.S.C. 3015(a), (b), or (d).

6 International Mail

61 General

This chapter contains information and guidelines on the mailability of hazardous materials, restricted matter, and perishable matter that may be sent as international mail. Additional information on these subjects is contained in chapters 3, 4, and 5; in *Mailing Standards of the United States Postal Service*, International Mail Manual (IMM®) 135–138; and in DMM 601.9-601.11.

The primary mailing regulations on which these guidelines are based are found in the IMM and DMM.

62 Hazardous Materials: International Mail

General Requirements

621.1 Mailing Conditions

In international commerce, the term "dangerous goods" is commonly used to describe hazardous materials.

Almost all hazardous materials are prohibited in international mail. The only mailable hazardous materials are certain infectious substances, excepted quantities of radioactive material that are allowed in domestic mail, certain magnetized materials, and certain lithium and lithium-ion batteries. See Exhibit 621.1 for a summary of the types of hazardous materials that are eligible for mailing in international mail.

In certain situations, the few types of hazardous materials that are generally permitted in international mail may be further restricted by the mailing limitations imposed by an individual country. Because individual countries have unique prohibitions and restrictions, it is always necessary to consult the Individual Country Listings in the IMM to be certain that an otherwise mailable hazardous material is acceptable for shipment to a specific country.

Exhibit 621.1 **DOT Hazard Classes and Mailability for International Mail**

		International Mail APO & FPO	
Hazard Class	Name of Hazard Class (and Division when applicable)	Air Transportation	Surface Transportation
1	Explosives	Prohibited	Prohibited
2	Gases	Prohibited	Prohibited
3	Flammable and Combustible Liquids	Prohibited	Prohibited
4	Flammable Solids	Prohibited	Prohibited
5	Oxidizing Substances, Organic Peroxides	Prohibited	Prohibited
6	Toxic Substances and Infectious Substances		
	Division 6.1: Toxic Substances	Prohibited	Prohibited
	Division 6.2: Infectious Substances	Only registered First-Class Mail International, Express Mail International, or Global Express Guaranteed mail per limits in 622.3 and IMM 135	Prohibited
7	Radioactive Materials	Only registered First- Class Mail International per limits in 622.3 and IMM 135.5	Prohibited
8	Corrosives (liquids and solids)	Prohibited	Prohibited
9	Miscellaneous Hazardous Materials	Prohibited, except for magnetized materials per 622.4 and lithium or lithium-ion batteries per 622.5	Prohibited, except for magnetized materials per 622.4 and lithium batteries per 622.5

621.2 Hazard Classes

The nine classes of hazardous materials listed in <u>331</u> also apply to dangerous goods shipped in international commerce.

The non-Postal Service regulations that govern the air shipment of hazardous materials (dangerous goods) in international commerce are specified in the *Technical Instructions for the Safe Transport of Dangerous Goods by Air* of the International Civil Aviation Organization (ICAO). In 49 CFR, DOT recognizes ICAO requirements for the air transportation of hazardous materials. However, 49 CFR gives DOT the authority to regulate only the domestic transportation of hazardous materials. Generally, most air carriers follow the *Dangerous Goods Regulations* of the International Air Transport Association (IATA), and those regulations are slightly more restrictive than the ICAO rules.

621.3 ORM-D Materials

The ORM-D classification is unique within domestic commerce in the United States and is not recognized in international commerce. Hazardous materials that are mailable in domestic mail as ORM-D materials are prohibited in the international mail.

International Mail 622.2

621.4 APO/FPO Mail

Mailpieces containing hazardous materials for delivery to overseas military post office (APO/FPO) addresses are required to meet the standards that apply for shipping hazardous materials in international mail. See DMM 703.2.

Mailable Hazardous Materials

622.1 General

As shown in Exhibit 621.1, almost all hazardous materials are prohibited in international mail. Under specific circumstances, only biological substances, limited amounts of radioactive materials, and certain magnetized materials are eligible to be sent in international mail.

622.2 Biological Substances, Division 6.2

Infectious and noninfectious biological substances are permitted in international mail subject to the provisions that apply to domestic mail in 346.2 and DMM 601.8. In addition, the following requirements apply:

- Biological substances are prohibited from international mail by certain countries. To determine if a prohibition exists for a specific country, check the Individual Country Listings in the IMM.
- Mailable infectious substances must be sent by registered First-Class
 Package International Service using Registered Mail service.

 Nonregulated materials defined in 346.234 and exempt human or animal specimens defined in 346.12d are mailable by First-Class Package
 International Service when properly packaged as described in 346.32.
- c. Biological substances can be sent to or received by only the following types of institutions when permission has been granted:
 - (1) Laboratories of local, state, and federal government agencies.
 - (2) Laboratories of federally licensed manufacturers of biological products derived from bacteria and viruses.
 - (3) Laboratories affiliated with or operated by hospitals, universities, research facilities, and other teaching institutions.
 - (4) Private laboratories licensed, certified, recognized, or approved by a public authority.

Permission to mail biological substances must be obtained prior to mailing. Qualifying institutions wishing to mail biological substances must submit a written letter of application on its organizational letterhead to the following address:

MANAGER PRODUCT CLASSIFICATION US POSTAL SERVICE 475 L'ENFANT PLZ SW RM 4446 WASHINGTON DC 20260-4446

The application must state the institution's nature of work, the identity and qualifications of the prospective recipient, and the number of packages to be mailed.

- d. Mailable infectious substances are limited to 50 ml for liquids or 50 g for solids, per mailpiece and must be packaged in accordance with Packaging Instruction 6C in Appendix C, DMM 601.10.17.5, and the additional requirements in IMM 135.31 and 135.41.
- e. Nonregulated materials and exempt human or animal specimens must be packaged in accordance with Packaging Instructions 6G and 6H in Appendix C, DMM 601.10.17, and the additional requirements in IMM 135.32 and 135.42.
- f. A shipper's declaration for dangerous goods is required. See <u>326</u> and 725.3.

622.3 Radioactive Materials, Class 7

Class 7 radioactive materials are permitted in international mail subject to the limits in 347 and the following conditions:

- Radioactive materials may be sent only to those countries that have expressed a willingness to accept them. For specific details, consult the Individual Country Listings in the IMM.
- b. Each radioactive materials shipment must be sent as a registered airmail letter package.
- Each shipment must comply with both the International Atomic Energy Agency Regulations and the specifications contained in <u>347</u> and this section.
- d. Mailable radioactive materials must be packaged in accordance with Packaging Instruction 7A in Appendix C and the requirements specified in IMM 135.5.
- e. The sender and recipient of each radioactive materials shipment must receive prior authorization from the appropriate regulatory authorities within their countries.
- f. A white package label bearing the French words "Matieres Radioactives" (Radioactive Materials) must be securely affixed, taped, or gummed to the address side of each mailpiece containing radioactive materials. The sender is responsible for supplying and affixing this label to the mailpiece.
- g. The address side of each mailpiece must bear the following endorsements in bold letters: "Return to Sender in Case of Nondelivery" and "Radioactive Materials, Quantities Permitted for Movement by Post."
- h. A shipper's declaration for dangerous goods is required. See <u>326</u> and <u>725.3</u>.

622.4 Magnetized Materials

Magnetized materials, as defined in <u>349.24</u>, are prohibited in international mail except for those that cannot cause a compass deviation at a distance of 7 feet or more. Mailable magnetized materials must be prepared for mailing following Packaging Instruction 9B in Appendix C.

International Mail 622.52

622.5 Lithium and Lithium-ion Cells and Batteries — General

Only lithium batteries under 622.51 and 622.52 that are properly installed in the equipment they operate may be sent internationally or to and from an APO, FPO, or DPO location, if permitted by the international destination country or APO, FPO, or DPO location. Lithium batteries that are *packed with* the equipment or lithium batteries *sent separately* from equipment are prohibited. Damaged or recalled batteries are prohibited and may not be mailed internationally under any circumstances.

622.51 Primary Lithium (Non-Rechargeable) Cells and Batteries

Small consumer-type primary lithium cells or batteries (lithium metal or lithium alloy) like those used to power cameras and flashlights are mailable in a single shipment with the following restrictions:

- a. The batteries must be installed in the equipment being shipped.
- b. Each shipment may contain a maximum of four lithium cells or two lithium batteries.
- c. The lithium content must not exceed 1 gram (g) per cell.
- d. The total aggregate lithium content must not exceed 2 g per battery.
- e. The batteries installed in the equipment must be protected from damage and short circuit.
- f. The equipment must be equipped with an effective means of preventing it from being turned on or activated.
- g. The equipment must be contained in a strong sealed package and cushioned to prevent movement or damage.

622.52 Secondary Lithium-ion (Rechargeable) Cells and Batteries

Small consumer-type lithium-ion cells and batteries like those used to power cell phones and laptop computers are mailable in a single shipment with the following restrictions:

- a. The batteries must be installed in the equipment being shipped.
- b. Each shipment may contain a maximum of four lithium-ion cells or two lithium-ion batteries.
- c. The lithium content must not exceed 20 Watt-hour rating (Wh) per cell.
- d. The total aggregate lithium content must not exceed 100 Wh per battery.
- e. Each battery must bear the "Watt-hour" or "Wh" marking on the battery to determine if it is within the limits defined in items c and d.
- f. The batteries installed in the equipment must be protected from damage and short circuit.
- g. The equipment must be equipped with an effective means of preventing it from being turned on or activated.
- h. The equipment must be contained in a strong sealed package and cushioned to prevent movement or damage.

Nonmailable Hazardous Materials

The following types of hazardous materials, as defined in chapter 3, DMM 601.10, and IMM 135–136, are prohibited in international mail:

- Class 1, explosives (including explosive devices) (<u>341</u> and DMM 601.10.11).
- b. Class 2, gases (342 and DMM 601.10.12).
- c. Class 3, flammable and combustible liquids (343 and DMM 601.10.13).
- d. Class 4, flammable solids including matches (344 and DMM 601.10.14).
- e. Class 5, oxidizing substances and organic peroxides (345 and DMM 601.10.15).
- f. Class 6, Division 6.1, toxic substances (including irritants) (346 and DMM 601.10.16).
- g. Class 6, Division 6.2, infectious substances (346 and DMM 601.10.17), except as permitted in 622.2.
- h. Class 7, radioactive materials (<u>347</u> and DMM 601.10.18), except as permitted in 622.3).
- i. Class 8, corrosives (348 and DMM 601.10.19).
- j. Class 9, miscellaneous hazardous materials (349 and DMM 601.10.20).
- k. Dry ice (carbon dioxide solid) (349.23 and DMM 601.10.20.4).
- Magnetized materials capable of causing a compass deviation at a distance of 7 feet or more (349.24 and DMM 601.10.21). See 122.4 for mailable magnetized materials.
- m. ORM-D materials (333 and 121.3).

63 Restricted Matter: International Mail

631 APO/FPO Mail

Mailable restricted matter sent from, to, or between overseas military post offices (APOs/FPOs) must meet the requirements for international mail because military mail is often diverted to air transportation when space is available or when surface transportation is not available. See DMM 703.2.

632 Firearms

The requirements and prohibitions that apply to the mailing of firearms in domestic mail, as stated in chapter 4 and DMM 601.11, also apply to international mail subject to any restrictions in the Individual Country Listings in the IMM. The mailer must obtain an export license for mailing the following firearms:

- Nonautomatic and semiautomatic rifles, carbines, revolvers, and pistols (regardless of caliber), except those of .50 caliber or less manufactured before 1898.
- b. Shotguns with barrels less than 18 inches long.

International Mail 632.2

 All machine guns, submachine guns, machine pistols, and fully automatic rifles.

To obtain an export license, mailers should contact the following federal agency:

U.S DEPARTMENT OF STATE PM/DTC STE 1200 SA-1 2401 E ST NW WASHINGTON DC 20037-2915

Telephone: 202-663-2980

632.1 Export to APOs/FPOs

Export of firearms to certain specified overseas military post offices (APOs/FPOs) is prohibited. To determine if the mailing of firearms to a specific APO or FPO is prohibited, refer to the table titled "Conditions Applied to Mail Addressed to Military Post Offices Overseas," which is published periodically in the *Postal Bulletin*. Footnote F of this table lists the restrictions for mailing firearms. If the destination military post office permits the shipment of firearms (if no Footnote F restrictions are assigned to the specific APO or FPO), the mailer must present an export license obtained from the regional ATF office.

632.2 **Import**

Under the following conditions, members of the armed forces may mail rifles or shotguns without an import permit:

- a. Incident to a permanent change of duty or release from active duty, any member of the armed forces who has been stationed on active duty outside the United States for the preceding 60 days may, without an import permit, present up to three rifles or shotguns that are mailable under DMM 601.11 to the appropriate armed forces transportation officer to be forwarded to the member's residence as unaccompanied baggage officially shipped through the mail. Firearms imported in this manner must be intended for the member's personal use.
- Any member of the armed forces who wishes to import more than three firearms mailable under DMM 601.11 must prepare ATF Form 6,
 Application and Permit for Importation of Firearms, Ammunition, and Implements of War, and must comply with Department of Defense (DOD) Regulation 5030.49-R and other appropriate military directives.
- c. The three-firearm limitation does not apply to firearms mailable under DMM 601.11 for which the member of the armed forces has proof of prior ownership in the United States. A member may personally mail these other firearms back into the United States, or to any of its possessions, if the member can establish to the satisfaction of the U.S. Customs Service that he or she previously took the firearms out of the United States or any of its possessions.
- d. Any member of the armed forces importing firearms under a, b, or c of this section must prepare ATF Form 6A, *Release and Receipt of Imported Firearms, Ammunition, and Implements of War*, under

27 CFR 178.114(b). In addition, the member's authorized agent must furnish this form and associated certification to the customs officer releasing the firearms.

633 Knives and Sharp Instruments

Knives and sharp instruments permitted to be mailed in domestic mail under DMM 601.11.5 may be mailed in international mail as permitted in the conditions specified for the Individual Country Listings in the IMM.

634 Drugs

Drugs that are admissible in domestic mail (see chapter 4) are also acceptable in international and military mail, provided there is no specific exclusion by the destination country or destination military post office.

635 Controlled Substances

Controlled substances are not acceptable in international mail. Controlled substances addressed to military post offices are subject to the prohibitions in DMM 703.2.3.1, in addition to all requirements that apply to domestic mail, as contained in chapter 4 and DMM 601.11.11.

636 Other Restricted Matter

The restricted materials listed in DMM 601.12.7 through 601.12.20 are prohibited in international mail, unless specifically permitted in the Individual Country Listings in the IMM. The restricted materials include intoxicating liquor; matter emitting obnoxious odor, liquids and powders, motor vehicle master keys, battery-powered devices, odd-shaped items in letter-size envelopes, abortive and contraceptive devices, and building construction material.

64 Perishable Matter: International Mail

641 APO/FPO Mail

Mailable perishable matter sent from, to, or between overseas military post offices (APOs/FPOs) must meet the requirements for international mail because military mail is often diverted to air transportation when space is available or when there is an absence of surface transportation. See DMM 703.2.3.1

642 **Animals**

Most live animals are nonmailable in international mail. The only mailable types of animals are the following:

- a. Live bees, leeches, and silkworms, when properly packaged and labeled. See chapter 5.
- b. Thoroughly dried dead insects or reptiles.

International Mail 643.21

- c. Parasites and predators of injurious insects, provided all of the following conditions are met:
 - (1) The parasites and predators of injurious insects are permitted in domestic mail.
 - (2) They are useful in controlling harmful insects.
 - (3) They are exchanged by officially recognized scientific or health agencies.
 - (4) They are sent in letter packages or as small packets.
 - (5) They are securely packaged in containers conforming to the requirements for domestic mail.

643 Eggs

643.1 Fresh Eggs

Eggs may be mailed in international mail via Priority Mail International™ service only as follows:

- For shipments to all countries except Canada, eggs must be packed in the following manner:
 - Each egg must be packed in sufficient cushioning material.
 - (2) Eggs must be shipped in a metal egg container.
 - (3) The metal egg container must be enclosed in an outer container of wood with sufficient cushioning material packed between the inner and outer containers.
- b. For shipments to Canada, eggs must be packed in the following manner:
 - (1) Each egg must be wrapped in protective material and placed on end.
 - (2) Eggs must be either packed in the manner prescribed for other countries in <u>643.1a</u> or packed in a wooden, papier-mâché, or other box of rigid material having a well-fitting, tightly adjusted lid.
 - (3) Vacant space in the box must be filled with packing material to prevent eggs from striking together or against the sides, top, or bottom of the box.

643.2 **Dried Whole Eggs**

643.21 Commodity Credit Corporation Endorsement

Dried whole eggs purchased under the USDA's Commodity Credit Corporation program must carry an endorsement by the exporter or authorized representative waiving any right to withdraw the parcel from the mail or to have it returned. The endorsement must be written or stamped on the address side of each mailpiece. These mailings may be made by Priority Mail International service only.

643.22 Certificate

A certificate using the format shown in IMM Exhibit 553.121 (and repeated here as Exhibit 643.22) must be prepared and completed by the sender, and presented at the time of mailing. The following conditions also apply:

- a. A single certificate may cover any number of mailpieces presented by the same sender and in the same mailing, even if the mailpieces are addressed to different countries.
- b. A charge (see IMM 552) is made for each certificate or each parcel (if a single certificate covers more than one parcel).
- c. Postage to cover the certificate charge must be affixed to the certificate and canceled with the postmark of the office of mailing.
- d. After being postmarked, the certificate must be signed by the postmaster (or designee) and returned to the sender.

Exhibit 643.22

Certificate of Mailing Dried Whole Eggs

CERTIFICATE OF MAILING DRIED WHOLE EGGS							
I hereby certify that there has (have) been posted at this Post Office facility today by (Sender), parcels containing a total of (Number) pounds of dried whole eggs on which the sender has waived the right to withdraw same from the mail or have same returned.							
Parcels addressed to							
(Name and addresses of addressees)							
(Office st (Date	' '	(Postmaster)					
	Ву						

644 Plants

Plants, seeds, and plant materials, including fruits and vegetables, are subject to the provisions for domestic mail in DMM 601.9 and Publication 14, *Prohibitions and Restrictions on Mailing Animals, Plants, and Related Matter.* The quarantine regulations of the destination country also apply. Mailers can obtain information by contacting the USDA at the following address:

ANIMAL AND PLANT HEALTH INSPECTION SERVICE US DEPARTMENT OF AGRICULTURE (USDA) 4700 RIVER RD RIVERDALE MD 20737-1228

International Mail 645

Fresh Foods and Other Perishables

Fresh meats, fruits, vegetables, and other items that are capable of easily decomposing or cannot reasonably be expected to reach their destination without spoiling are nonmailable in international mail. Consult the Individual Country Listing in the IMM for specific restrictions or prohibitions.

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7 Air Transportation Requirements

71 General

This chapter contains information and guidelines on the mailability of hazardous materials, restricted matter, and perishable matter in domestic mail via air transportation. (For International, APO/FPO mail see chapter 6.)

Full compliance with the regulations governing the shipment of harmful matter by air transportation is essential because these materials can endanger postal employees, airline passengers and personnel, aircraft equipment, and postal equipment and facilities.

For the purposes of this chapter, air transportation requirements apply to all mailable hazardous materials, restricted matter, and perishable matter sent at an Express Mail, Priority Mail, or First-Class Mail rate of postage.

72 Hazardous Materials: Air Transportation

721 General Requirements

For domestic mail sent via air transportation, a mailpiece containing a hazardous material must:

- a. Consist of a material that is permitted to be transported by air.
- b. Be prepared and packaged under all applicable conditions for transport by air.
- Be sent at an Express Mail, Priority Mail, or First-Class Mail rate of postage.

Hazardous materials are not acceptable for air transportation if they are not prepared in compliance with the specific applicable requirements. These requirements consider the degree of hazard, quantity of material, method of packaging, required shipping papers, and adequacy of labels and/or markings required for carriage aboard an aircraft.

Chapter $\underline{3}$ and the Packaging Instructions in Appendix \underline{C} , along with the mailing standards in DMM 601.10, provide full details of the conditions under which mailable hazardous materials may be sent in domestic mail via air transportation.

722 Additional Requirements

722.1 APO/FPO Mail

All hazardous materials sent to, from, or between overseas military post offices (APOs/FPOs) or sent as space available mail (SAM) or parcel airlift (PAL) service must be eligible for and properly prepared for air transportation. See chapter <u>6</u> and DMM 702.2.0 for information on air transportation and other restrictions affecting APOs/FPOs, SAM, and PAL service.

722.2 ZIP Codes Served Only by Air Transportation

Hazardous materials that are prohibited from mailing via air transportation cannot be mailed to any ZIP Code that is serviced only by air transportation (e.g., certain ZIP Codes in Alaska and other islands serviced by air only).

722.3 Air Transportation Prohibitions

The following types of hazardous materials are prohibited from transport via aircraft under any circumstances:

- a. Explosives other than Division 1.4S, small rocket motors, igniters, and safety fuse.
- Anything susceptible to damage or that can become harmful because
 of changes in temperature or atmospheric pressures, unless protected
 against the effects of such changes.
- Magnetic material that has a field strength sufficient to cause a compass deviation at a distance of 7 feet or more from any point on the outer packaging.
- d. Flammable materials (gases, liquids, and solids).
- e. Radioactive materials.
- f. Hazardous materials excluded from air shipment by the regulations of 49 CFR 100-185, or by the applicable country or air carrier operator variations.

723 Hazardous Materials Warning Labels

See 325 for information on hazardous materials warning labels. Parcels displaying any of the DOT warning labels shown in Exhibit 325a are prohibited because items required to bear those warning labels contain hazardous materials or quantities of hazardous materials that possess too great a risk to be safely handled in the mail. Parcels displaying any of the labels shown in Exhibit 325b are permitted to be mailed within specific limits set by the Postal Service and as defined in chapter 3 and DMM 601.10.

724 ORM-D AIR Materials

Hazardous materials permitted to be sent in domestic mail via air transportation must qualify as ORM-D AIR Consumer Commodity materials, except for the few materials specified in 322 and Exhibit 331. See 333 for more information on ORM-D materials.

To be acceptable for air transportation, an ORM-D AIR Consumer Commodity material must be eligible for shipment via air and must be properly packaged and marked. The mailpiece must also bear a shipper's declaration for dangerous goods as required in 326 and 725.3.

725 Mailer Responsibility

725.1 **General**

Full responsibility rests with the mailer to comply with all Postal Service and non-Postal Service laws and regulations regarding the mailing of hazardous materials. Anyone who mails, or causes to be mailed, a nonmailable or improperly packaged hazardous material can be subject to legal penalties, including, but not limited to, those specified in 18 U.S.C.

725.2 Warning Labels and Marking Requirements

With few exceptions, as noted in these standards, most hazardous materials acceptable for mailing fall within the Other Regulated Materials (ORM-D) regulations of CFR 49 173.144, which do not require DOT hazard class warning labels. Except for Division 6.2 materials under DMM 601.10.17.5 and dry ice under DMM 601.10.20.4, any hazardous material bearing or required to bear a DOT hazard class warning label under the requirements in 49 CFR is prohibited from mailing. Mailable ORM-D material must be marked as required in DMM 601.10.8. Mailable hazardous material must bear DOT handling labels (such as, orientation arrows, magnetized materials) when applicable. The following also apply:

- a. Each mailpiece containing a mailable hazardous material must be plainly and durably marked on the address side with the required shipping name and UN identification number. The UN identification number is not required on a mailpiece that contains ORM-D material. Mailable ORM-D material must be marked on the address side with "ORM-D" or "ORM-D AIR," as applicable, immediately following or below the proper shipping name. The proper shipping name for a mailable ORM-D material is "consumer commodity." The designation "ORM-D" or "ORM-D AIR," as required, must be placed within a rectangle that is approximately 6.3 mm (1/4 inch) larger on each side than the designation. Mailable ORM-D materials sent as Standard Mail, Parcel Select, or Package Services must also be marked on the address side as "Surface Only" or "Surface Mail Only."
- b. Optionally, mailable limited quantity or mailable ORM-D material may be marked with an approved DOT limited quantity square-on-point marking (see <u>Exhibit 325b</u>). The plain square-on-point marking is used for shipments sent by surface transportation, and the square-on-point marking including the symbol "Y" superimposed in the center is used for shipments sent by air transportation. The following also apply:
 - (1) Markings must be durable, legible, and readily visible.
 - (2) The marking must be applied on at least one side or one end of the outer packaging. The border forming the square-on-point must be at least 2 mm in width, and the minimum dimension of

- each side must be 100 mm, unless the package size requires a reduced size marking of no less than 50 mm on each side.
- (3) For surface transportation, the top and bottom portions of the square-on-point and the border forming the square-on-point must be black, and the center must be white or of a suitable contrasting background. Surface shipments containing qualifying ORM-D material bearing the square-on-point limited quantity marking are not required to be marked with the shipping name and identification number.
- (4) For transportation by aircraft, the top and bottom portions of the square-on-point and the border forming the square-on-point must be black, and the center must be white or of a suitable contrasting background. The symbol "Y" must be black, located in the center of the square-on-point, and clearly visible. Mailpieces intended for transport by air must also be marked with the proper shipping name and identification number, and must also display the appropriate DOT hazardous material warning label (only when required for the hazard class shipped, see <u>Exhibit 325c</u>).

725.3 Shipping Papers

Most mailable hazardous materials (including ORM-D AIR materials) must be accompanied by a Shipper's Declaration for Dangerous Goods (shipping paper, see 326). To determine which mailable hazardous materials require a shipping paper when sent via air transportation, refer to the appropriate sections in chapter 3, the appropriate Packaging Instruction in Appendix C, and DMM 601.10.

The shipping paper must be properly completed and signed in triplicate by the mailer. It must bear a red candy-striped border and the exact format and same basic wording as shown in <u>Exhibit 326</u>. The shipper's declaration must be properly prepared, as required by 49 CFR 172.200 through 172.205, which, in part, requires the following information:

- a. Proper shipping name of material.
- b. Hazard class.
- c. UN or NA identification number, as applicable.
- d. The quantity and type of packaging.
- e. The packaging instruction used.
- f. The full name, address, and telephone number of the shipper or consignee.
- g. The signed shipper's certification statement.

Neither the Postal Service nor DOT stocks or furnishes shipper's declaration forms. Mailers may obtain them from commercial printers, Internet-based retailers, safety supply stores, or stationery stores.

725.4 Addressing

The full names and addresses of both the sender and the addressee must appear legibly on the address side of the mailpiece, in accordance with DMM 602.

726 Postal Service Handling

726.1 Acceptance Personnel

In addition to the basic guidelines in <u>251</u>, acceptance personnel must follow the Aviation Mail Security Hazardous Materials Program Instructions for the acceptance of hazardous materials. Ensure the following:

- a. Each mailpiece presented contains a mailable hazardous material that is properly packaged and labeled.
- b. If required, the mailpiece bears the required shipper's declaration for dangerous goods (see <u>326</u> and <u>725.3</u>).
- c. The mailpiece is eligible for air transportation and postage is paid at the Express Mail, Priority Mail, or First-Class Mail rates, as permitted.

Note: For safety reasons, mailpieces containing hazardous materials that are not eligible for air transportation cannot pay postage at an Express Mail, Priority Mail, or First-Class Mail rate and must be marked "Surface Mail" or "Surface Mail Only."

726.2 **Dispatch Personnel**

In addition to the basic guidelines in <u>252</u>, Postal Service personnel involved with mail dispatch via air transportation must follow the Aviation Mail Security, Hazardous Materials Program Instructions and the POM. These policy statements provide interim field instructions for handling mailpieces containing hazardous materials within mail processing areas and the proper tendering of such mail to the air carriers.

727 Refusal by Air Carrier

727.1 Air Carrier Policy or Pilot's Decision

Although a mailpiece containing a mailable hazardous material may be properly prepared for air transportation under Postal Service mailing requirements, an individual pilot may refuse it. Nonmailable or improperly prepared mailpieces can also be rejected by an air carrier when tendered for shipment. Refusals can result from the following situations:

- The air carrier is not authorized to carry hazardous materials under the provisions of the Federal Aviation Administration (FAA) Operator's Certificate.
- b. The air carrier's corporate policy prohibits carrying hazardous materials.
- c. The pilot of an individual flight rejects any mailpieces perceived as questionable or unsafe. Pilots have the right to refuse the boarding and transport of questionable articles that could interfere or prevent the safe operation of the aircraft under Federal Air Regulations (FAR).

- d. The mailpiece contains a nonmailable hazardous material that was mistakenly accepted or deposited in the mailstream.
- e. The mailpiece is not properly packaged, marked, or labeled for air transportation.
- f. The mailpiece does not carry a properly completed shipper's declaration for dangerous goods.
- g. The mailpiece is unidentified as to its contents and appears to contain a hazardous material.

727.2 Handling of Mailpieces Refused by an Air Carrier

All mailpieces containing hazardous materials that are refused by an air carrier must be handled as follows:

- a. If the mailpiece is damaged or leaking, contact the local facility's safety officer or designee for assistance. The procedures in the facility's Spill/ Leak SOP and Handbook EL-812 must be followed. A PS Form 1770 is required to be completed and filed.
- b. Complete PS Form 2759, Report of Irregular Handling of Mail, for internal Postal Service information only and distribute copies to the appropriate Postal Service offices. Include the name and address of the mailer, the type and amount of hazardous material, and the reason for the air carrier's refusal.
- If the mailpiece contains a nonmailable or improperly packaged hazardous material, immediately follow the reporting procedures in POM 139.117–118 and the Aviation Mail Security Hazardous Materials Program Instructions
- d. If the mailpiece contains a mailable hazardous material that is properly packaged, labeled, and marked, attempt to contact the mailer. If the mailer can be reached, advise the mailer that the item has been refused by the air carrier and offer to divert to surface transportation or return to sender. If the mailer agrees to divert to surface, apply Label 127, Surface Transportation Only, and immediately dispatch the mailpiece to the destination via the most expeditious means of surface transportation.
- e. If the mailer cannot be contacted, or if the mailer does not wish to have the mailpiece rerouted via surface transportation, or if the mailpiece cannot be rerouted via surface transportation to the delivery address, do the following:
 - (1) Endorse the address side of the mailpiece "Refused for Air Transportation by Air Carrier" and note the name of the airline, flight number, and reason for refusal.
 - (2) Correct the markings on the mailpiece to read "Surface Mail Only," and return the mailpiece to the sender via surface transportation (if permitted).
 - (3) Apply Label 127, Surface Transportation Only, and immediately dispatch the mailpiece to the destination via the most expeditious means of surface transportation
 - (4) Provide the mailer with instructions on how to obtain a refund of the postage charges because service was not provided.

(5) Complete PS Form 2759, Report of Irregular Handling of Mail, for internal Postal Service information only and distribute copies to the appropriate Postal Service offices. Do not send a copy to the mailer. Include the name and address of the mailer, the type and amount of hazardous material, and the reason for the air carrier's refusal.

727.3 Nonmailable or Improperly Prepared Mailpieces

Mailpieces containing nonmailable or improperly packaged hazardous materials that were inadvertently accepted for mailing should be stopped where identified and not presented to an air carrier. They should be handled in accordance with the Aviation Mail Security Hazardous Materials Program Instructions. Additionally, to prevent future shipments from being incorrectly accepted for mailing, notify the mailer and the post office of mailing of the problem.

728 Spills and Leaks

The standard procedures to be followed by Postal Service personnel for dealing with spills and leaks are specified in Management Instruction EL-810-96-1, Response to Hazardous Materials Releases, and Handbook EL-812, Hazardous Materials and Spill Response.

73 Restricted Matter: Air Transportation

Restricted matter includes articles for which certain mailing restrictions have been imposed for reasons other than risk of harm to persons or property involved in moving the mail. Refer to chapter 4 for mailing information on restricted matter.

74 Perishable Matter: Air Transportation

741 General Requirements

Perishable matter is any item that can readily deteriorate during normal mail transport conditions and thereby lose value, create a health hazard, or cause a nuisance or disturbance.

742 Live Animals

742.1 Basic Conditions

Most mailable live animals, except honeybees, are permitted to be sent via air transportation. However, the ability of the Postal Service to provide air transportation is dependent on the following:

- a. The animal must be mailable and eligible for transport via air.
- b. All provisions of airline tariffs and air carriers are met.

 Air carrier equipment is available to the Postal Service and allows the safe delivery of shipments within specified and reasonable time limits.
 Time allowance must also be provided for delays en route in air and ground transportation.

Note: Local Postal Service personnel are not authorized to refuse the deposit of mailable live animals that are properly packaged. See 523.

742.2 **Bees**

Only queen honeybees are permitted to be sent in the domestic mail via air transportation. See <u>526.2</u>, <u>Exhibit 526.21</u>, and DMM 601.9.3.8 for more information.

742.3 Air Carrier Refusal

When an air carrier is not available to the Postal Service, or when an air carrier refuses a mailable shipment of live animals or other mailable article of perishable matter because of its company policy on safety or current extreme temperature conditions, the mailpiece is returned to the Postal Service. Mailpieces returned or refused by an air carrier must be handled as follows:

- a. If the mailpiece is damaged or leaking, contact the local facility's safety
 officer or designee for assistance. The procedures in the facility's Spill/
 Leak SOP and Handbook EL-812, Hazardous Materials and Spill
 Response, must be followed.
- b. Complete PS Form 2759, Report of Irregular Handling of Mail, for internal Postal Service information only and distribute copies to the appropriate Postal Service offices. Include the name and address of the mailer, the type and quantity of animals, and the reason for the air carrier's refusal.
- c. If the mailpiece contains a nonmailable or improperly packaged animal or other article of perishable matter, follow the reporting procedures in POM 139.117–118, as applicable. Additionally, to prevent future shipments from being incorrectly accepted for mailing, notify the mailer and the post office of mailing of the problem.
- d. If the mailpiece contains mailable animals that cannot be delivered to the addressee or returned to the sender via surface transportation within 72 hours (for live day-old poultry) or within the delivery period marked on the mailpiece (for other animals), immediately dispose of it. For safety reasons, dispose of mailpieces not marked with a delivery period when it reasonably appears the articles could not be delivered or returned in a viable condition. Also dispose of, or donate to a charitable institution, any perishable matter that cannot be returned in a viable condition. See POM 691.52 for disposal information. If the mailpiece contains a mailable animal or other article of perishable

matter that appears to be viable and can be delivered within the specified delivery period, attempt to contact the mailer via information from the return address. If the mailer can be reached, advise the mailer of the available option for rerouting the mailpiece via the most

- expeditious means of surface transportation (if available). If the mailer agrees to divert to surface, apply label 127, *Surface Transportation Only* and immediately dispatch the mailpiece to the destination via the most expeditious means of surface transportation.
- e. If the mailer of a parcel containing a mailable animal or other article of perishable matter that appears to be in a viable condition cannot be contacted, and the mailpiece can be returned to the sender within the specified delivery period, do the following:
 - (1) Endorse the address side of the mailpiece "Refused for Air Transportation by Air Carrier" and note the name of the airline, flight number, and reason for refusal.
 - (2) Apply Label 127, *Surface Transportation Only* and immediately return the mailpiece to the sender via the most expeditious means of surface transportation.
 - (3) Provide the mailer with instructions on how to obtain a refund of the postage charges because service was not provided.

743 Perishable Matter with Dry Ice

A mailpiece containing mailable matter that is packed in dry ice (carbon dioxide solid) to cool the perishable contents must meet all requirements in 349 and DMM 601.10.20.4 that apply to sending dry ice in domestic mail via air transportation. For air transportation, the amount of dry ice cannot exceed 5 pounds per mailpiece. Dry ice is prohibited to be mailed to international and APO/FPO addresses.

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Appendix A

Hazardous Materials Table: Postal Service Mailability Guide

The mailing information in this table is based on the DOT Hazardous Materials Table in 49 CFR 172.101 (dated October 1, 1998, and the revisions published in *Federal Register* 10742, dated March 5, 1999). The information is modified to identify the mailability of each hazardous material based on Postal Service mailing regulations. This table identifies the mailability of hazardous materials for *domestic mail only*. Almost no hazardous materials are permitted in international mail. For information on mailability in international mail, see chapter 6 and Exhibit 621.1.

In the domestic mail, generally only those hazardous materials that can be reclassed as an ORM-D material and renamed with the proper shipping name of "Consumer Commodity" are eligible for mailing subject to the postal quantity limitations. The only exceptions are for the small number of materials listed in 322.

The columns in the table contain the following information:

Column (a): Lists the proper shipping name of the hazardous material in roman type. Text that appears in *italic* type is not part of the proper shipping name of the hazardous material and is listed for descriptive or reference purposes. Some listings direct the user to the preferred proper shipping name of a material listed elsewhere in the table. The text in this column closely matches the information in Column 2 of the Hazardous Materials Table in 49 CFR 172.101.

Column (b): Lists the assigned hazard class or division of the hazardous material. The entry "Forbidden" means the material may not be transported under any circumstances. The entry "n/a" means the material does not have an assigned hazard class. If the field is blank, refer to the listing for the preferred proper shipping name cited in Column (a). The text in this column closely matches the information in Column 3 of the Hazardous Materials Table in 49 CFR 172.101.

Column (c): Lists the identification (ID) number assigned to the hazardous material. The number may be either a United Nations (UN) number or a North American (NA) number. This field is blank if Column (a) directs the user to the listing for the preferred proper shipping name of the material, or if the entry in Column (b) is "Forbidden." The text in this column closely matches the information in Column 4 of the Hazardous Materials Table in 49 CFR 172.101.

Column (d): Lists the DOT Packing Group (PG) assignment for the hazardous material. Not all hazard classes have DOT Packing Group

assignments. If this field contains "n/a," the material is in a hazard class that does not use Packing Group assignments. This field is blank if Column (a) directs the user to the listing for the preferred proper shipping name of the material, or if the entry in Column (b) is "Forbidden." The text in this column closely matches the information in Column 5 of the Hazardous Materials Table in 49 CFR 172.101.

Column (e): Lists the mailability of the hazardous material according to Postal Service regulations. If the entry is "Prohibited," the material is nonmailable. If the entry cites a reference to this publication or the DMM, the material is subject to those requirements and restrictions. If the entry is "Only ORM-D," the material is mailable only if it can be reclassed as an ORM-D material and renamed with the proper shipping name of "Consumer Commodity" as permitted in 49 CFR. Mailable ORM-D materials cannot exceed the postal quantity limits specified in this publication and DMM 601.10. The mailer is responsible for correctly determining if the hazardous material is eligible to be reclassed as an ORM-D material. If assistance is needed, the mailer may request a ruling from the PCSC as provided in 215.2 and DMM 601.10.6. If the hazardous material is mailable in the domestic mail, refer to Column (f) and (g), as appropriate, to determine the applicable postal packaging instruction in Appendix C.

Column (f): Lists the USPS packaging instruction in Appendix C that must be followed if the hazardous material is permitted in domestic mail via air transportation. This field is blank if Column (a) directs the user to the listing for the preferred proper shipping name of the material, or if the hazardous material is prohibited from mailing as designated in Column (e). If the entry in this column is "Prohibited," the material is not permitted in domestic mail via air transportation.

Column (g): Lists the USPS packaging instruction in Appendix C that must be followed if the hazardous material is permitted in domestic mail via surface transportation. This field is blank if Column (a) directs the user to the listing for the preferred proper shipping name of the material, or if the hazardous material is prohibited from mailing as designated in Column (e). If the entry in this column is "Prohibited," the material is not permitted in domestic mail via surface transportation.

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Accellerene, see p-Nitrosodimethylaniline						
Accumulators, electric, see Batteries, wet etc.						
Accumulators, pressurized, pneumatic <i>or</i> hydraulic (containing nonflammable gas)	2.2	NA1956	n/a	Only ORM-D	2B	2B
Acetal	3	UN1088	Ш	Only ORM-D	Prohibited	3A
Acetaldehyde	3	UN1089	I	Prohibited		
Acetaldehyde ammonia	9	UN1841	Ш	Only ORM-D	9C	9C
Acetaldehyde oxime	3	UN2332	Ш	Only ORM-D	Prohibited	3A
Acetic acid, glacial or Acetic acid solution, with more than 80 percent acid, by mass	8	UN2789	II	Only ORM-D	8A	8A
Acetic acid solution, not less than 50 percent but not more than 80 percent acid, by mass	8	UN2790	II	Only ORM-D per 348.22	8A	8A
Acetic acid solution, with more than 10 percent and less than 50 percent acid, by mass	8	UN2790	III	Only ORM-D per 348.22	8A	8A
Acetic anhydride	8	UN1715	П	Only ORM-D	8A	8A
Acetone	3	UN1090	П	Only ORM-D	Prohibited	3A
Acetone cyanohydrin, stabilized	6.1	UN1541	I	Prohibited		
Acetone oils	3	UN1091	П	Only ORM-D	Prohibited	3A
Acetonitrile	3	UN1648	П	Only ORM-D	Prohibited	3A
Acetyl acetone peroxide with more than 9 percent by mass active oxygen	Forbidden			Prohibited		
Acetyl benzoyl peroxide, solid, or with more than 40 percent in solution	Forbidden			Prohibited		
Acetyl bromide	8	UN1716	П	Only ORM-D	8A	8A
Acetyl chloride	3	UN1717	Ш	Prohibited		
Acetyl cyclohexanesulfonyl peroxide, with more than 82 percent wetted with less than 12 percent water	Forbidden			Prohibited		
Acetyl iodide	8	UN1898	П	Only ORM-D	8A	8A
Acetyl methyl carbinol	3	UN2621	Ш	Only ORM-D	Prohibited	3A
Acetyl peroxide, solid, or with more than 25 percent in solution	Forbidden			Prohibited		
Acetylene, dissolved	2.1	UN1001	n/a	Prohibited		
Acetylene (liquefied)	Forbidden			Prohibited		
Acetylene silver nitrate	Forbidden			Prohibited		
Acetylene tetrabromide, see Tetrabromoethane						

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Acid butyl phosphate, see Butyl acid phosphate	()		(-)	(-)	(1)	(9)
Acid, sludge, see Sludge, acid						
Acridine	6.1	UN2713	III	Only ORM-D	6A	6A
Acrolein dimer, stabilized	3	UN2607	III	Only ORM-D	Prohibited	3A
Acrolein, inhibited	6.1	UN1092	I	Prohibited		
Acrylamide	6.1	UN2074	III	Only ORM-D	6A	6A
Acrylic acid, inhibited	8	UN2218	II	Only ORM-D	8A	8A
Acrylonitrile, inhibited	3	UN1093	I	Prohibited		
Actuating cartridge, explosive, see Cartridges, power device						
Adhesives, containing a flammable liquid	3	UN1133	1, 11, 111	Only ORM-D	Prohibited	3A
Adiponitrile	6.1	UN2205	III	Only ORM-D	6A	6A
Aerosols, corrosive, Packing Group II or III, (each not exceeding 1 L capacity)	2.2	UN1950	n/a	Only ORM-D	2B	2B
Aerosols, flammable (each not exceeding 1 L capacity)	2.1	UN1950	n/a	Only ORM-D	Prohibited	2A
Aerosols, flammable, n.o.s. (engine starting fluid) (each not exceeding 1 L capacity)	2.1	UN1950	n/a	Only ORM-D	Prohibited	2A
Aerosols, nonflammable (each not exceeding 1 L capacity)	2.2	UN1950	n/a	Only ORM-D	2B	2B
Aerosols, poison, each not exceeding 1 L capacity	2.2	UN1950	n/a	Only ORM-D	2B	2B
Air bag inflators, compressed gas or Air bag modules, compressed gas or Seat-belt pretensioners, compressed gas	2.2	UN3353	n/a	Prohibited		
Air bag inflators, <i>pyrotechnic or</i> Air bag modules, <i>pyrotechnic or</i> Seat-belt pretensioners, <i>pyrotechnic</i>	9	UN3268	III	Prohibited		
Air, compressed	2.2	UN1002	n/a	Only ORM-D	2B	2B
Air, refrigerated liquid (cryogenic liquid)	2.2	UN1003	n/a	Prohibited		
Air, refrigerated liquid (cryogenic liquid), non-pressurized	2.2	UN1003	n/a	Prohibited		
Aircraft evacuation slides, see Life-saving appliances etc.						
Aircraft hydraulic power unit fuel tank (containing a mixture of anhydrous hydrazine and monomethyl hydrazine) (M86 fuel)	3	UN3165	I	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Aircraft survival kits, see Life-saving appliances etc.						
Alcoholates solution, n.o.s., in alcohol	3	UN3274	II	Prohibited		
Alcoholic beverages	3	UN3065	II, III	Prohibited (by 18 U.S.C. 1716)		
Alcohols, n.o.s.	3	UN1987	1	Prohibited		
Alcohols, n.o.s.	3	UN1987	II, III	Only ORM-D	Prohibited	ЗА
Alcohols, flammable, toxic, n.o.s.	3	UN1986	1, 11, 111	Prohibited		
Aldehydes, n.o.s.	3	UN1989	ı	Prohibited		
Aldehydes, n.o.s.	3	UN1989	II, III	Only ORM-D	Prohibited	3A
Aldehydes, flammable, toxic, n.o.s.	3	UN1988	I, II	Prohibited		
Aldehydes, flammable, toxic, n.o.s.	3	UN1988	III	Only ORM-D	Prohibited	3A
Aldol	6.1	UN2839	II	Prohibited		
Aldrin, <i>liquid</i>	6.1	NA2762	II	Prohibited		
Aldrin, solid	6.1	NA2761	II	Prohibited		
Alkali metal alcoholates, self-heating, corrosive, n.o.s.	4.2	UN3206	II, III	Prohibited		
Alkali metal alloys, liquid, n.o.s.	4.3	UN1421	I	Prohibited		
Alkali metal amalgam, liquid	4.3	UN1389	Ţ	Prohibited		
Alkali metal amalgam, solid	4.3	UN1389	I	Prohibited		
Alkali metal amides	4.3	UN1390	II	Only ORM-D	Prohibited	4A
Alkali metal dispersions, <i>or</i> Alkaline earth metal dispersions	4.3	UN1391	I	Prohibited		
Alkaline corrosive liquids, n.o.s., see Caustic alkali liquids, n.o.s.						
Alkaline earth metal alcoholates, n.o.s.	4.2	UN3205	II, III	Prohibited		
Alkaline earth metal alloys, n.o.s.	4.3	UN1393	II	Only ORM-D	Prohibited	4A
Alkaline earth metal amalgams	4.3	UN1392	I	Prohibited		
Alkaloids, liquid, n.o.s., <i>or</i> Alkaloid salts, liquid, n.o.s.	6.1	UN3140	I, II	Prohibited		
Alkaloids, liquid, n.o.s., <i>or</i> Alkaloid salts, liquid, n.o.s.	6.1	UN3140	III	Only ORM-D	6A	6A
Alkaloids, solid, n.o.s. <i>or</i> Alkaloid salts, solid, n.o.s. <i>poisonous</i>	6.1	UN1544	I, II	Prohibited		
Alkaloids, solid, n.o.s. <i>or</i> Alkaloid salts, solid, n.o.s. <i>poisonous</i>	6.1	UN1544	III	Only ORM-D	6A	6A

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Alkyl sulfonic acids, liquid or Aryl sulfonic acids, liquid with more than 5 percent free sulfuric acid	8	UN2584	II	Only ORM-D and per 348.2	8A	8A
Alkyl sulfonic acids, liquid or Aryl sulfonic acids, liquid with not more than 5 percent free sulfuric acid	8	UN2586	III	Only ORM-D	8A	8A
Alkyl sulfonic acids, solid or Aryl sulfonic acids, solid with more than 5 percent free sulfuric acid	8	UN2583	II	Only ORM-D and per 348.2	8A	8A
Alkyl sulfonic acids, solid or Aryl sulfonic acids, solid with not more than 5 percent free sulfuric acid	8	UN2585	III	Only ORM-D	8A	8A
Alkylphenols, liquid, n.o.s. (including C2-C12 homologues)	8	UN3145	I	Prohibited		
Alkylphenols, liquid, n.o.s. (including C2-C12 homologues)	8	UN3145	11, 111	Only ORM-D	8A	8A
Alkylphenols, solid, n.o.s. (including C2-C12 homologues)	8	UN2430	I	Prohibited		
Alkylphenols, solid, n.o.s. (including C2-C12 homologues)	8	UN2430	II, III	Only ORM-D	8A	8A
Alkylsulfuric acids	8	UN2571	П	Only ORM-D	8A	8A
Allethrin, see Pesticides, liquid, toxic, n.o.s.						
Allyl acetate	3	UN2333	П	Prohibited		
Allyl alcohol	6.1	UN1098	I	Prohibited		
Allyl bromide	3	UN1099	I	Prohibited		
Allyl chloride	3	UN1100	I	Prohibited		
Allyl chlorocarbonate, see Allyl chloroformate						
Allyl chloroformate	6.1	UN1722	I	Prohibited		
Allyl ethyl ether	3	UN2335	П	Prohibited		
Allyl formate	3	UN2336	I	Prohibited		
Allyl glycidyl ether	3	UN2219	III	Only ORM-D	Prohibited	3A
Allyl iodide	3	UN1723	П	Prohibited		
Allyl isothiocyanate, stabilized	6.1	UN1545	II .	Prohibited		
Allylamine	6.1	UN2334	 	Prohibited		
Allyltrichlorosilane, stabilized	8	UN1724	II .	Prohibited		
Aluminum alkyl halides	4.2	UN3052	1	Prohibited		
Aluminum alkyl hydrides	4.2	UN3076	1	Prohibited		
Aluminum alkyls Aluminum borohydride or Aluminum borohydride in devices	4.2	UN3051 UN2870	l I	Prohibited Prohibited		
Aluminum bromide, anhydrous	8	UN1725	П	Only ORM-D	8A	8A

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Aluminum bromide, solution	8	UN2580	III	Only ORM-D	8A	8A
Aluminum carbide	4.3	UN1394	11	Only ORM-D	Prohibited	4A
Aluminum chloride, anhydrous	8	UN1726	l II	Only ORM-D	8A	8A
Aluminum chloride, solution	8	UN2581	III	Only ORM-D	8A	8A
Aluminum dross, wet or hot	Forbidden			Prohibited		
Aluminum ferrosilicon powder	4.3	UN1395	II, III	Only ORM-D	Prohibited	4A
Aluminum hydride	4.3	UN2463	Ī	Prohibited		
Aluminum, molten	9	NA9260	III	Prohibited		
Aluminum, nitrate	5.1	UN1438	III	Only ORM-D	5A	5A
Aluminum phosphate solution, see Corrosive liquids, etc.						
Aluminum phosphide	4.3	UN1397	I	Prohibited		
Aluminum phosphide pesticides	6.1	UN3048	I	Prohibited		
Aluminum powder, coated	4.1	UN1309	II, III	Only ORM-D	Prohibited	4A
Aluminum powder, uncoated	4.3	UN1396	II, III	Only ORM-D	Prohibited	4A
Aluminum resinate	4.1	UN2715	III	Only ORM-D	Prohibited	4A
Aluminum silicon powder, uncoated	4.3	UN1398	III	Only ORM-D	Prohibited	4A
Aluminum smelting by-products or Aluminum remelting by-products	4.3	UN3170	II, III	Prohibited		
Amatols, see Explosives, blasting, type B						
Amines, flammable, corrosive, n.o.s. <i>or</i> Polyamines, flammable, corrosive, n.o.s.	3	UN2733	I, II	Prohibited		
Amines, flammable, corrosive, n.o.s. <i>or</i> Polyamines, flammable, corrosive, n.o.s.	3	UN2733	III	Only ORM-D	Prohibited	ЗА
Amines, liquid, corrosive, flammable, n.o.s. <i>or</i> Polyamines, liquid, corrosive, flammable, n.o.s.	8	UN2734	1, 11	Prohibited		
Amines, liquid, corrosive, n.o.s. <i>or</i> Polyamines, liquid, corrosive, n.o.s.	8	UN2735	I	Prohibited		
Amines, liquid, corrosive, n.o.s. <i>or</i> Polyamines, liquid, corrosive, n.o.s.	8	UN2735	II, III	Only ORM-D	8A	8A
Amines, solid, corrosive, n.o.s. <i>or</i> Polyamines, solid, corrosive, n.o.s.	8	UN3259	I	Prohibited		
Amines, solid, corrosive, n.o.s. <i>or</i> Polyamines, solid, corrosive, n.o.s.	8	UN3259	II, III	Only ORM-D	8A	8A
2-Amino-4-chlorophenol	6.1	UN2673	II	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
2-Amino-5-diethylaminopentane	6.1	UN2946	III	Only ORM-D	6A	6A
2-Amino-4,6-Dinitrophenol, wetted with not less than 20 percent water by mass	4.1	UN3317	I	Prohibited		
2-(2-Aminoethoxy) ethanol	8	UN3055	III	Only ORM-D	8A	8A
N-Aminoethylpiperazine	8	UN2815	III	Only ORM-D	8A	8A
Aminophenols (o-; m-; p-) Aminopropyldiethanolamine, see Amines, etc.	6.1	UN2512	III	Only ORM-D	6A	6A
<i>n-Aminopropylmorpholine,</i> see Amines, etc.						
Aminopyridines (o-; m-; p-)	6.1	UN2671	II	Prohibited		
Ammonia, anhydrous	2.3	UN1005	n/a	Prohibited		
Ammonia, anhydrous	2.2	UN1005	n/a	Prohibited		
Ammonia solution, relative density between 0.880 and 0.957 at 15° C in water, with more than 10 percent but not more than 35 percent ammonia	8	UN2672	III	Only ORM-D and per 348.2	8A	8A
Ammonia solution, relative density less than 0.880 at 15° C in water, with more than 35 percent but not more than 50 percent ammonia	2.2	UN2073	n/a	Prohibited		
Ammonia solution, relative density less than 0.880 at 15° C in water, with more than 50 percent ammonia	2.2	UN3318	n/a	Prohibited		
Ammonia solution, relative density less than 0.880 at 15° C in water, with more than 50 percent ammonia	2.3	UN3318	n/a	Prohibited		
Ammonium arsenate	6.1	UN1546	II	Prohibited		
Ammonium azide	Forbidden			Prohibited		
Ammonium bifluoride, solid, see Ammonium hydrogendifluoride, solid						
Ammonium bifluoride, solution, see Ammonium hydrogendifluoride, solution						
Ammonium bromate	Forbidden			Prohibited		
Ammonium chlorate	Forbidden			Prohibited		
Ammonium dichromate	5.1	UN1439	II	Only ORM-D	5A	5A
Ammonium dintro-o-cresolate	6.1	UN1843	II	Prohibited		
Ammonium fluoride	6.1	UN2505	III	Only ORM-D	6A	6A
Ammonium fluorosilicate	6.1	UN2854	III	Only ORM-D	6A	6A
Ammonium fulminate	Forbidden			Prohibited		ĺ

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Ammonium hydrogen sulfate	8	UN2506	II	Only ORM-D	8A	8A
Ammonium hydrogendifluoride, solid	8	UN1727	II	Only ORM-D	8A	8A
Ammonium hydrogendiflouride, solution	8	UN2817	II	Prohibited		
Ammonium hydrogendiflouride, solution	8	UN2817	III	Only ORM-D	8A	8A
Ammonium hydrosulfide, solution, see Ammonium sulfide solution						
Ammonium hydroxide, see Ammonia solutions, etc.						
Ammonium metavanadate	6.1	UN2859	II	Prohibited		
Ammonium nitrate fertilizers	5.1	NA2072	III	Only ORM-D	5A	5A
Ammonium nitrate fertilizers; uniform non-segregating mixtures of ammonium nitrate with added matter which is inorganic and chemically inert towards ammonium nitrate, with not less than 90 percent ammonium nitrate and not more than 0.2 percent combustible material (including organic material calculated as carbon), or with more than 70 percent but less than 90 percent ammonium nitrate and not more than 0.4 percent total combustible material	5.1	UN2067	III	Only ORM-D	5A	5A
Ammonium nitrate fertilizers: uniform non-segregating mixtures of nitrogen/phosphate or nitrogen/potash types or complete fertilizers of nitrogen/phosphate/potash type, with not more than 70 percent ammonium nitrate and not more than 0.4 percent total added combustible material or with not more than 45 percent ammonium nitrate with unrestricted combustible material	9	UN2071	III	Only ORM-D	9C	9C
Ammonium nitrate-fuel oil mixture containing only prilled ammonium nitrate and fuel oil	1.5D	NA0331	II	Prohibited		
Ammonium nitrate, liquid (hot concentrated solution)	5.1	UN2426	n/a	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Ammonium nitrate mixed fertilizers	5.1	NA2069	III	Only ORM-D	5A	5A
Ammonium nitrate, with more than 0.2 percent combustible substances, including any organic substance calculated as carbon, to the exclusion of any other added substance	1.1D	UN0222	II	Prohibited		
Ammonium nitrate, with not more than 0.2 percent of combustible substances, including any organic substance calculated as carbon, to the exclusion of any other added substance	5.1	UN1942	III	Only ORM-D	5A	5A
Ammonium nitrate	Forbidden			Prohibited		
Ammonium perchlorate	1.1D	UN0402	II	Prohibited		
Ammonium perchlorate	5.1	UN1442	П	Only ORM-D	5A	5A
Ammonium permanganate	Forbidden			Prohibited		
Ammonium persulfate	5.1	UN1444	Ш	Only ORM-D	5A	5A
Ammonium picrate, dry or wetted with less than 10 percent water, by mass	1.1D	UN0004	II	Prohibited		
Ammonium picrate, wetted with not less than 10 percent water, by mass	4.1	UN1310	I	Prohibited		
Ammonium polysulfide, solution	8	UN2818	П	Prohibited		
Ammonium polysulfide, solution	8	UN2818	Ш	Only ORM-D	8A	8A
Ammonium polyvanadate	6.1	UN2861	П	Prohibited	6A	6A
Ammonium silicofluoride, see Ammonium fluorosilicate						
Ammonium sulfide solution	8	UN2683	П	Prohibited		
Ammunition, blank, see Cartridges for weapons, blank						
Ammunition, illuminating with or without burster, expelling charge, or propelling charge	1.2G	UN0171	II	Prohibited		
Ammunition, illuminating with or without burster, expelling charge, or propelling charge	1.3G	UN0254	II	Prohibited		
Ammunition, illuminating with or without burster, expelling charge, or propelling charge	1.4G	UN0297	II	Prohibited		
Ammunition, incendiary liquid or gel, with burster, expelling charge, or propelling charge	1.3J	UN0247	II	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Ammunition, incendiary (water-activated contrivances) with burster, expelling charge, or propelling charge, see Contrivances, water-activated, etc.						
Ammunition, incendiary, white phosphorus, with burster, expelling charge, or propelling charge	1.2H	UN0243	II	Prohibited		
Ammunition, incendiary, white phosphorus, with burster, expelling charge, or propelling charge	1.3H	UN0244	II	Prohibited		
Ammunition, incendiary with or without burster, expelling charge, or propelling charge	1.2G	UN0009	II	Prohibited		
Ammunition, incendiary with or without burster, expelling charge, or propelling charge	1.3G	UN0010	II	Prohibited		
Ammunition, incendiary with or without burster, expelling charge, or propelling charge	1.4G	UN0300	II	Prohibited		
Ammunition, practice	1.4G	UN0362	II	Prohibited		
Ammunition, practice	1.3G	UN0488	II	Prohibited		
Ammunition, proof	1.4G	UN0363	П	Prohibited		
Ammunition, rocket, see Warheads, rocket etc.						
Ammunition, SA (small arms), see Cartridges for weapons, etc.						
Ammunition, smoke (water-activated contrivances), white phosphorus, with burster, expelling charge, or propelling charge, see Contrivances, water-activated, etc. (UN0248)						
Ammunition, smoke (water-activated contrivances), without white phosphorus or phosphides, with burster, expelling charge, or propelling charge, see Contrivances, water-activated, etc. (UN0249)						
Ammunition smoke, white phosphorus with burster, expelling charge, or propelling charge	1.2H	UN0245	II	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Ammunition, smoke, white phosphorus with burster, expelling charge, or propelling charge	1.3H	UN0246	II	Prohibited		
Ammunition, smoke, with or without burster, expelling charge, or propelling charge	1.2G	UN0015	II	Prohibited		
Ammunition, smoke, with or without burster, expelling charge, or propelling charge	1.3G	UN0016	II	Prohibited		
Ammunition, smoke, with or without burster, expelling charge, or propelling charge	1.4G	UN0303	II	Prohibited		
Ammunition, sporting, see Cartridges for weapons, etc. (UN0012; UN0328; UN0339)						
Ammunition, tear-producing, non-explosive, without burster or expelling charge, non-fuzed	6.1	UN2017	II	Prohibited		
Ammunition, tear-producing with burster, expelling charge, or propelling charge	1.2G	UN0018	II	Prohibited		
Ammunition, tear-producing with burster, expelling charge, or propelling charge	1.3G	UN0019	II	Prohibited		
Ammunition, tear-producing with burster, expelling charge, or propelling charge	1.4G	UN0301	II	Prohibited		
Ammunition, toxic (water-activated contrivances), with burster, expelling charge, or propelling charge, see Contrivances, water-activated, etc.						
Ammunition, toxic, non-explosive, without burster or expelling charge, non-fuzed	6.1	UN2016	II	Prohibited		
Ammunition, toxic with burster, expelling charge, or propelling charge	1.2K	UN0020	II	Prohibited		
Ammunition, toxic with burster, expelling charge, or propelling charge	1.3K	UN0021	II	Prohibited		
Amyl acetates	3	UN1104	Ш	Only ORM-D	Prohibited	3A
Amyl acid phosphate	8	UN2819	Ш	Only ORM-D	8A	8A
Amyl butyrates	3	UN2620	Ш	Only ORM-D	Prohibited	3A
Amyl chlorides	3	UN1107	П	Only ORM-D	Prohibited	3A
Amyl formates	3	UN1109	Ш	Only ORM-D	Prohibited	3A
Amyl mercaptans	3	UN1111	П	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
n-Amyl methyl ketone	3	UN1110	III	Only ORM-D	Prohibited	3A
Amyl nitrate	3	UN1112	III	Only ORM-D	Prohibited	3A
Amyl nitrites	3	UN1113	II	Only ORM-D	Prohibited	3A
Amylamines	3	UN1106	Ш	Prohibited		
Amylamines	3	UN1106	III	Only ORM-D	Prohibited	3A
Amyltrichlorosilane	8	UN1728	Ш	Prohibited		
Anhydrous ammonia see Ammonia, anhydrous, liquefied						
Anhydrous hydrofluoric acid, see Hydrogen fluoride, anhydrous						
Aniline	6.1	UN1547	Ш	Prohibited		
Aniline hydrochloride	6.1	UN1548	Ш	Only ORM-D	6A	6A
Aniline oil, see Aniline						
Anisidines	6.1	UN2431	III	Only ORM-D	6A	6A
Anisole	3	UN2222	III	Only ORM-D	Prohibited	3A
Anisoyl chloride	8	UN1729	Ш	Only ORM-D	8A	8A
Anti-freeze, liquid, see Flammable liquids, n.o.s						
Antimonous chloride, see Antimony trichloride						
Antimony compounds, inorganic, liquid, n.o.s.	6.1	UN3141	III	Only ORM-D	6A	6A
Antimony compounds, inorganic, solid, n.o.s.	6.1	UN1549	III	Only ORM-D	6A	6A
Antimony lactate	6.1	UN1550	Ш	Only ORM-D	6A	6A
Antimony pentachloride, liquid	8	UN1730	Ш	Prohibited		
Antimony pentachloride, solutions	8	UN1731	II, III	Only ORM-D	8A	8A
Antimony pentafluoride	8	UN1732	II	Prohibited		
Antimony potassium tartrate	6.1	UN1551	Ш	Only ORM-D	6A	6A
Antimony powder	6.1	UN2871	Ш	Only ORM-D	6A	6A
Antimony sulfide and a chlorate, mixtures of	Forbidden			Prohibited		
Antimony sulfide, solid, see Antimony compounds, inorganic, n.o.s.						
Antimony tribromide, solid	8	NA1549	II	Only ORM-D	8A	8A
Antimony tribromide, solution	8	NA1549	II	Only ORM-D	8A	8A
Antimony trichloride, liquid	8	UN1733	II	Only ORM-D	8A	8A
Antimony trichloride, solid	8	UN1733	II	Only ORM-D	8A	8A
Antimony, trifluoride, solid	8	NA1549	II	Only ORM-D	8A	8A
Antimony, trifluoride, solution	8	NA1549	II	Only ORM-D	8A	8A
Aqua ammonia, see Ammonia solution, etc.						
Argon, compressed	2.2	UN1006	n/a	Only ORM-D	2B	2B

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Argon, refrigerated liquid (cryogenic liquid)	2.2	UN1951	n/a	Prohibited		
Arsenic	6.1	UN1558	П	Prohibited		
Arsenic acid, liquid	6.1	UN1553	I	Prohibited		
Arsenic acid, solid	6.1	UN1554	П	Prohibited		
Arsenic bromide	6.1	UN1555	П	Prohibited		
Arsenic chloride, see Arsenic trichloride						
Arsenic compounds, liquid, n.o.s. inorganic, including arsenates, n.o.s.; arsenites, n.o.s.; arsenic sulfides, n.o.s.; and organic compounds of arsenic, n.o.s.	6.1	UN1556	I, II	Prohibited		
Arsenic compounds, liquid, n.o.s. inorganic, including arsenates, n.o.s.; arsenites, n.o.s.; arsenic sulfides, n.o.s.; and organic compounds of arsenic, n.o.s.	6.1	UN1556	III	Only ORM-D	6A	6A
Arsenic compounds, solid, n.o.s. inorganic, including arsenates, n.o.s.; arsenites, n.o.s.; arsenic sulfides, n.o.s.; and organic compounds of arsenic, n.o.s.	6.1	UN1557	I, II	Prohibited		
Arsenic compounds, solid, n.o.s. inorganic, including arsenates, n.o.s.; arsenites, n.o.s.; arsenic sulfides, n.o.s.; and organic compounds of arsenic, n.o.s.	6.1	UN1557	III	Only ORM-D	6A	6A
Arsenic pentoxide	6.1	UN1559	П	Prohibited		
Arsenic sulfide	6.1	NA1557	П	Prohibited		
Arsenic sulfide and a chlorate, mixtures of	Forbidden			Prohibited		
Arsenic trichloride	6.1	UN1560	I	Prohibited		
Arsenic trioxide	6.1	UN1561	II	Prohibited		
Arsenic trisulfide	6.1	NA1557	П	Prohibited		
Arsenic, white, solid, see Arsenic trioxide						
Arsenical dust	6.1	UN1562	П	Prohibited		
Arsenical pesticides, liquid, flammable, toxic, flashpoint less than 23° C	3	UN2760	I, II	Prohibited		
Arsenical pesticides, liquid, toxic	6.1	UN2994	I, II	Prohibited		
Arsenical pesticides, liquid, toxic	6.1	UN2994	Ш	Only ORM-D	6A	6A
Arsenical pesticides, liquid, toxic, flammable flashpoint not less than 23° C	6.1	UN2993	I, II	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Arsenical pesticides, liquid, toxic, flammable flashpoint not less than 23° C	6.1	UN2993	III	Only ORM-D	6A	6A
Arsenical pesticides, solid, toxic	6.1	UN2759	I, II	Prohibited		
Arsenical pesticides, solid, toxic	6.1	UN2759	Ш	Only ORM-D	6A	6A
Arsenious acid, solid, see Arsenic trioxide						
Arsenious and mercuric iodide solution, see Arsenic compounds, liquid, n.o.s.						
Arsine	2.3	UN2188	n/a	Prohibited		
Articles, explosive, extremely insensitive or Articles, EEI	1.6N	UN0486	II	Prohibited		
Articles, explosive, n.o.s.	1.4S	UN0349	II	Prohibited		
Articles, explosive, n.o.s.	1.4B	UN0350	II	Prohibited		
Articles, explosive, n.o.s.	1.4C	UN0351	II	Prohibited		
Articles, explosive, n.o.s.	1.4D	UN0352	II	Prohibited		
Articles, explosive, n.o.s.	1.4G	UN0353	II	Prohibited		
Articles, explosive, n.o.s.	1.1L	UN0354	II	Prohibited		
Articles, explosive, n.o.s.	1.2L	UN0355	II	Prohibited		
Articles, explosive, n.o.s.	1.3L	UN0356	II	Prohibited		
Articles, explosive, n.o.s.	1.1C	UN0462	II	Prohibited		
Articles, explosive, n.o.s.	1.1D	UN0463	П	Prohibited		
Articles, explosive, n.o.s.	1.1E	UN0464	II	Prohibited		
Articles, explosive, n.o.s.	1.1F	UN0465	П	Prohibited		
Articles, explosive, n.o.s.	1.2C	UN0466	II	Prohibited		
Articles, explosive, n.o.s.	1.2D	UN0467	II	Prohibited		
Articles, explosive, n.o.s.	1.2E	UN0468	II	Prohibited		
Articles, explosive, n.o.s.	1.2F	UN0469	II	Prohibited		
Articles, explosive, n.o.s.	1.3C	UN0470	II	Prohibited		
Articles, explosive, n.o.s.	1.4E	UN0471	П	Prohibited		
Articles, explosive, n.o.s.	1.4F	UN0472	Ш	Prohibited		
Articles, pressurized pneumatic or Hydraulic containing non-flammable gas	2.2	UN3164	n/a	Only ORM-D	2A	2A
Articles, pyrophoric	1.2L	UN0380	П	Prohibited		
Articles, pyrotechnic for technical purposes	1.1G	UN0428	II	Prohibited		
Articles, pyrotechnic for technical purposes	1.2G	UN0429	II	Prohibited		
Articles, pyrotechnic for technical purposes	1.3G	UN0430	II	Prohibited		
Articles, pyrotechnic for technical purposes	1.4G	UN0431	II	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Articles, pyrotechnic for technical purposes	1.4S	UN0432	II	Prohibited		
Asbestos	9	NA2212	III	Only ORM-D	9C	9C
Ascaridole (organic peroxide)	Forbidden			Prohibited		
Asphalt, at or above its flashpoint	3	NA1999	III	Only ORM-D	Prohibited	3A
Asphalt, cut back, see Tars, liquid, etc.						
Automobile, motorcycle, tractor, other self-propelled vehicle, engine, or other mechanical apparatus, see Vehicle or Battery etc.						
Aviation regulated liquid, n.o.s.	9	UN3334	n/a	0nly ORM-D	9C	9C
Aviation regulated solid, n.o.s.	9	UN3335	n/a	0nly ORM-D	9C	9C
Azaurolic, acid (salt of), (dry)	Forbidden			Prohibited		
Azido guanidine picrate (dry)	Forbidden			Prohibited		
5-Azido-1-hydroxy tetrazole	Forbidden			Prohibited		
Azido hydroxy tetrazole (mercury and silver salts)	Forbidden			Prohibited		
3-Azido-1,2-Propylene glycol dinitrate	Forbidden			Prohibited		
Azidodithiocarbonic acid	Forbidden			Prohibited		
Azidoethyl nitrate	Forbidden			Prohibited		
1-Aziridinylphosphine oxide-(tris), see Tris-(1-aziridinyl)phosphine oxide, solution						
Azodicarbonamide	4.1	UN3242	II	Only ORM-D	Prohibited	4A
Azotetrazole (dry)	Forbidden			Prohibited		
Barium	4.3	UN1400	П	Only ORM-D	Prohibited	4A
Barium alloys, pyrophic	4.2	UN1854	<u>"</u>	Prohibited		., (
Barium azide, dry or wetted with less than 50 percent water, by mass	1.1A	UN0224	II	Prohibited		
Barium azide, wetted with not less than 50 percent water, by mass	4.1	UN1571	I	Prohibited		
Barium bromate	5.1	UN2719	П	Prohibited		
Barium chlorate	5.1	UN1445	П	Prohibited		
Barium compounds, n.o.s.	6.1	UN1564	П	Prohibited		
Barium compounds, n.o.s.	6.1	UN1564	Ш	Only ORM-D	6A	6A
Barium cyanide	6.1	UN1565	I	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Barium hypochlorite with more than 22 percent available chlorine	5.1	UN2741	II	Only ORM-D	5A	5A
Barium nitrate	5.1	UN1446	П	Prohibited		
Barium oxide	6.1	UN1884	III	Only ORM-D	6A	6A
Barium perchlorate	5.1	UN1447	П	Prohibited		
Barium permanganate	5.1	UN1448	П	Prohibited		
Barium peroxide	5.1	UN1449	П	Prohibited		
Barium selenate, see Selenates or Selenites						
Barium selenite, see Selenates or Selenites						
Barium styphnate	1.1A	NA0473	П	Prohibited		
Batteries, containing sodium	4.3	UN3292	П	Prohibited		
Batteries, dry, containing potassium hydroxide solid, electric, storage	8	NA3028	III	Prohibited		
Batteries, wet, filled with acid, electric storage	8	UN2794	III	Prohibited		
Batteries, wet, filled with acid, electric storage	8	UN2795	III	Prohibited		
Batteries, wet, non-spillable, electric storage	8	UN2800	III	Mailable per 348 and DMM 601.11.10.4	8B	8B
Batteries, dry, not subject to the requirements of 49 CFR	n/a	n/a	n/a	Mailable, not regulated by 49 CFR	DMM 601.1	DMM 601.1
Battery fluid, acid	8	UN2796	П	Only ORM-D	8A	8A
Battery fluid, alkali	8	UN2797	П	Only ORM-D	8A	8A
Battery lithium type, see Lithium batteries etc.						
Battery-powered vehicle or Battery-powered equipment	9	UN3171	n/a	Prohibited		
Battery, wet, filled with acid or alkali with automobile (or named self-propelled vehicle or mechanical equipment containing internal combustion engine) see Vehicle or Battery, etc.						
Benzaldehyde	9	UN1990	Ш	Only ORM-D	9C	9C
Benzene	3	UN1114	П	Only ORM-D	Prohibited	3A
Benzene diazonium chloride (dry)	Forbidden			Prohibited		
Benzene diazonium nitrate (dry)	Forbidden			Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Benzene phosphorus dichloride, see Phenyl phosphorus dichloride						
Benzene phosphorus thiodichloride, see Phenyl phosphorus thiodichloride						
Benzene sulfonyl chloride	8	UN2225	Ш	Only ORM-D	8A	8A
Benzene triozonide	Forbidden			Prohibited		
Benzenethiol, see Phenyl mercaptan						
Benzidine	6.1	UN1885	П	Prohibited		
Benzol, see Benzene						
Benzonitrile	6.1	UN2224	П	Prohibited		
Benzoquinone	6.1	UN2587	П	Prohibited		
Benzotrichloride	8	UN2226	П	Only ORM-D	8A	8A
Benzotrifluoride	3	UN2338	II	Only ORM-D	Prohibited	3A
Benzoxidiazoles (dry)	Forbidden			Prohibited		
Benzoyl azide	Forbidden			Prohibited		
Benzoyl chloride	8	UN1736	Ш	Only ORM-D	8A	8A
Benzyl bromide	6.1	UN1737	П	Prohibited		
Benzyl chloride	6.1	UN1738	П	Prohibited		
Benzyl chloride unstabilized	6.1	UN1738	II	Prohibited		
Benzyl chloroformate	8	UN1739	I	Prohibited		
Benzyl iodide	6.1	UN2653	П	Prohibited		
Benzyldimethylamine	8	UN2619	П	Only ORM-D	8A	8A
Benzylidene chloride	6.1	UN1886	П	Prohibited		
Beryllium compounds, n.o.s.	6.1	UN1566	П	Prohibited		
Beryllium compounds, n.o.s.	6.1	UN1566	Ш	Only ORM-D	6A	6A
Beryllium nitrate	5.1	UN2464	П	Prohibited		
Beryllium, powder	6.1	UN1567	П	Prohibited		
Bicyclo [2,2,1] hepta-2, 5-diene, inhibited <i>or</i> 2,5-Norbornadiene, inhibited	3	UN2251	II	Only ORM-D	Prohibited	3A
Biphenyl triozonide	Forbidden			Prohibited		
Bipyridilium pesticides, liquid, flammable, toxic, <i>flashpoint less than 23</i> ° C	3	UN2782	I, II	Prohibited		
Bipyridilium pesticides, liquid, toxic	6.1	UN3016	I, II	Prohibited		
Bipyridilium pesticides, liquid, toxic	6.1	UN3016	III	Only ORM-D	6A	6A
Bipyridilium pesticides, liquid, toxic, flammable, flashpoint not less than 23° C	6.1	UN3015	I, II	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Bipyridilium pesticides, liquid, toxic, flammable, <i>flashpoint not</i> <i>less than 23° C</i>	6.1	UN3015	III	Only ORM-D	6A	6A
Bipyridilium pesticides, solid, toxic	6.1	UN2781	I, II	Prohibited		
Bipyridilium pesticides, solid, toxic	6.1	UN2781	III	Only ORM-D	6A	6A
Bis (Aminopropyl) piperazine, see Corrosive liquids, n.o.s.						
Bisulfate, aqueous solution	8	UN2837	II, III	Only ORM-D	8A	8A
Bisulfites, aqueous solutions, n.o.s.	8	UN2693	III	Only ORM-D	8A	8A
Black powder, compressed or Gunpowder, compressed or Black powder, in pellets or Gunpowder, in pellets	1.1D	UN0028	II	Prohibited		
Black powder for small arms	4.1	NA0027	I	Prohibited		
Black powder or Gunpowder, granular or as a meal	1.1D	UN0027	II	Prohibited		
Blasting agent, n.o.s., see Explosives, blasting etc.						
Blasting cap assemblies, see Detonator assemblies, non-electric, for blasting						
Blasting caps, electric, see Detonators, electric, for blasting						
Blasting caps, non-electric, see Detonators, non-electric for blasting						
Bleaching powder, see Calcium hypochlorite mixtures, etc.						
Blue asbestos (Crocidolite) or Brown asbestos (amosite, mysorite)	9	UN2212	II	Only ORM-D	9C	9C
Bombs, photo-flash	1.1F	UN0037	Ш	Prohibited		
Bombs, photo-flash	1.1D	UN0038	II	Prohibited		
Bombs, photo-flash	1.2G	UN0039	II	Prohibited		
Bombs, photo-flash	1.3G	UN0299	II	Prohibited		
Bombs, smoke, non-explosive, with corrosive liquid, without initiating device	8	UN2028	II	Prohibited		
Bombs, with bursting charge	1.1F	UN0033	II	Prohibited		
Bombs, with bursting charge	1.1D	UN0034	II	Prohibited		
Bombs, with bursting charge	1.2D	UN0035	II	Prohibited		
Bombs, with bursting charge	1.2F	UN0291	II	Prohibited		
Bombs with flammable liquid, with bursting charge	1.1J	UN0399	II	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Bombs with flammable liquid, with bursting charge	1.2J	UN0400	II	Prohibited		
Boosters with detonator	1.1B	UN0225	П	Prohibited		
Boosters with detonator	1.2B	UN0268	П	Prohibited		
Boosters, without detonator	1.1D	UN0042	П	Prohibited		
Boosters, without detonator	1.2D	UN0283	П	Prohibited		
Borate and chlorate mixtures, see Chlorate and borate mixtures						
Borneol	4.1	UN1312	Ш	Prohibited		
Boron tribromide	8	UN2692	I	Prohibited		
Boron trichloride	2.3	UN1741	n/a	Prohibited		
Boron trifluoride acetic acid complex	8	UN1742	II	Only ORM-D	8A	8A
Boron trifluoride, compressed	2.3	UN1008	n/a	Prohibited		
Boron trifluoride diethyl etherate	8	UN2604	ı	Prohibited		
Boron trifluoride dihydrate	8	UN2851	II	Only ORM-D	8A	8A
Boron trifluoride dimethyl etherate	4.3	UN2965	I	Prohibited		
Boron trifluoride propionic acid complex	8	UN1743	II	Only ORM-D	8A	8A
Box toe gum, see Nitrocellulose etc.						
Bromates, inorganic, aqueous solution, n.o.s.	5.1	UN3213	II	Only ORM-D	5A	5A
Bromates, inorganic, n.o.s.	5.1	UN1450	П	Only ORM-D	5A	5A
Bromine or Bromine solutions	8	UN1744	I	Prohibited		
Bromine azide	Forbidden			Prohibited		
Bromine chloride	2.3	UN2901		Prohibited		
Bromine pentafluoride	5.1	UN1745	ı	Prohibited		
Bromine trifluoride	5.1	UN1746	I	Prohibited		
4-Bromo-1,2-dinitrobenzene	Forbidden			Prohibited		
4-Bromo-1,2-dinitrobenzene (unstable at 59° C)	Forbidden			Prohibited		
1-Bromo-3-methylbutane	3	UN2341	III	Only ORM-D	Prohibited	3A
1-Bromo-3-nitrobenzene (unstable at 56° C)	Forbidden			Prohibited		
Bromoacetic acid, solid	8	UN1938	П	Only ORM-D	8A	8A
Bromoacetic acid, solution	8	UN1938	II	Only ORM-D	8A	8A
Bromoacetone	6.1	UN1569	II	Prohibited		
Bromoacetyl bromide	8	UN2513	П	Only ORM-D	8A	8A
Bromobenzene	3	UN2514	III	Only ORM-D	Prohibited	3A
Bromobenzyl cyanides, liquid	6.1	UN1694	I	Prohibited		
Bromobenzyl cyanides, solid	6.1	UN1694	I	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
1-Bromobutane	3	UN1126	II	Only ORM-D	Prohibited	3A
2-Bromobutane	3	UN2339	II	Only ORM-D	Prohibited	3A
Bromochloromethane	6.1	UN1887	III	Only ORM-D	6A	6A
2-Bromoethyl ethyl ether	3	UN2340	II	Only ORM-D	Prohibited	3A
Bromoform	6.1	UN2515	III	Only ORM-D	6A	6A
Bromomethylpropanes	3	UN2342	II	Only ORM-D	Prohibited	3A
2-Bromo-2-nitropropane-1,3-diol	4.1	UN3241	III	Only ORM-D	Prohibited	4A
2-Bromopentane	3	UN2343	II	Only ORM-D	Prohibited	3A
Bromopropanes	3	UN2344	III	Only ORM-D	Prohibited	3A
2-Bromopropanes	3	UN2344	II	Only ORM-D	Prohibited	3A
3-Bromopropyne	3	UN2345	II	Only ORM-D	Prohibited	3A
Bromosilane	Forbidden			Prohibited		
Bromotoluene-alpha, see Benzyl bromide						
Bromotrifluoroethylene	2.1	UN2419	n/a	Prohibited		
Bromotrifluoromethane <i>or</i> Refrigerant gas, R 13B1	2.2	UN1009	n/a	Only ORM-D	2B	2B
Brucine	6.1	UN1570	ı	Prohibited		
Bursters, explosive	1.1D	UN0043	II	Prohibited		
Butadienes, inhibited	2.1	UN1010	n/a	Only ORM-D	Prohibited	2A
Butane see also Petroleum gases, liquefied	2.1	UN1011	n/a	Only ORM-D	Prohibited	2A
Butane, butane mixtures and mixtures having similar properties in cartridges each not exceeding 500 grams, see Receptacles, etc.						
Butanedione	3	UN2346	II	Only ORM-D	Prohibited	3A
1,2,4-Butanetriol trinitrate	Forbidden			Prohibited		
Butanols	3	UN1120	II, III	Only ORM-D	Prohibited	3A
tert-Butoxycarbonyl azide	Forbidden			Prohibited		
Butyl acetates	3	UN1123	II, III	Only ORM-D	Prohibited	3A
Butyl acid phosphate	8	UN1718	Ш	Only ORM-D	8A	8A
Butyl acrylates, inhibited	3	UN2348	III	Only ORM-D	Prohibited	3A
Butyl alcohols, see Butanols						
Butyl benzenes	3	UN2709	Ш	Only ORM-D	Prohibited	3A
<i>n-Butyl bromide, see</i> 1-Bromobutane						
n-Butyl chloride, see Chlorobutanes						
n-Butyl chloroformate	6.1	UN2743	ı	Prohibited		
sec-Butyl chloroformate	6.1	NA2742	I	Prohibited		
Butyl ethers, see Dibutyl ethers						

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Butyl ethyl ether, see Ethyl butyl ether						
n-Butyl formate	3	UN1128	II	Only ORM-D	Prohibited	3A
tert-Butyl hydroperoxide, with more than 90 percent with water	Forbidden			Prohibited		
tert-Butyl hypochlorite	4.2	UN3255	I	Prohibited		
N-n-Butyl imidazole	6.1	UN2690	II	Prohibited		
tert-Butyl isocyanate	6.1	UN2484	1	Prohibited		
n-Butyl isocyanate	6.1	UN2485	I	Prohibited		
Butyl mercaptans	3	UN2347	II	Only ORM-D	Prohibited	3A
n-Butyl methacrylate, inhibited	3	UN2227	III	Only ORM-D	Prohibited	3A
Butyl methyl ether	3	UN2350	II	Only ORM-D	Prohibited	3A
Butyl nitrites	3	UN2351	I, II, III	Only ORM-D	Prohibited	3A
tert-Butyl peroxyacetate, with more than 76 percent in solution	Forbidden			Prohibited		
n-Butyl peroxydicarbonate, with more than 52 percent in solution	Forbidden			Prohibited		
tert-Butyl peroxyisobutyrate, with more than 77 percent in solution	Forbidden			Prohibited		
Butyl phosphoric acid, see Butyl acid phosphate						
Butyl propionates	3	UN1914	III	Only ORM-D	Prohibited	3A
5-tert-Butyl-2,4,6-trinitro-m-xyle ne <i>or</i> Musk xylene	4.1	UN2956	III	Prohibited		
Butyl vinyl ether, inhibited	3	UN2352	II	Only ORM-D	Prohibited	3A
n-Butylamine	3	UN1125	П	Prohibited		
N-Butylaniline	6.1	UN2378	II	Prohibited		
tert-Butylcyclohexylchloroformate	6.1	UN2747	III	Only ORM-D	6A	6A
Butylene see also Petroleum gases, liquefied	2.1	UN1012	n/a	Prohibited		
1,2-Butylene oxide, stabilized	3	UN3022	II	Only ORM-D	Prohibited	3A
Butyltoluenes	6.1	UN2667	Ш	Only ORM-D	6A	6A
Butyltrichlorosilane	8	UN1747	II	Prohibited		
1,4-Butynediol	6.1	UN2716	III	Prohibited		
Butyraldehyde	3	UN1129	II	Only ORM-D	Prohibited	3A
Butyraldoxime	3	UN2840	Ш	Only ORM-D	Prohibited	3A
Butyric acid	8	UN2820	III	Only ORM-D	8A	8A
Butyric anhydride	8	UN2739	III	Only ORM-D	8A	8A
Butyronitrile	3	UN2411	II	Prohibited		
Butyryl chloride	3	UN2353	II	Prohibited		
Cacodylic acid	6.1	UN1572	II	Prohibited		
Cadmium compounds	6.1	UN2570	I, II	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Cadmium compounds	6.1	UN2570	Ш	Only ORM-D	6A	6A
Caesium hydroxide	8	UN2682	II	Only ORM-D	8A	8A
Caesium hydroxide solution	8	UN2681	II, III	Only ORM-D	8A	8A
Calcium	4.3	UN1401	П	Only ORM-D	Prohibited	4A
Calcium arsenate	6.1	UN1573	II	Prohibited		
Calcium arsenate and calcium arsenite, mixtures, solid	6.1	UN1574	II	Prohibited		
Calcium arsenite, solid	6.1	NA1574	II	Prohibited		
Calcium bisulfite solution, see Bisulfites, aqueous solutions, n.o.s.						
Calcium carbide	4.3	UN1402	I	Prohibited		
Calcium carbide	4.3	UN1402	II	Only ORM-D	Prohibited	4A
Calcium chlorate	5.1	UN1452	II	Only ORM-D	5A	5A
Calcium chlorate aqueous solution	5.1	UN2429	II, III	Only ORM-D	5A	5A
Calcium chlorite	5.1	UN1453	II	Only ORM-D	5A	5A
Calcium cyanamide with more than 0.1 percent of calcium carbide	4.3	UN1403	III	Only ORM-D	Prohibited	4A
Calcium cyanide	6.1	UN1575	I	Prohibited		
Calcium dithionite <i>or</i> Calcium hydrosulfite	4.2	UN1923	II	Prohibited		
Calcium hydride	4.3	UN1404	I	Prohibited		
Calcium hydrosulfite, see Calcium dithionite						
Calcium hypochlorite, dry or Calcium hypochlorite mixtures dry with more than 39 percent available chlorine (8.8 percent available oxygen)	5.1	UN1748	II	Only ORM-D	5A	5A
Calcium hypochlorite, hydrated or Calcium hypochlorite, hydrated mixtures, with not less than 5.5 percent but not more than 10 percent water	5.1	UN2880	II	Only ORM-D	5A	5A
Calcium hypochlorite mixtures, dry, with more than 10 percent but not more than 39 percent available chlorine	5.1	UN2208	III	Only ORM-D	5A	5A
Calcium manganese silicon	4.3	UN2844	III	Only ORM-D	Prohibited	4A
Calcium nitrate	5.1	UN1454	Ш	Only ORM-D	5A	5A
Calcium oxide	8	UN1910	III	Only ORM-D	8A	8A
Calcium perchlorate	5.1	UN1455	II	Only ORM-D	5A	5A
Calcium permanganate	5.1	UN1456	Ш	Only ORM-D	5A	5A
Calcium peroxide	5.1	UN1457	II	Only ORM-D	5A	5A

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Calcium phosphide	4.3	UN1360	I	Prohibited		
Calcium, pyrophoric <i>or</i> Calcium alloys, pyrophoric	4.2	UN1855	I	Prohibited		
Calcium resinate	4.1	UN1313	III	Prohibited		
Calcium resinate, fused	4.1	UN1314	III	Prohibited		
Calcium selenate, see Selenates or Selenites						
Calcium silicide	4.3	UN1405	II, III	Only ORM-D	Prohibited	4A
Camphor oil	3	UN1130	III	Only ORM-D	Prohibited	3A
Camphor, synthetic	4.1	UN2717	III	Prohibited		
Cannon primers, see Primers, tubular						
Caproic acid	8	UN2829	III	Only ORM-D	8A	8A
Caps, blasting, see Detonators, etc.						
Carbamate pesticides, liquid, flammable, toxic, flashpoint less than 23° C	3	UN2758	I, II	Prohibited		
Carbamate pesticides, liquid, toxic	6.1	UN2992	I, II	Prohibited		
Carbamate pesticides, liquid, toxic	6.1	UN2992	III	Only ORM-D	6A	6A
Carbamate pesticide, liquid, toxic, flammable, flashpoint not less than 23° C	6.1	UN2991	I, II	Prohibited		
Carbamate pesticide, liquid, toxic, flammable, flashpoint not less than 23° C	6.1	UN2991	III	Only ORM-D	6A	6A
Carbamate pesticides, solid, toxic	6.1	UN2757	I, II	Prohibited		
Carbamate pesticides, solid, toxic	6.1	UN2757	III	Only ORM-D	6A	6A
Carbolic acid, see Phenol, solid or Phenol, molten						
Carbolic acid solutions, see Phenol solutions						
Carbon, animal or vegetable origin	4.2	UN1361	II, III	Prohibited		
Carbon, activated	4.2	UN1362	III	Prohibited		
Carbon bisulfide, see Carbon disulfide						
Carbon dioxide	2.2	UN1013	n/a	Only ORM-D	2B	2B
Carbon dioxide and nitrous oxide mixtures	2.2	UN1015	n/a	Only ORM-D	2B	2B
Carbon dioxide and oxygen mixtures, compressed	2.2	UN1014	n/a	Only ORM-D	2B	2B

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Carbon dioxide, refrigerated liquid	2.2	UN2187	n/a	Only ORM-D	2B	2B
Carbon dioxide, solid, or Dry ice	9	UN1845	III	Mailable per 349.23 and DMM 601.10.20.4	9A	9A
Carbon disulfide	3	UN1131	I	Prohibited		
Carbon monoxide, compressed	2.3	UN1016	n/a	Prohibited		
Carbon monoxide and hydrogen mixture, compressed	2.3	UN2600	n/a	Prohibited		
Carbon monoxide, refrigerated liquid (cryogenic liquid)	2.3	NA9202	n/a	Prohibited		
Carbon tetrabromide	6.1	UN2516	Ш	Only ORM-D	6A	6A
Carbon tetrachloride	6.1	UN1846	П	Prohibited		
Carbonyl chloride, see Phosgene						
Carbonyl fluoride, compressed	2.3	UN2417	n/a	Prohibited		
Carbonyl sulfide	2.3	UN2204	n/a	Prohibited		
Cartridge cases, empty primed, see Cases, cartridge, empty with primer						
Cartridges, actuating, for aircraft ejector seat catapult, fire extinguisher, canopy removal or apparatus, see Cartridges, power device						
Cartridges, explosive, see Charges, demolition						
Cartridges, flash	1.1G	UN0049	П	Prohibited		
Cartridges, flash	1.3G	UN0050	П	Prohibited		
Cartridges for weapons, blank	1.1C	UN0326	П	Prohibited		
Cartridges for weapons, blank	1.2C	UN0413	II	Prohibited		
Cartridges for weapons, blank or Cartridges, small arms, blank	1.3C	UN0327	II	Prohibited		
Cartridges for weapons, blank or Cartridges, small arms, blank	1.4C	UN0338	II	Prohibited		
Cartridges for weapons, blank or Cartridges, small arms, blank	1.4S	UN0014	II	Prohibited		
Cartridges for weapons, inert projectile	1.2C	UN0328	II	Prohibited		
Cartridges for weapons, inert projectile <i>or</i> Cartridges, small arms	1.3C	UN0417	II	Prohibited		
Cartridges for weapons, inert projectile <i>or</i> Cartridges, small arms	1.4C	UN0339	II	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names	Hazard Class	ID Number	DOT PG	USPS Mailability	Domestic Mail Air	Domestic Mail Surface
(a)	(b)	(c)	(d)	(e)	(f)	(g)
Cartridges for weapons, inert projectile <i>or</i> Cartridges, small arms	1.4S	UN0012	II	Prohibited		
Cartridges for weapons, with bursting charge	1.1E	UN0006	II	Prohibited		
Cartridges for weapons, with bursting charge	1.1F	UN0005	II	Prohibited		
Cartridges for weapons, with bursting charge	1.2E	UN0321	II	Prohibited		
Cartridges for weapons, with bursting charge	1.2F	UN0007	II	Prohibited		
Cartridges for weapons, with bursting charge	1.4E	UN0412	II	Prohibited		
Cartridges for weapons, with bursting charge	1.4F	UN0348	II	Prohibited		
Cartridges, oil well	1.3C	UN0277	П	Prohibited		
Cartridges, oil well	1.4C	UN0278	П	Prohibited		
Cartridges, power device	1.2C	UN0381	П	Prohibited		
Cartridges, power device	1.3C	UN0275	П	Prohibited		
Cartridges, power device	1.4C	UN0276	П	Prohibited		
Cartridges, power device	1.4S	UN0323	П	Prohibited		
Cartridges, safety, blank, see Cartridges for weapons, blank (UN0014)						
Cartridges, safety, see Cartridges for weapons, other than blank or Cartridges, power device (UN0323)						
Cartridges, signal	1.3G	UN0054	П	Prohibited		
Cartridges, signal	1.4G	UN0312	П	Prohibited		
Cartridges, signal	1.4S	UN0405	П	Prohibited		
Cartridges, small arms	ORM-D			Prohibited		
Cartridges, sporting, see Cartridges for weapons, other than blank						
Cartridges, starter, jet engine, see Cartridges, power device						
Cases, cartridge, empty with primer	1.4S	UN0055	II	Prohibited		
Cases, cartridges, empty with primer	1.4C	UN0379	11	Prohibited		
Cases, combustible, empty, without primer	1.4C	UN0446	II	Prohibited		
Cases, combustible, empty, without primer	1.3C	UN0447	II	Prohibited		
Casinghead gasoline see Gasoline						

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Castor beans or Castor meal or Castor pomace or Castor flake	9	UN2969	II	Only ORM-D	9C	9C
Caustic alkali liquids, n.o.s.	8	UN1719	II, III	Only ORM-D	8A	8A
Caustic potash, see Potassium hydroxide etc.						
Caustic soda, etc., see Sodium hydroxide etc.						
Cells, containing sodium	4.3	UN3292	П	Prohibited		
Celluloid, in block, rods, rolls, sheets, tubes, etc., except scrape	4.1	UN2000	III	Prohibited		
Celluloid, scrape	4.2	UN2002	Ш	Prohibited		
Cement, see Adhesives, containing flammable liquid						
Cerium, slabs, ingots, or rods	4.1	UN1333	П	Prohibited		
Cerium, turnings or gritty powder	4.3	UN3078	II	Only ORM-D	Prohibited	4A
Cesium or Caesium	4.3	UN1407	1	Prohibited		
Cesium nitrate <i>or</i> Caesium nitrate	5.1	UN1451	III	Only ORM-D	5A	5A
Charcoal briquettes, shell, screenings, wood, etc.	4.2	NA1361	III	Only ORM-D	Prohibited	4A
Charges, bursting, plastics bonded	1.1D	UN0457	II	Prohibited		
Charges, bursting, plastics bonded	1.2D	UN0458	II	Prohibited		
Charges, bursting, plastics bonded	1.4D	UN0459	II	Prohibited		
Charges, bursting, plastics bonded	1.4S	UN0460	II	Prohibited		
Charges, demolition	1.1D	UN0048	II	Prohibited		
Charges, depth	1.1D	UN0056	II	Prohibited		
Charges, expelling, explosive, for fire extinguishers, see Cartridges, power device						
Charges, explosive, commercial without detonator	1.1D	UN0442	II	Prohibited		
Charges, explosive, commercial without detonator	1.2D	UN0443	II	Prohibited		
Charges, explosive, commercial without detonator	1.4D	UN0444	II	Prohibited		
Charges, explosive, commercial without detonator	1.4S	UN0445	II	Prohibited		
Charges, propelling	1.1C	UN0271	II	Prohibited		
Charges, propelling	1.2C	UN0415	II	Prohibited		
Charges, propelling	1.3C	UN0272	П	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Charges, propelling	1.4C	UN0491	П	Prohibited		
Charges, propelling, for cannon	1.1C	UN0279	П	Prohibited		
Charges, propelling, for cannon	1.2C	UN0414	П	Prohibited		
Charges, propelling, for cannon	1.3C	UN0242	П	Prohibited		
Charges, shaped, without detonator	1.1D	UN0059	II	Prohibited		
Charges, shaped, without detonator	1.2D	UN0439	II	Prohibited		
Charges, shaped, without detonator	1.4D	UN0440	II	Prohibited		
Charges, shaped, without detonator	1.48	UN0441	II	Prohibited		
Charges, shaped, flexible, linear	1.1D	UN0288	II	Prohibited		
Charges, shaped, flexible, linear	1.4D	UN0237	П	Prohibited		
Charges, supplementary explosive	1.1D	UN0060	II	Prohibited		
Chemical kit	8	NA1760	П	Only ORM-D	8A	8A
Chemical kits or First aid kits (containing hazardous materials)	9	UN3316	n/a	Prohibited		
Chloral, anhydrous, inhibited	6.1	UN2075	П	Prohibited		
Chlorate and borate mixtures	5.1	UN1458	II, III	Only ORM-D	5A	5A
Chlorate and magnesium chloride mixtures	5.1	UN1459	II, III	Only ORM-D	5A	5A
Chlorate of potash, see Potassium chlorate						
Chlorate of soda, see Sodium chlorate						
Chlorates, inorganic, aqueous solutions, n.o.s.	5.1	UN3210	II	Only ORM-D	5A	5A
Chlorates, inorganic, n.o.s.	5.1	UN1461	П	Only ORM-D	5A	5A
Chloric acid aqueous solution, with not more than 10 percent chloric acid	5.1	UN2626	II	Prohibited		
Chloride of phosphorus, see Phosphorus trichloride						
Chloride of sulfur, see Sulfur chlorides						
Chlorinated lime, see Calcium hypochlorite mixtures, etc.						
Chlorine	2.3	UN1017	n/a	Prohibited		
Chlorine azide	Forbidden			Prohibited		
Chlorine dioxide (not hydrate)	Forbidden			Prohibited		
Chlorine dioxide, hydrate, frozen	5.1	NA9191	П	Prohibited		
Chlorine pentafluoride	2.3	UN2548	n/a	Prohibited		
Chlorine trifluoride	2.3	UN1749	n/a	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Chlorite solution	8	UN1908	II, III	Only ORM-D	8A	8A
Chlorites, inorganic, n.o.s.	5.1	UN1462	II	Only ORM-D	5A	5A
1-Chloro-3-bromopropane	6.1	UN2688	III	Only ORM-D	6A	6A
1-Chloro-1,1-difluoroethane, see Chlorodifluoroethanes						
1-Chloro-1,1-difluoroethane or Refrigerant gas R 142b	2.1	UN2517	n/a	Only ORM-D	Prohibited	2A
3-Chloro-4-methylphenyl isocyanate	6.1	UN2236	II	Prohibited		
1-Chloro-1,2,2,2-tetrafluoroetha ne or Refrigerant gas R 124	2.2	UN1021	n/a	Only ORM-D	2B	2B
4-Chloro-o-toluidine hydrochloride	6.1	UN1579	III	Only ORM-D	6A	6A
1-Chloro-2,2,2-trifluoroethane or Refrigerant gas R 133a	2.2	UN1983	n/a	Only ORM-D	2B	2B
Chloroacetic acid, molten	6.1	UN3250	II	Prohibited		
Chloroacetic acid, solid	6.1	UN1751	II	Prohibited		
Chloroacetic acid, solution	6.1	UN1750	II	Prohibited		
Chloroacetone, stabilized	6.1	UN1695	I	Prohibited		
Chloroacetone (unstabilized)	Forbidden			Prohibited		
Chloroacetonitrile	6.1	UN2668	II	Prohibited		
Chloroacetophenone (CN), liquid	6.1	UN1697	II	Prohibited		
Chloroacetophenone (CN), solid	6.1	UN1697	II	Prohibited		
Chloroacetyl chloride	6.1	UN1752	Ţ	Prohibited		
Chloroanilines, liquid	6.1	UN2019	II	Prohibited		
Chloroanilines, solid	6.1	UN2018	II	Prohibited		
Chloroanisidines	6.1	UN2233	III	Only ORM-D	6A	6A
Chlorobenzene	3	UN1134	III	Only ORM-D	Prohibited	3A
Chlorobenzol, see Chlorobenzene						
Chlorobenzotrifluorides	3	UN2234	III	Only ORM-D	Prohibited	3A
Chlorobenzyl chlorides	6.1	UN2235	Ш	Only ORM-D	6A	6A
Chlorobutanes	3	UN1127	II	Only ORM-D	Prohibited	3A
Chlorocresols, liquid	6.1	UN2669	II	Prohibited		
Chlorocresols, solid	6.1	UN2669	II	Prohibited		
Chlorodifluorobromomethane or Refrigerant gas R 12B1	2.2	UN1974	n/a	Only ORM-D	2B	2B
Chlorodifluoromethane <i>or</i> Refrigerant gas R 22	2.2	UN1018	n/a	Only ORM-D	2B	2B
Chlorodifluoromethane and chloropentafluoroethane mixture or Refrigerant gas R 502 with fixed boiling point, with approximately 49 percent chlorodifluoromethane	2.2	UN1973	n/a	Only ORM-D	2B	2B

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Chlorodinitrobenzenes	6.1	UN1577	II	Prohibited		
2-Chloroethanal	6.1	UN2232	I	Prohibited		
Chloroform	6.1	UN1888	III	Only ORM-D	6A	6A
Chloroformates, toxic, corrosive, flammable, n.o.s.	6.1	UN2742	II	Prohibited		
Chloroformates, toxic, corrosive, n.o.s.	6.1	UN3277	II	Prohibited		
Chloromethyl chloroformate	6.1	UN2745	П	Prohibited		
Chloromethyl ethyl ether	3	UN2354	П	Prohibited		
Chloronitroanilines	6.1	UN2237	III	Only ORM-D	6A	6A
Chloronitrobenzene, ortho, liquid	6.1	UN1578	II	Prohibited		
Chloronitrobenzenes meta or para, solid	6.1	UN1578	II	Prohibited		
Chloronitrotoluenes liquid	6.1	UN2433	III	Only ORM-D	6A	6A
Chloronitrotoluenes solid	6.1	UN2433	III	Only ORM-D	6A	6A
Chloropentafluoroethane <i>or</i> Refrigerant gas R 115	2.2	UN1020	n/a	Only ORM-D	2B	2B
Chlorophenolates, liquid <i>or</i> Phenolates, liquid	8	UN2904	III	Only ORM-D	8A	8A
Chlorophenolates, solid <i>or</i> Phenolates, solid	8	UN2905	III	Only ORM-D	8A	8A
Chlorophenols, liquid	6.1	UN2021	III	Only ORM-D	6A	6A
Chlorophenols, solid	6.1	UN2020	III	Only ORM-D	6A	6A
Chlorophenyltrichlorosilane	8	UN1753	П	Prohibited		
Chloropicrin	6.1	UN1580	ı	Prohibited		
Chloropicrin and methyl bromide mixtures	2.3	UN1581	n/a	Prohibited		
Chloropicrin and methyl chloride mixtures	2.3	UN1582	n/a	Prohibited		
Chloropicrin mixture, flammable (pressure not exceeding 14.7 psia at 115° F flashpoint below 100° F) see Toxic liquids, flammable, etc.						
Chloropicrin mixtures, n.o.s.	6.1	UN1583	I, II	Prohibited		
Chloropicrin mixtures, n.o.s.	6.1	UN1583	Ш	Only ORM-D	6A	6A
Chloropivaloyl chloride	6.1	NA9263	I	Prohibited		
Chloroplatinic acid, solid	8	UN2507	III	Only ORM-D	8A	8A
Chloroprene, inhibited	3	UN1991	I	Prohibited		
Chloroprene, uninhibited	Forbidden			Prohibited		
2-Chloropropane	3	UN2356	I	Only ORM-D	Prohibited	3A
3-Chloropropanol-1	6.1	UN2849	Ш	Only ORM-D	6A	6A
2-Chloropropene	3	UN2456	I	Only ORM-D	Prohibited	3A
2-Chloropropionic acid	8	UN2511	Ш	Only ORM-D	8A	8A

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
2-Chloropyridine	6.1	UN2822	II	Prohibited		
Chlorosilanes, corrosive, flammable, n.o.s.	8	UN2986	II	Prohibited		
Chlorosilanes, corrosive, n.o.s.	8	UN2987	II	Only ORM-D	8A	8A
Chlorosilanes, flammable, corrosive, n.o.s.	3	UN2985	II	Prohibited		
Chlorosilanes, water-reactive, flammable, corrosive, n.o.s.	4.3	UN2988	I	Prohibited		
Chlorosulfonic acid (with or without sulfur trioxide)	8	UN1754	I	Prohibited		
Chlorotoluenes	3	UN2238	Ш	Only ORM-D	Prohibited	3A
Chlorotoluidines liquid	6.1	UN2239	Ш	Only ORM-D	6A	6A
Chlorotoluidines solid	6.1	UN2239	III	Only ORM-D	6A	6A
Chlorotrifluoromethane <i>or</i> Refrigerant gas R 13	2.2	UN1022	n/a	Only ORM-D	2B	2B
Chlorotrifluoromethane and trifluoromethane azeotropic mixture or Refrigerant gas R 503 with approximately 60 percent chlorotrifluoromethane	2.2	UN2599	n/a	Only ORM-D	2B	2B
Chromic acid, solid	5.1	NA1463	II	Prohibited		
Chromic acid solution	8	UN1755	II, III	Only ORM-D	8A	8A
Chromic anhydride, see Chromium trioxide, anhydrous						
Chromic fluoride, solid	8	UN1756	II	Only ORM-D	8A	8A
Chromic fluoride, solution	8	UN1757	II, III	Only ORM-D	8A	8A
Chromium nitrate	5.1	UN2720	III	Only ORM-D	5A	5A
Chromium oxychloride	8	UN1758	I	Prohibited		
Chromium trioxide, anhydrous	5.1	UN1463	II	Prohibited		
Chromosulfuric acid	8	UN2240	I	Prohibited		
Chromyl chloride, see Chromium oxychloride						
Cigar and cigarette lighters, charged with fuel, see Lighters for cigars, cigarettes, etc.						
Coal briquettes, hot	Forbidden			Prohibited		
Coal gas, compressed	2.3	UN1023	n/a	Prohibited		
Coal tar distillates, flammable	3	UN1136	II, III	Only ORM-D	Prohibited	3A
Coal tar dye, corrosive, liquid, n.o.s., see Dyes, liquid or solid, n.o.s. or Dye intermediates, liquid or solid, n.o.s., corrosive						

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Coating solution (includes surface treatments or coatings used for industrial or other purposes such as vehicle undercoating, drum or barrel lining)	3	UN1139	1, 11, 111	Only ORM-D	Prohibited	3A
Cobalt naphthenates, powder	4.1	UN2001	III	Only ORM-D	Prohibited	4A
Cobalt resinate, precipitated	4.1	UN1318	III	Only ORM-D	Prohibited	4A
Coke, hot	Forbidden			Prohibited		
Collodion, see Nitrocellulose etc.						
Combustible liquid, n.o.s.	3 (Com- bustible Liquid)	NA1993	III	Only ORM-D	Mailable only per 343 and DMM 601.10.13.3	3B
Components, explosive train, n.o.s.	1.1B	UN0461	II	Prohibited		
Components, explosive train, n.o.s.	1.2B	UN0382	II	Prohibited		
Components, explosive train, n.o.s.	1.4B	UN0383	II	Prohibited		
Components, explosive train, n.o.s.	1.4S	UN0384	II	Prohibited		
Composition B, see Hexolite, etc.						
Compounds, cleaning liquid	8	NA1760	I	Prohibited		
Compounds, cleaning liquid	8	NA1760	II, III	Only ORM-D	8A	8A
Compounds, cleaning liquid	3	NA1993	I, II, III	Only ORM-D	8A	8A
Compounds, tree killing liquid or Compounds, weed killing, liquid	3	NA1993	1, 11, 111	Only ORM-D	Prohibited	3A
Compounds, tree killing liquid or Compounds, weed killing, liquid	6.1	NA2810	I, II	Prohibited		
Compounds, tree killing liquid or Compounds, weed killing, liquid	6.1	NA2810	Ш	Only ORM-D	6A	6A
Compounds, tree killing liquid or Compounds, weed killing, liquid	8	NA1760	I	Prohibited		
Compounds, tree killing liquid or Compounds, weed killing, liquid	8	NA1760	II, III	Only ORM-D	8A	8A
Compressed gas, flammable, n.o.s.	2.1	UN1954	n/a	Only ORM-D	Prohibited	2A
Compressed gas, n.o.s.	2.2	UN1956	n/a	Only ORM-D	2B	2B
Compressed gas, oxidizing, n.o.s.	2.2	UN3156	n/a	Only ORM-D	2B	2B
Compressed gas, toxic, n.o.s. Inhalation Hazard Zone A, B, C, or D	2.3	UN1955	n/a	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a) Compressed gas, toxic,	Hazard Class (b)	ID Number (c) UN3304	DOT PG (d)	USPS Mailability (e) Prohibited	Domestic Mail Air (f)	Domestic Mail Surface (g)
corrosive, n.o.s. Inhalation Hazard Zone A, B, C, or D						
Compressed gas, toxic, flammable, n.o.s. <i>Inhalation Hazard Zone A, B, C, or D</i>	2.3	UN1953	n/a	Prohibited		
Compressed gas, toxic, flammable, corrosive, n.o.s. Inhalation Hazard Zone A, B, C, or D	2.3	UN3305	n/a	Prohibited		
Compressed gas, toxic, oxidizing, corrosive, n.o.s. Inhalation Hazard Zone A, B, C, or D	2.3	UN3306	n/a	Prohibited		
Compressed gas, toxic, oxidizing, n.o.s. <i>Inhalation Hazard Zone A, B, C, or D</i>	2.3	UN3303	n/a	Prohibited		
Contrivances, water-activated, with burster, expelling charge, or propelling charge	1.2L	UN0248	II	Prohibited		
Contrivances, water-activated, with burster, expelling charge, or propelling charge	1.3L	UN0249	II	Prohibited		
Copper acetoarsenite	6.1	UN1585	П	Prohibited		
Copper acetylide	Forbidden			Prohibited		
Copper amine azide	Forbidden			Prohibited		
Copper arsenite	6.1	UN1586	П	Prohibited		
Copper based pesticides, liquid, flammable, toxic, flashpoint less than 23° C	3	UN2776	I, II	Prohibited		
Copper based pesticides, liquid, toxic	6.1	UN3010	I, II	Prohibited		
Copper based pesticides, liquid, toxic	6.1	UN3010	III	Only ORM-D	6A	6A
Copper based pesticides, liquid, toxic, flammable, flashpoint not less than 23° C	6.1	UN3009	I, II	Prohibited		
Copper based pesticides, liquid, toxic, flammable, flashpoint not less than 23°C	6.1	UN3009	III	Only ORM-D	6A	6A
Copper based pesticides, solid, toxic	6.1	UN2775	I, II	Prohibited		
Copper based pesticides, solid, toxic	6.1	UN2775	III	Only ORM-D	6A	6A
Copper chlorate	5.1	UN2721	Ш	Only ORM-D	5A	5A
Copper chloride	8	UN2802	III	Only ORM-D	8A	8A
Copper cyanide	6.1	UN1587	II	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Copper selenate, see Selenates or Selenites						
Copper selenite, see Selenates or Selenites						
Copper tetramine nitrate	Forbidden			Prohibited		
Copra	4.2	UN1363	III	Prohibited		
Cord, detonating <i>or</i> Fuse, detonating <i>metal clad</i>	1.1D	UN0290	II	Prohibited		
Cord detonating or Fuse detonating metal clad	1.2D	UN0102	II	Prohibited		
Cord, detonating, flexible	1.1D	UN0065	П	Prohibited		
Cord, detonating, flexible	1.4D	UN0289	П	Prohibited		
Cord, detonating, mild effect or Fuse, detonating, mild effect metal clad	1.4D	UN0104	II	Prohibited		
Cord, igniter	1.4G	UN0066	П	Prohibited		
Cordeau detonat fuse, see Cord, detonating, etc.; Cord, detonating, flexible						
Cordite, see Powder, smokeless						
Corrosive liquid, acidic, inorganic, n.o.s.	8	UN3264	I	Prohibited		
Corrosive liquid, acidic, inorganic, n.o.s.	8	UN3264	II, III	Only ORM-D	8A	8A
Corrosive liquid, acidic, organic, n.o.s.	8	UN3265	I	Prohibited		
Corrosive liquid, acidic, organic, n.o.s.	8	UN3265	II, III	Only ORM-D	8A	8A
Corrosive liquid, basic, inorganic, n.o.s.	8	UN3266	I	Prohibited		
Corrosive liquid, basic, inorganic, n.o.s	8	UN3266	II, III	Only ORM-D	8A	8A
Corrosive liquid, basic, organic, n.o.s.	8	UN3267	I	Prohibited		
Corrosive liquid, basic, organic, n.o.s.	8	UN3267	II, III	Only ORM-D	8A	8A
Corrosive liquids, self-heating, n.o.s.	8	UN3301	I	Prohibited		
Corrosive liquids, self-heating, n.o.s.	8	UN3301	II	Only ORM-D	8A	8A
Corrosive liquids, flammable, n.o.s.	8	UN2920	I, II	Prohibited		
Corrosive liquids, n.o.s.	8	UN1760	I	Prohibited		
Corrosive liquids, n.o.s.	8	UN1760	II, III	Only ORM-D	8A	8A
Corrosive liquids, oxidizing, n.o.s.	8	UN3093	I, II	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Corrosive liquids, toxic, n.o.s.	8	UN2922	I, II	Prohibited		
Corrosive liquids, toxic, n.o.s.	8	UN2922	Ш	Only ORM-D	8A	8A
Corrosive liquids, water-reactive, n.o.s.	8	UN3094	1, 11	Prohibited		
Corrosive solid, acidic, inorganic, n.o.s.	8	UN3260	I	Prohibited		
Corrosive solid, acidic, inorganic, n.o.s.	8	UN3260	II, III	Only ORM-D	8A	8A
Corrosive solid, acidic, organic, n.o.s.	8	UN3261	I	Prohibited		
Corrosive solid, acidic, organic, n.o.s.	8	UN3261	II, III	Only ORM-D	8A	8A
Corrosive solid, basic, inorganic, n.o.s.	8	UN3262	I	Prohibited		
Corrosive solid, basic, inorganic, n.o.s.	8	UN3262	II, III	Only ORM-D	8A	8A
Corrosive solid, basic, organic, n.o.s.	8	UN3263	I	Prohibited		
Corrosive solid, basic, organic, n.o.s.	8	UN3263	II, III	Only ORM-D	8A	8A
Corrosive solids, flammable, n.o.s.	8	UN2921	I, II	Prohibited		
Corrosive solids, n.o.s.	8	UN1759	I	Prohibited		
Corrosive solids, n.o.s.	8	UN1759	II, III	Only ORM-D	8A	8A
Corrosive solids, oxidizing, n.o.s.	8	UN3084	I, II	Prohibited		
Corrosive solids, self-heating, n.o.s.	8	UN3095	I, II	Prohibited		
Corrosive solids, toxic, n.o.s.	8	UN2923	I, II	Prohibited		
Corrosive solids, toxic, n.o.s.	8	UN2923	III	Only ORM-D	8A	8A
Corrosive solids, water-reactive, n.o.s.	8	UN3096	I, II	Prohibited		
Cotton	9	NA1365	n/a	Prohibited		
Cotton waste, oily	4.2	UN1364	Ш	Prohibited		
Cotton, wet	4.2	UN1365	III	Prohibited		
Coumarin derivative pesticides, liquid, flammable, toxic, flashpoint less than 23°C	3	UN3024	I, II	Prohibited		
Coumarin derivative pesticides, liquid, toxic	6.1	UN3026	1, 11	Prohibited		
Coumarin derivative pesticides, liquid, toxic	6.1	UN3026	III	Only ORM-D	6A	6A
Coumarin derivative pesticides, liquid, toxic, flammable, flashpoint not less than 23° C	6.1	UN3025	I, II	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Coumarin derivative pesticides, liquid, toxic, flammable, flashpoint not less than 23° C	6.1	UN3025	III	Only ORM-D	6A	6A
Coumarin derivative pesticides, solid, toxic	6.1	UN3027	I, II	Prohibited		
Coumarin derivative pesticides, solid, toxic	6.1	UN3027	III	Only ORM-D	6A	6A
Cresols	6.1	UN2076	П	Prohibited		
Cresylic acid	6.1	UN2022	П	Prohibited		
Crotonaldehyde, stabilized	6.1	UN1143	I	Prohibited		
Crotonic acid <i>liquid</i>	8	UN2823	III	Only ORM-D	8A	8A
Crotonic acid solid	8	UN2823	Ш	Only ORM-D	8A	8A
Crotonylene	3	UN1144	I	Only ORM-D	Prohibited	3A
Cupriethylenediamine solution	8	UN1761	П	Prohibited		
Cupriethylenediamine solution	8	UN1761	Ш	Only ORM-D	8A	8A
Cutters, cable, explosive	1.4S	UN0070	П	Prohibited		
Cyanide, or cyanide mixtures, dry, see Cyanides, inorganic, solid, n.o.s.						
Cyanide solutions, n.o.s.	6.1	UN1935	I, II	Prohibited		
Cyanide solutions, n.o.s.	6.1	UN1935	III	Only ORM-D	6A	6A
Cyanides, inorganic, solid, n.o.s.	6.1	UN1588	I, II	Prohibited		
Cyanides, inorganic, solid, n.o.s.	6.1	UN1588	Ш	Only ORM-D	6A	6A
Cyanogen	2.3	UN1026	n/a	Prohibited		
Cyanogen bromide	6.1	UN1889	I	Prohibited		
Cyanogen chloride, inhibited	2.3	UN1589	n/a	Prohibited		
Cyanuric chloride	8	UN2670	П	Prohibited		1
Cyanuric triazide	Forbidden			Prohibited		
Cyclobutane	2.1	UN2601	n/a	Only ORM-D	Prohibited	2A
Cyclobutyl chloroformate	6.1	UN2744	П	Prohibited		
1,5,9-Cyclododecatriene	6.1	UN2518	Ш	Only ORM-D	6A	6A
Cycloheptane	3	UN2241	П	Only ORM-D	Prohibited	ЗА
Cycloheptatriene	3	UN2603	П	Prohibited		
Cycloheptene	3	UN2242	П	Only ORM-D	Prohibited	3A
Cyclohexane	3	UN1145	П	Only ORM-D	Prohibited	3A
Cyclohexanone	3	UN1915	III	Only ORM-D	Prohibited	ЗА
Cyclohexene	3	UN2256	П	Only ORM-D	Prohibited	3A
Cyclohexenyltrichlorosilane	8	UN1762	П	Prohibited		1
Cyclohexyl acetate	3	UN2243	III	Only ORM-D	Prohibited	3A
Cyclohexyl isocyanate	6.1	UN2488	I	Prohibited		†
Cyclohexyl mercaptan	3	UN3054	Ш	Only ORM-D	Prohibited	3A
Cyclohexylamine	8	UN2357	П	Prohibited		1
Cyclohexyltrichlorosilane	8	UN1763	П	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Cyclonite and cyclotetramethylenetetranitramine mixtures, wetted <i>or</i> desensitized see RDX and HMX mixtures, wetted <i>or</i> desensitized, <i>etc.</i>						
Cyclonite and HMX mixtures, wetted <i>or</i> desensitized see RDX and HMX mixtures, wetted <i>or</i> desensitized <i>etc.</i>						
Cyclonite and octogen mixtures, wetted <i>or</i> desensitized <i>see</i> RDX and HMX mixtures, wetted <i>or</i> desensitized <i>etc</i> .						
Cyclonite, see cyclotrimethylenetrinitramine, etc.						
Cyclooctadiene phosphines, see 9-Phosphabicyclononanes						
Cyclooctadienes	3	UN2520	III	Only ORM-D	Prohibited	3A
Cyclooctatetraene	3	UN2358	II	Only ORM-D	Prohibited	3A
Cyclopentane	3	UN1146	II	Only ORM-D	Prohibited	3A
Cyclopentane, methyl, see Methylcyclopentane						
Cyclopentanol	3	UN2244	Ш	Only ORM-D	Prohibited	3A
Cyclopentanone	3	UN2245	Ш	Only ORM-D	Prohibited	3A
Cyclopentene	3	UN2246	II	Only ORM-D	Prohibited	3A
Cyclopropane	2.1	UN1027	n/a	Only ORM-D	Prohibited	2A
Cyclotetramethylene tetranitramine (dry or unphlegmatized) (HMX)	Forbidden			Prohibited		
Cyclotetramethylenetetranitramine, desensitized <i>or</i> Octogen, desensitized <i>or</i> HMX, desensitized	1.1D	UN0484	II	Prohibited		
Cyclotetramethylenetetranitramine, wetted or HMX, wetted or Octogen, wetted with not less than 15 percent water, by mass	1.1D	UN0226	II	Prohibited		
Cyclotrimethylenenitramine and octogen, mixtures, wetted or desensitized see RDX and HMX mixtures, wetted or desensitized etc.						
Cyclotrimethylenetrinitramine and cyclotetramethylenetetranitramine mixtures, wetted <i>or</i> desensitized see RDX and HMX mixtures, wetted <i>or</i> desensitized <i>etc</i> .						

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Cyclotrimethylenetrinitramine and HMX mixtures, wetted <i>or</i> desensitized see RDX and HMX mixtures, wetted <i>or</i> desensitized <i>etc.</i>						
Cyclotrimethylenetrinitramine, desensitized or Cyclonite, desensitized or Hexogen, desensitized or RDX, desensitized	1.1D	UN0483	II	Prohibited		
Cyclotrimethylenetrinitramine, wetted or Cyclonite, wetted or Hexogen, wetted or RDX, wetted with not less than 15 percent water by mass	1.1D	UN0072	II	Prohibited		
Cymenes	3	UN2046	III	Only ORM-D	Prohibited	3A
Dangerous Goods in Machinery or Dangerous Goods in Apparatus	n/a	NA8001	n/a	Prohibited		
Decaborane	4.1	UN1868	II	Prohibited		
Decahydronaphthalene	3	UN1147	III	Only ORM-D	Prohibited	3A
n-Decane	3	UN2247	III	Only ORM-D	Prohibited	3A
Decaborane	4.1	UN1868	П	Prohibited		
Decahydronaphthalene	3	UN1147	III	Only ORM-D	Prohibited	3A
n-Decane	3	UN2247	III	Only ORM-D	Prohibited	3A
Deflagrating metal salts of aromatic nitroderivatives, n.o.s.	1.3C	UN0132	II	Prohibited		
Delay electric igniter, see Igniters						
Denatured alcohol	3	NA1986	I, II	Prohibited		
Denatured alcohol	3	NA1986	III	Only ORM-D	Prohibited	3A
Denatured alcohol	3	NA1987	II, III	Only ORM-D	Prohibited	3A
Depth charges, see Charges, depth						
Detonating relays, see Detonators, etc.						
Detonator assemblies, non-electric for blasting	1.1B	UN0360	II	Prohibited		
Detonator assemblies, non-electric for blasting	1.4B	UN0361	II	Prohibited		
Detonator assemblies, non-electric for blasting	1.48	UN0500	II	Prohibited		
Detonators, electric, for blasting	1.1B	UN0030	II	Prohibited		
Detonators, electric, for blasting	1.4B	UN0255	II	Prohibited		
Detonators, electric, for blasting	1.4S	UN0456	II	Prohibited		
Detonators for ammunition	1.1B	UN0073	П	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Detonators for ammunition	1.2B	UN0364	П	Prohibited		
Detonators for ammunition	1.4B	UN0365	П	Prohibited		
Detonators for ammunition	1.4S	UN0366	II	Prohibited		
Detonators, non-electric, for blasting	1.1B	UN0029	II	Prohibited		
Detonators, non-electric, for blasting	1.4B	UN0267	II	Prohibited		
Detonators, non-electric, for blasting	1.48	UN0455	II	Prohibited		
Deuterium, compressed	2.1	UN1957	n/a	Only ORM-D	Prohibited	2A
Devices, small, hydrocarbon gas powered or Hydrocarbon gas refills for small devices with release device	2.1	UN3150	n/a	Only ORM-D	Prohibited	2A
Di-n-amylamine	3	UN2841	Ш	Only ORM-D	Prohibited	3A
Di-n-butyl peroxydicarbonate, with more than 52 percent in solution	Forbidden			Prohibited		
Di-n-butylamine	8	UN2248	П	Prohibited		
2,2-Di-(tert-butylperoxy) butane, with more than 55 percent in solution	Forbidden			Prohibited		
Di-(tert-butylperoxy) phthalate, with more than 55 percent in solution	Forbidden			Prohibited		
2,2-Di-(4,4-di-tert-butylperoxycy clohexyl) propane, with more than 42 percent with inert solid	Forbidden			Prohibited		
Di-2,4-dichlorobenzoyl peroxide, with more than 75 percent with water	Forbidden			Prohibited		
1,2-Di-(dimethylamino)ethane	3	UN2372	П	Only ORM-D	Prohibited	3A
Di-2-ethylhexyl phosphoric acid, see Diisooctyl acid phosphate						
Di-(1-hydroxytetrazole) (dry)	Forbidden			Prohibited		
Di-(1-naphthoyl) peroxide	Forbidden			Prohibited		
Di-(beta-nitroxyethyl) ammonium nitrate	Forbidden			Prohibited		
a,a'-Di-(nitroxy) methylether	Forbidden			Prohibited		
Diacetone alcohol	3	UN1148	II, III	Only ORM-D	Prohibited	3A

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Diacetone alcohol peroxides, with more than 57 percent in solution with more than 9 percent hydrogen peroxide, less than 26 percent diacetone alcohol and less than 9 percent water; total active oxygen content more than 9 percent by mass	Forbidden			Prohibited		
Diacetyl, see Butanedione						
Diacetyl peroxide, solid, or with more than 25 percent in solution	Forbidden			Prohibited		
Diallylamine	3	UN2359	П	Prohibited		
Diallylether	3	UN2360	II	Prohibited		
4,4'-Diaminodiphenyl methane	6.1	UN2651	Ш	Only ORM-D	6A	6A
p-Diazidobenzene	Forbidden			Prohibited		
1,2-Diazidoethane	Forbidden			Prohibited		
1,1'-Diazoaminonaphthalene	Forbidden			Prohibited		
Diazoaminotetrazole (dry)	Forbidden			Prohibited		
Diazodinitrophenol (dry)	Forbidden			Prohibited		
Diazodinitrophenol, wetted with not less than 40 percent water or mixture of alcohol and water, by mass	1.1A	UN0074	II	Prohibited		
Diazodiphenylmethane	Forbidden			Prohibited		
Diazonium nitrates (dry)	Forbidden			Prohibited		
Diazonium perchlorates (dry)	Forbidden			Prohibited		
1,3-Diazopropane	Forbidden			Prohibited		
Dibenzyl peroxydicarbonate, with more than 87 percent with water	Forbidden			Prohibited		
Dibenzyldichlorosilane	8	UN2434	Ш	Only ORM-D	8A	8A
Diborane, compressed	2.3	UN1911	n/a	Prohibited		
Diborane mixtures	2.1	NA1911	n/a	Prohibited	Prohibited	2A
Dibromoacetylene	Forbidden			Prohibited		
1,2-Dibromobutan-3-one	6.1	UN2648	П	Prohibited		
Dibromochloropropane	6.1	UN2872	Ш	Only ORM-D	6A	6A
Dibromodifluoromethane, R12B2	9	UN1941	III	Only ORM-D	9C	9C
1,2-Dibromoethane, see Ethylene dibromide						
Dibromomethane	6.1	UN2664	Ш	Only ORM-D	6A	6A
Dibutyl ethers	3	UN1149	Ш	Only ORM-D	Prohibited	3A
Dibutylaminoethanol	6.1	UN2873	Ш	Only ORM-D	6A	6A
N,N'-Dichlorazodicarbonamidine (salts of) (dry)	Forbidden			Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
1,1-Dichloro-1-nitroethane	6.1	UN2650	II	Prohibited		
3,5-Dichloro-	6.1	NA9264	I	Prohibited		
2,4,6-trifluoropyridine						
Dichloroacetic acid	8	UN1764	П	Only ORM-D	8A	8A
1,3-Dichloroacetone	6.1	UN2649	П	Prohibited		
Dichloroacetyl chloride	8	UN1765	II	Only ORM-D	8A	8A
Dichloroacetylene	Forbidden			Prohibited		
Dichloroanilines, liquid	6.1	UN1590	Ш	Prohibited		
Dichloroanilines, solid	6.1	UN1590	П	Prohibited		
o-Dichlorobenzene	6.1	UN1591	Ш	Only ORM-D	6A	6A
Dichlorobutene	8	NA2920	I	Prohibited		
2,2'-Dichlorodiethyl ether	6.1	UN1916	II	Prohibited		
Dichlorodifluoromethane or Refrigerant gas R 12	2.2	UN1028	n/a	Only ORM-D	2B	2B
Dichlorodifluoromethane and difluoroethane azeotropic mixture or Refrigerant gas R 500 with approximately 74 percent dichlorodifluoromethane	2.2	UN2602	n/a	Only ORM-D	2B	2B
Dichlorodimethyl ether, symmetrical	6.1	UN2249	I	Prohibited		
1,1-Dichloroethane	3	UN2362	Ш	Only ORM-D	Prohibited	3A
1,2-Dichloroethane, see Ethylene dichloride						
Dichloroethyl sulfide	Forbidden			Prohibited		
1,2-Dichloroethylene	3	UN1150	II	Only ORM-D	Prohibited	3A
Dichlorofluoromethane <i>or</i> Refrigerant gas R 21	2.2	UN1029	n/a	Only ORM-D	2B	2B
Dichloroisocyanuric acid, dry or Dichloroisocyanuric acid salts	5.1	UN2465	II	Only ORM-D	5A	5A
Dichlorodisopropyl ether	6.1	UN2490	Ш	Prohibited		
Dichloromethane	6.1	UN1593	Ш	Only ORM-D	6A	6A
Dichloropentanes	3	UN1152	Ш	Only ORM-D	Prohibited	ЗА
Dichlorophenyl isocyanates	6.1	UN2250	II	Prohibited		
Dichlorophenyltrichlorosilane	8	UN1766	Ш	Prohibited		
1,2-Dichloropropane	3	UN1279	Ш	Only ORM-D	Prohibited	3A
1,3-Dichloropropanol-2	6.1	UN2750	Ш	Prohibited		
Dichloropropene and propylene dichloride mixture, see Propylene dichloride						
Dichloropropenes	3	UN2047	II, III	Only ORM-D	Prohibited	3A
Dichlorosilane	2.3	UN2189	n/a	Prohibited		
1,2-Dichloro-1,1,2,2-Tetrafluoro ethane <i>or</i> Refrigerant gas R 114	2.2	UN1958	n/a	Only ORM-D	2B	2B
Dichlorovinylchloroarsine	Forbidden			Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Dicycloheptadiene, see 2,5-Norbornadiene						
Dicyclohexylamine	8	UN2565	III	Only ORM-D	8A	8A
Dicyclohexylammonium nitrate	4.1	UN2687	III	Only ORM-D	Prohibited	4A
Dicyclopentadiene	3	UN2048	III	Only ORM-D	Prohibited	3A
Didymium nitrate	5.1	UN1465	Ш	Only ORM-D	5A	5A
Dieldrin	6.1	NA2761	П	Prohibited		
Diesel fuel	3	NA1993	III	Only ORM-D	Prohibited	3A
Diethanol nitrosamine dinitrate (dry)	Forbidden			Prohibited		
Diethoxymethane	3	UN2373	П	Only ORM-D	Prohibited	3A
3,3-Diethoxypropene	3	UN2374	П	Only ORM-D	Prohibited	3A
Diethyl carbonate	3	UN2366	Ш	Only ORM-D	Prohibited	3A
Diethyl cellosolve, see Ethylene glycol diethyl ether						
Diethyl ether or Ethyl ether	3	UN1155	I	Only ORM-D	Prohibited	3A
Diethyl ketone	3	UN1156	П	Only ORM-D	Prohibited	3A
Diethyl peroxydicarbonate, with more than 27 percent in solution	Forbidden			Prohibited		
Diethyl sulfate	6.1	UN1594	П	Prohibited		
Diethyl sulfide	3	UN2375	П	Prohibited		
Diethylamine	3	UN1154	П	Prohibited		
2-Diethylaminoethanol	8	UN2686	П	Prohibited		
Diethylaminopropylamine	3	UN2684	III	Only ORM-D	Prohibited	3A
N,N-Diethylaniline	6.1	UN2432	III	Only ORM-D	6A	6A
Diethylbenzene	3	UN2049	Ш	Only ORM-D	Prohibited	3A
Diethyldichlorosilane	8	UN1767	П	Prohibited	8A	8A
Diethylene glycol dinitrate	Forbidden			Prohibited		
Diethyleneglycol dinitrate, desensitized with not less than 25 percent non-volatile water-insoluble phlegmatizer, by mass	1.1D	UN0075	II	Prohibited		
Diethylenetriamine	8	UN2079	II	Only ORM-D	8A	8A
N,N-Diethylethylenediamine	8	UN2685	II	Prohibited		
Diethylgold bromide	Forbidden			Prohibited		
Diethylthiophosphoryl chloride	8	UN2751	II	Prohibited		
Diethylzinc	4.2	UN1366	I	Prohibited		
Difluorochloroethanes, see 1-Chloro-1,1-difluoroethanes						
1,1-Difluoroethane <i>or</i> Refrigerant gas R 152a	2.1	UN1030	n/a	Only ORM-D	Prohibited	2A
1,1-Difluoroethylene <i>or</i> Refrigerant gas R 1132a	2.1	UN1959	n/a	Only ORM-D	Prohibited	2A

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Difluoromethane <i>or</i> Refrigerant gas R 32	2.1	UN3252	n/a	Only ORM-D	Prohibited	2A
Difluorophosphoric acid, anhydrous	8	UN1768	II	Prohibited		
2,3-Dihydropyran	3	UN2376	П	Only ORM-D	Prohibited	3A
1,8-Dihydroxy-2,4,5,7-tetranitroa nthraquinone (chrysamminic acid)	Forbidden			Prohibited		
Diiodoacetylene	Forbidden			Prohibited		
Diisobutyl ketone	3	UN1157	Ш	Only ORM-D	Prohibited	3A
Diisobutylamine	3	UN2361	Ш	Only ORM-D	Prohibited	3A
Diisobutylene, isomeric compounds	3	UN2050	II	Only ORM-D	Prohibited	3A
Diisooctyl acid phosphate	8	UN1902	Ш	Only ORM-D	8A	8A
Diisopropyl ether	3	UN1159	П	Only ORM-D	Prohibited	3A
Diisopropylamine	3	UN1158	П	Prohibited		
Diisopropylbenzene hydroperoxide, with more than 72 percent in solution	Forbidden			Prohibited		
Diketene, inhibited	6.1	UN2521	I	Prohibited		
1,2-Dimethoxyethane	3	UN2252	П	Only ORM-D	Prohibited	3A
1,1-Dimethoxyethane	3	UN2377	П	Only ORM-D	Prohibited	3A
Dimethyl carbonate	3	UN1161	П	Only ORM-D	Prohibited	3A
Dimethyl chlorothiophosphate, see Dimethyl thiophosphoryl chloride						
2,5-Dimethyl-2,5-dihydroperoxy hexane, with more than 82 percent with water	Forbidden			Prohibited		
Dimethyl disulfide	3	UN2381	П	Only ORM-D	Prohibited	3A
Dimethyl ether	2.1	UN1033	n/a	Only ORM-D	Prohibited	2A
Dimethyl sulfate	6.1	UN1595	I	Prohibited		
Dimethyl sulfide	3	UN1164	П	Prohibited		
Dimethyl thiophosphoryl chloride	6.1	UN2267	II	Prohibited		
Dimethyl-N-propylamine	3	UN2266	П	Prohibited		
Dimethylamine, anhydrous	2.1	UN1032	n/a	Prohibited		
Dimethylamine solution	3	UN1160	П	Prohibited		
2-Dimethylaminoacetonitrile	3	UN2378	П	Prohibited		
2-Dimethylaminoethanol	8	UN2051	П	Only ORM-D	8A	8A
2-Dimethylaminoethyl acrylate	6.1	UN3302	П	Prohibited		
2-Dimethylaminoethyl methacrylate	6.1	UN2522	II	Prohibited		
N,N-Dimethylaniline	6.1	UN2253	П	Prohibited		
2,3-Dimethylbutane	3	UN2457	П	Only ORM-D	Prohibited	3A

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
1,3-Dimethylbutylamine	3	UN2379	II	Prohibited	(-)	(9)
Dimethylcardamoyl chloride	8	UN2262	II.	Only ORM-D	8A	8A
Dimethylcyclohexanes	3	UN2263	II.	Only ORM-D	Prohibited	3A
Dimethylcyclohexlamine	8	UN2264	II.	Only ORM-D	8A	8A
Dimethyldichlorosilane	3	UN1162	II.	Prohibited		+
Dimethyldiethoxysilane	3	UN2380	II	Only ORM-D	Prohibited	3A
Dimethyldioxanes	3	UN2707	II, III	Only ORM-D	Prohibited	3A
N,N-Dimethylformamide	3	UN2265	III	Only ORM-D	Prohibited	3A
Dimethylhexane dihydroperoxide (dry)	Forbidden			Prohibited		
Dimethylhydrazine, symmetrical	6.1	UN2382	I	Prohibited		
Dimethylhydrazine, unsymmetrical	6.1	UN1163	I	Prohibited		
2,2-Dimethylpropane	2.1	UN2044	n/a	Only ORM-D	Prohibited	2A
Dimethylzinc	4.2	UN1370	I	Prohibited		
Dintro-o-cresol, solid	6.1	UN1598	II	Prohibited		
Dintro-o-cresol, solution	6.1	UN1598	II	Prohibited		
1,4-Dinitro-1,1,4,4- tetramethylolbutanetetranitrate (dry)	Forbidden			Prohibited		
2,4-Dinitro-1,3,5-trimethylbenze ne	Forbidden			Prohibited		
1,3-Dinitro-4,5-dinitrosobenzene	Forbidden			Prohibited		
1,3-Dinitro-5,5-dimethyl hydantoin	Forbidden			Prohibited		
Dinitro-7,8-dimethylglycoluril (dry)	Forbidden			Prohibited		
Dinitroanilines	6.1	UN1596	II	Prohibited		
Dinitrobenzenes, liquid	6.1	UN1597	II	Prohibited		
Dinitrobenzenes, solid	6.1	UN1597	II	Prohibited		
Dinitrochlorobenzene, see Chlorodinitrobenzenes						
1,2-Dinitroethane	Forbidden			Prohibited		
1,1-Dinitroethane (dry)	Forbidden			Prohibited		
Dinitrogen tetroxide	2.3	UN1067	n/a	Prohibited		
Dinitroglycoluril or Dingu	1.1D	UN0489	II	Prohibited		
Dinitromethane	Forbidden			Prohibited		
Dinitrophenol, dry or wetted with less than 15 percent water, by mass	1.1D	UN0076	II	Prohibited		
Dinitrophenel solutions	6.1	UN1599	II	Prohibited		
Dinitrophenol, wetted with not less than 15 percent water, by mass	4.1	UN1320	I	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Dinitrophenolates alkali metals, dry or wetted with less than 15 percent water, by mass	1.3C	UN0077	II	Prohibited		
Dinitrophenolates, wetted with not less than 15 percent water, by mass	4.1	UN1321	I	Prohibited		
Dinitropropylene glycol	Forbidden			Prohibited		
2,4-Dinitroresorcinol (heavy metal salts of) (dry)	Forbidden			Prohibited		
4,6-Dinitroresorcinol (heavy metal salts of) (dry)	Forbidden			Prohibited		
Dinitroresorcinol, dry or wetted with less than 15 percent water, by mass	1.1D	UN0078	II	Prohibited		
Dinitroresorcinol, wetted with not less than 15 percent water, by mass	4.1	UN1322	I	Prohibited		
3,5-Dinitrosalicylic acid (lead salt) (dry)	Forbidden			Prohibited		
Dinitrosobenzene	1.3C	UN0406	П	Prohibited		
Dinitrosobenzylamidine and salts of (dry)	Forbidden			Prohibited		
2,2-Dinitrostilbene	Forbidden			Prohibited		
Dinitrotoluenes, liquid	6.1	UN2038	П	Prohibited		
Dinitrotoluenes, molten	6.1	UN1600	П	Prohibited		
Dinitrotoluenes, solid	6.1	UN2038	П	Prohibited		
1,9-Dinitroxy pentamethylene-2,4,6,8-tetrami ne (dry)	Forbidden			Prohibited		
Dioxane	3	UN1165	П	Only ORM-D	Prohibited	3A
Dioxolane	3	UN1166	П	Only ORM-D	Prohibited	3A
Dipentene	3	UN2052	III	Only ORM-D	Prohibited	3A
Diphenylamine chloroarsine	6.1	UN1698	I	Prohibited		
Diphenylchloroarsine, liquid	6.1	UN1699	I	Prohibited		
Diphenylchloroarsine, solid	6.1	UN1699	I	Prohibited		
Diphenyldichlorosilane	8	UN1769	П	Prohibited		
Diphenylmethyl bromide	8	UN1770	II	Only ORM-D	8A	8A
Dipicryl sulfide, dry or wetted with less than 10 percent water, by mass	1.1D	UN0401	II	Prohibited		
Dipicryl sulfide, wetted with not less than 10 percent water, by mass	4.1	UN2852	I	Prohibited		
Dipicrylamine, see Hexanitrodiphenylamine						

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Dipropionyl peroxide, with more than 28 percent in solution	Forbidden			Prohibited		
Di-n-propyl ether	3	UN2384	П	Only ORM-D	Prohibited	3A
Dipropyl ketone	3	UN2710	Ш	Only ORM-D	Prohibited	3A
Dipropylamine	3	UN2383	П	Prohibited		
Disinfectants, liquid, corrosive, n.o.s.	8	UN1903	I	Prohibited		
Disinfectants, liquid, corrosive, n.o.s.	8	UN1903	II, III	Only ORM-D	8A	8A
Disinfectants, liquid, toxic, n.o.s.	6.1	UN3142	I, II	Prohibited		
Disinfectants, liquid, toxic, n.o.s.	6.1	UN3142	Ш	Only ORM-D	6A	6A
Disinfectants, solid, toxic, n.o.s.	6.1	UN1601	П	Prohibited		
Disinfectants, solid, toxic, n.o.s.	6.1	UN1601	Ш	Only ORM-D	6A	6A
Disodium trioxosilicate	8	UN3253	Ш	Only ORM-D	8A	8A
Dispersant gases, n.o.s. see Refrigerant gases, n.o.s.						
Divinyl ether, inhibited	3	UN1167	I	Prohibited		
Dodecylbenzenesulfonic acid	8	NA2584	П	Only ORM-D	8A	8A
Dodecyltrichlorosilane	8	UN1771	П	Prohibited		
Dry ice, see Carbon dioxide, solid						
Dyes, liquid, corrosive, n.o.s. <i>or</i> Dye intermediates, liquid, corrosive, n.o.s.	8	UN2801	I	Prohibited		
Dyes, liquid, corrosive, n.o.s. <i>or</i> Dye intermediates, liquid, corrosive, n.o.s.	8	UN2801	II, III	Only ORM-D	8A	8A
Dyes, liquid, toxic, n.o.s. <i>or</i> Dye intermediates, liquid, toxic, n.o.s.	6.1	UN1602	II	Prohibited		
Dyes, liquid, toxic, n.o.s. <i>or</i> Dye intermediates, liquid, toxic, n.o.s.	6.1	UN1602	III	Only ORM-D	6A	6A
Dyes, solid, corrosive, n.o.s. <i>or</i> Dye intermediates, solid, corrosive, n.o.s.	8	UN3147	I	Prohibited		
Dyes, solid, corrosive, n.o.s. or Dye intermediates, solid, corrosive, n.o.s.	8	UN3147	II, III	Only ORM-D	8A	8A
Dyes, solid, toxic, n.o.s. <i>or</i> Dye intermediates, solid, toxic, n.o.s.	6.1	UN3143	I, II	Prohibited		
Dyes, solid, toxic, n.o.s. <i>or</i> Dye intermediates, solid, toxic, n.o.s.	6.1	UN3143	III	Only ORM-D	6A	6A

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Dynamite, see Explosive, blasting, type A						
Electrolyte (acid or alkali) for batteries, see Battery fluid, acid or Battery fluid, alkali						
Elevated temperature liquid, flammable, n.o.s., with flashpoint above 37.8° C, at or above its flashpoint	3	UN3256	III	Prohibited		
Elevated temperature liquid, n.o.s., at or above 100° C and below its flashpoint (including molten metals, molten salts, etc.)	9	UN3257	III	Prohibited		
Elevated temperature solid, n.o.s., at or above 240° C, see 49 CFR 173.247(h)(4)	9	UN3258	III	Prohibited		
Engines, internal combustion, flammable gas powered	9	UN3166	n/a	Prohibited		
Engines, internal combustion, flammable liquid powered	9	UN3166	n/a	Prohibited		
Environmentally hazardous substances, liquid, n.o.s.	9	UN3082	III	Only ORM-D	9C	9C
Environmentally hazardous substances, solid, n.o.s.	9	UN3077	III	Only ORM-D	9C	9C
Epibromohydrin	6.1	UN2558	I	Prohibited		
Epichlorohydrin	6.1	UN2023	II	Prohibited		
1,2-Epoxy-3-ethoxypropane	3	UN2752	Ш	Only ORM-D	Prohibited	3A
Esters, n.o.s.	3	UN3272	II, III	Only ORM-D	Prohibited	3A
Etching acid, liquid, n.o.s., see Hydrofluoric acid, solution etc.						
Ethane	2.1	UN1035	n/a	Only ORM-D	Prohibited	2A
Ethane-Propane mixture, refrigerated liquid	2.1	NA1961	n/a	Prohibited		
Ethane, refrigerated liquid	2.1	UN1961	n/a	Prohibited		
Ethanol or Ethyl alcohol or Ethanol solutions or Ethyl alcohol solutions	3	UN1170	II, III	Only ORM-D	Prohibited	3A
Ethanol amine dinitrate	Forbidden			Prohibited		
Ethanolamine <i>or</i> Ethanolamine solutions	8	UN2491	III	Only ORM-D	8A	8A
Ether, see Diethyl ether						
Ethers, n.o.s.	3	UN3271	II, III	Only ORM-D	Prohibited	3A
Ethyl acetate	3	UN1173	II	Only ORM-D	Prohibited	3A
Ethyl acrylate, inhibited	3	UN1917	II	Only ORM-D	Prohibited	3A
Ethyl alcohol, see Ethanol						

Hazardous Materials Descriptions and Proper Shipping Names	Hazard Class	ID Number	DOT PG	USPS Mailability	Domestic Mail Air	Domestic Mail Surface
(a)	(b)	(c)	(d)	(e)	(f)	(g)
Ethyl aldehyde, see Acetaldehyde						
Ethyl amyl ketone	3	UN2271	III	Only ORM-D	Prohibited	3A
N-Ethyl-N-benzylaniline	6.1	UN2274	Ш	Only ORM-D	6A	6A
Ethyl borate	3	UN1176	II	Only ORM-D	Prohibited	3A
Ethyl bromide	6.1	UN1891	II	Prohibited		
Ethyl bromoacetate	6.1	UN1603	II	Prohibited		
Ethyl butyl ether	3	UN1179	II	Only ORM-D	Prohibited	3A
Ethyl butyrate	3	UN1180	Ш	Only ORM-D	Prohibited	3A
Ethyl chloride	2.1	UN1037	n/a	Prohibited		
Ethyl chloroacetate	6.1	UN1181	II	Prohibited		
Ethyl chloroformate	6.1	UN1182	I	Prohibited		
Ethyl 2-chloropropionate	3	UN2935	Ш	Only ORM-D	Prohibited	3A
Ethyl chlorothioformate	8	UN2826	II	Prohibited		
Ethyl crotonate	3	UN1862	II	Only ORM-D	Prohibited	3A
Ethyl ether, see Diethyl ether						
Ethyl fluoride <i>or</i> Refrigerant gas R 161	2.1	UN2453	n/a	Only ORM-D	Prohibited	2A
Ethyl formate	3	UN1190	П	Only ORM-D	Prohibited	3A
Ethyl hydroperoxide	Forbidden			Prohibited		
Ethyl isobutyrate	3	UN2385	II	Only ORM-D	Prohibited	ЗА
Ethyl isocyanate	3	UN2481	ı	Prohibited		
Ethyl lactate	3	UN1192	III	Only ORM-D	Prohibited	3A
Ethyl mercaptan	3	UN2363	ı	Prohibited		
Ethyl methacrylate	3	UN2277	П	Only ORM-D	Prohibited	ЗА
Ethyl methyl ether	2.1	UN1039	n/a	Prohibited		
Ethyl methyl ketone <i>or</i> Methyl ethyl ketone	3	UN1193	II	Only ORM-D	Prohibited	3A
Ethyl nitrate solutions	3	UN1194	I	Prohibited		
Ethyl orthoformate	3	UN2524	III	Only ORM-D	Prohibited	3A
Ethyl oxalate	6.1	UN2525	III	Only ORM-D	6A	6A
Ethyl perchlorate	Forbidden			Prohibited		
Ethyl phosphonothioic dichloride, anhydrous	6.1	NA2927	I	Prohibited		
Ethyl phosphonous dichloride, anhydrous <i>pyrophoric liquid</i>	6.1	NA2845	I	Prohibited		
Ethyl phosphorodichloridate	6.1	NA2927	ı	Prohibited		
Ethyl propionate	3	UN1195	II	Only ORM-D	Prohibited	3A
Ethyl propyl ether	3	UN2615	II	Only ORM-D	Prohibited	3A
Ethyl silicate, see Tetraethyl silicate				-		
Ethylacetylene, inhibited	2.1	UN2452	n/a	Prohibited		
Ethylamine	2.1	UN1036	n/a	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Ethylamine, aqueous solution with not less than 50 percent but not more than 70 percent ethylamine	3	UN2270	II	Prohibited		
N-Ethylaniline	6.1	UN2272	III	Only ORM-D	6A	6A
2-Ethylaniline	6.1	UN2273	III	Only ORM-D	6A	6A
Ethylbenzene	3	UN1175	II	Only ORM-D	Prohibited	3A
N-Ethylbenzyltoluidines liquid	6.1	UN2753	III	Only ORM-D	6A	6A
N-Ethylbenzyltoluidines solid	6.1	UN2753	III	Only ORM-D	6A	6A
2-Ethylbutanol	3	UN2275	III	Only ORM-D	Prohibited	3A
2-Ethylbutyl acetate	3	UN1177	III	Only ORM-D	Prohibited	3A
2-Ethylbutyraldehyde	3	UN1178	II	Only ORM-D	Prohibited	3A
Ethyldichloroarsine	6.1	UN1892	Ţ	Prohibited		
Ethyldichlorosilane	4.3	UN1183	I	Prohibited		
Ethylene, acetylene and propylene in mixture, refrigerated liquid with at least 71.5 percent ethylene with not more than 22.5 percent acetylene and not more than 6 percent propylene	2.1	UN3138	n/a	Prohibited		
Ethylene chlorohydrin	6.1	UN1135	I	Prohibited		1
Ethylene, compressed	2.1	UN1962	n/a	Only ORM-D	Prohibited	2A
Ethylene diamine diperchlorate	Forbidden			Prohibited		1
Ethylene dibromide	6.1	UN1605	I	Prohibited		
Ethylene dibromide and methyl bromide liquid mixtures, see Methyl bromide and ethylene dibromide mixtures, liquid						
Ethylene dichloride	3	UN1184	II	Prohibited		
Ethylene glycol diethyl ether	3	UN1153	Ш	Only ORM-D	Prohibited	3A
Ethylene glycol dinitrate	Forbidden			Prohibited		
Ethylene glycol monoethyl ether	3	UN1171	Ш	Only ORM-D	Prohibited	3A
Ethylene glycol monoethyl ether acetate	3	UN1172	III	Only ORM-D	Prohibited	3A
Ethylene glycol monomethyl ether	3	UN1188	III	Only ORM-D	Prohibited	3A
Ethylene glycol monomethyl ether acetate	3	UN1189	III	Only ORM-D	Prohibited	3A
Ethylene oxide or Ethylene oxide with nitrogen up to a total pressure of 1MPa (10 bar) at 50° C	2.3	UN1040	n/a	Prohibited		
Ethylene oxide and carbon dioxide mixtures with more than 87 percent ethylene oxide	2.3	UN3300	n/a	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Ethylene oxide and carbon dioxide mixtures with more than 9 percent but not more than 87 percent ethylene oxide	2.1	UN1041	n/a	Only ORM-D	Prohibited	2A
Ethylene oxide and carbon dioxide mixtures with not more than 9percent ethylene oxide	2.2	UN1952	n/a	Only ORM-D	2B	2B
Ethylene oxide and chlorotetrafluoroethane mixture with not more than 8.8 percent ethylene oxide	2.2	UN3297	n/a	Only ORM-D	2B	2B
Ethylene oxide and dichlorodifluoromethane mixture with not more than 12.5 percent ethylene oxide	2.2	UN3070	n/a	Only ORM-D	2B	2B
Ethylene oxide and pentafluoroethane mixture with not more than 7.9 percent ethylene oxide	2.2	UN3298	n/a	Only ORM-D	2B	2B
Ethylene oxide and propylene oxide mixtures with not more than 30 percent ethylene oxide	3	UN2983	I	Prohibited		
Ethylene oxide and tetrafluoroethane mixture with not more than 5.6 percent ethylene oxide	2.2	UN3299	n/a	Only ORM-D	2B	2B
Ethylene, refrigerated liquid (cryogenic liquid)	2.1	UN1038	n/a	Prohibited		
Ethylenediamine	8	UN1604	П	Only ORM-D	8A	8A
Ethyleneimine, inhibited	6.1	UN1185	I	Prohibited		
Ethylhexaldehyde, see Octyl aldehydes etc.						
2-Ethylhexyl chloroformate	6.1	UN2748	П	Prohibited		
2-Ethylhexylamine	3	UN2276	III	Only ORM-D	Prohibited	3A
Ethylphenyldichlorosilane	8	UN2435	II	Prohibited		
1-Ethylpiperidine	3	UN2386	II	Prohibited		1
N-Ethyltoluidines	6.1	UN2754	II	Prohibited		1
Ethyltrichlorosilane	3	UN1196	II	Prohibited		
Etiologic agent, see Infectious substances, etc.						
Explosive articles, see Articles, explosive, n.o.s. etc.						
Explosive, blasting, type A	1.1D	UN0081	II	Prohibited		
Explosive, blasting, type B	1.1D	UN0082	II	Prohibited		
Explosive, blasting, type B or Agent blasting, Type B	1.5D	UN0331	II	Prohibited		
Explosive, blasting, type C	1.1D	UN0083	II	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Explosive, blasting, type D	1.1D	UN0084	П	Prohibited		
Explosive, blasting, type E	1.1D	UN0241	II	Prohibited		
Explosive, blasting, type E or Agent blasting, Type E	1.5D	UN0332	II	Prohibited		
Explosive, forbidden. See 49 CFR 173.54	Forbidden			Prohibited		
Explosive substances, see Substances, explosive, n.o.s. etc.						
Explosives, slurry, see Explosive, blasting, type E						
Explosives, water gels, see Explosive, blasting, type E						
Extracts, aromatic, liquid	3	UN1169	II, III	Only ORM-D	Prohibited	3A
Extracts, flavoring, liquid	3	UN1197	II, III	Only ORM-D	Prohibited	3A
Fabric with animal or vegetable oil, see Fibers or Fabrics, etc.						
Ferric arsenate	6.1	UN1606	П	Prohibited		
Ferric arsenite	6.1	UN1607	II	Prohibited		
Ferric chloride, anhydrous	8	UN1773	Ш	Only ORM-D	8A	8A
Ferric chloride, solution	8	UN2582	Ш	Only ORM-D	8A	8A
Ferric nitrate	5.1	UN1466	Ш	Only ORM-D	5A	5A
Ferrocerium	4.1	UN1323	II	Only ORM-D	Prohibited	4A
Ferrosilicon, with 30 percent or more but less than 90 percent silicon	4.3	UN1408	III	Only ORM-D	Prohibited	4A
Ferrous arsenate	6.1	UN1608	П	Prohibited		
Ferrous chloride, solid	8	NA1759	II	Only ORM-D	8A	8A
Ferrous chloride, solution	8	NA1760	II	Only ORM-D	8A	8A
Ferrous metal borings or Ferrous metal shavings or Ferrous metal turnings or Ferrous metal cuttings in a form liable to self-heating	4.2	UN2793	III	Prohibited		
Fertilizer ammoniating solution with free ammonia	2.2	UN1043	n/a	Only ORM-D	2B	2B
Fibers <i>or</i> Fabrics impregnated with weakly nitrated nitrocellulose, n.o.s.	4.1	UN1353	III	Prohibited		
Fibers or Fabrics, animal or vegetable or Synthetic, n.o.s. with animal or vegetable oil	4.2	UN1373	III	Prohibited		
Films, nitrocellulose base, gelatine coated (except scrap)	4.1	UN1324	III	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Films, nitrocellulose base, from which gelatine has been removed; film scrap, see Celluloid scrap						
Fire extinguisher charges, corrosive liquid	8	UN1774	II	Only ORM-D	8A	8A
Fire extinguisher charges, expelling, explosive, see Cartridges, power device						
Fire extinguishers containing compressed or liquefied gas	2.2	UN1044	n/a	Mailable only per 342.22d	2C	2C
Firelighters, solid with flammable liquid	4.1	UN2623	III	Prohibited		
Fireworks	1.1G	UN0333	П	Prohibited		
Fireworks	1.2G	UN0334	II	Prohibited		
Fireworks	1.3G	UN0335	II	Prohibited		
Fireworks	1.4G	UN0336	II	Prohibited		
Fireworks	1.4S	UN0337	II	Prohibited		
Fish meal, stabilized <i>or</i> Fish scrap, stabilized	9	UN2216	Ш	Only ORM-D	9C	9C
Fish meal, unstabilized <i>or</i> Fish scrap, unstabilized	4.2	UN1374	II	Prohibited		
Fissile radioactive materials, see Radioactive material, fissile, n.o.s.						
Flammable compressed gas (small receptacles not fitted with a dispersion device, not refillable), see Receptacles, etc.						
Flammable compressed gas, see Compressed or Liquefied gas, flammable, etc.						
Flammable gas in lighters, see Lighters or lighter refills, cigarettes, containing flammable gas						
Flammable liquid, toxic, corrosive, n.o.s.	3	UN3286	I, II	Prohibited		
Flammable liquids, corrosive, n.o.s.	3	UN2924	I, II	Prohibited		
Flammable liquids, corrosive, n.o.s.	3	UN2924	III	Only ORM-D	Prohibited	3A
Flammable liquids, n.o.s.	3	UN1993	I, II, III	Only ORM-D	Prohibited	3A
Flammable liquids, toxic, n.o.s.	3	UN1992	I, II	Prohibited		
Flammable liquids, toxic, n.o.s.	3	UN1992	III	Only ORM-D	Prohibited	3A
Flammable solid, corrosive, inorganic, n.o.s.	4.1	UN3180	II, III	Only ORM-D	Prohibited	4A

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Flammable solid, inorganic, n.o.s.	4.1	UN3178	II, III	Only ORM-D	Prohibited	4A
Flammable solid, organic, molten, n.o.s.	4.1	UN3176	II, III	Only ORM-D	Prohibited	4A
Flammable solid, oxidizing, n.o.s.	4.1	UN3097	II, III	Prohibited		
Flammable solid, toxic, inorganic, n.o.s.	4.1	UN3179	II, III	Only ORM-D	Prohibited	4A
Flammable solids, corrosive, organic, n.o.s.	4.1	UN2925	II	Prohibited		
Flammable solids, corrosive, organic, n.o.s.	4.1	UN2925	III	Only ORM-D	Prohibited	4A
Flammable solids, organic, n.o.s.	4.1	UN1325	11, 111	Only ORM-D	Prohibited	4A
Flammable solids, toxic, organic, n.o.s.	4.1	UN2926	II	Prohibited		
Flammable solids, toxic, organic, n.o.s.	4.1	UN2926	III	Only ORM-D	Prohibited	4A
Flares, aerial	1.1G	UN0420	II	Prohibited		
Flares, aerial	1.2G	UN0421	II	Prohibited		
Flares, aerial	1.3G	UN0093	Ш	Prohibited		
Flares, aerial	1.4G	UN0403	II	Prohibited		
Flares, aerial	1.4S	UN0404	Ш	Prohibited		
Flares, airplane, see Flares, aerial						
Flares, signal, see Cartridges, signal						
Flares, surface	1.1G	UN0418	Ш	Prohibited		
Flares, surface	1.2G	UN0419	II	Prohibited		
Flares, surface	1.3G	UN0092	II	Prohibited		
Flares, water-activated, see Contrivances, water-activated, etc.						
Flash powder	1.1G	UN0094	Ш	Prohibited		
Flash powder	1.3G	UN0305	II	Prohibited		
Flue dusts, poisonous, see Arsenical dust						
Fluoric acid, see Hydrofluoric acid, solution, etc.						
Fluorine, compressed	2.3	UN1045	n/a	Prohibited		
Fluoroacetic acid	6.1	UN2642	I	Prohibited		
Fluoroanilines	6.1	UN2941	III	Only ORM-D	6A	6A
Fluorobenzene	3	UN2387	Ш	Only ORM-D	Prohibited	3A
Fluoroboric acid	8	UN1775	Ш	Only ORM-D	8A	8A
Fluorophosphoric acid anhydrous	8	UN1776	II	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names	Hazard Class	ID Number	DOT PG	USPS Mailability	Domestic Mail Air	Domestic Mail Surface
(a)	(b)	(c)	(d)	(e)	(f)	(g)
Fluorosilicates, n.o.s.	6.1	UN2856	Ш	Only ORM-D	6A	6A
Fluorosilicic acid	8	UN1778	II	Prohibited		
Fluorosulfonic acid	8	UN1777	I	Prohibited		
Fluorotoluenes	3	UN2388	II	Only ORM-D	Prohibited	3A
Forbidden materials, see 49 CFR 173.21	Forbidden			Prohibited		
Formaldehyde, solutions, with not less than 25 percent formaldehyde	8	UN2209	III	Only ORM-D	8A	8A
Formaldehyde, solutions, flammable	3	UN1198	III	Only ORM-D	Prohibited	3A
Formalin, see Formaldehyde, solutions, etc.						
Formic acid	8	UN1779	II	Only ORM-D	8A	8A
Fracturing devices, explosives, without detonators for oil wells	1.1D	UN0099	II	Prohibited		
Fuel, aviation, turbine engine	3	UN1863	1, 11, 111	Only ORM-D	Prohibited	3A
Fuel oil (No. 1, 2, 4, 5, or 6)	3	NA1993	Ш	Only ORM-D	Prohibited	3A
Fulminate of mercury (dry)	Forbidden			Prohibited		
Fulminate of mercury, wet, see Mercury fulminate, etc.						
Fulminating gold	Forbidden			Prohibited		
Fulminating mercury	Forbidden			Prohibited		
Fulminating platinum	Forbidden			Prohibited		
Fulminating silver	Forbidden			Prohibited		
Fulminic acid	Forbidden			Prohibited		
Fumaryl chloride	8	UN1780	II	Only ORM-D	8A	8A
Fumigated lading, see 49 CFR 172.302(g), 173.9, and 176.76(h)				Prohibited		
Furaldehydes	6.1	UN1199	II	Prohibited		
Furan	3	UN2389	I	Prohibited		
Furfuryl alcohol	6.1	UN2874	Ш	Only ORM-D	6A	6A
Furfurylamine	3	UN2526	Ш	Only ORM-D	Prohibited	3A
Fuse, detonating, <i>metal clad</i> , see Cord, detonating, <i>metal clad</i>						
Fuse, detonating, mild effect, metal clad, see Cord, detonating, mild effect, metal clad						
Fuse, igniter tubular metal clad	1.4G	UN0103	П	Prohibited		
Fuse, non-detonating (instantaneous or quickmatch)	1.3G	UN0101	II	Prohibited		
Fuse, safety	1.4S	UN0105	II	Mailable only with approval per 341.22b	Prohibited	1B

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Fusee (railway or highway)	4.1	NA1325	П	Prohibited		
Fusel oil	3	UN1201	II, III	Only ORM-D	Prohibited	3A
Fuses, tracer, see Tracers for ammunition						
Fuzes, combination, percussion and time, see Fuzes, detonating (UN0257, UN0367); Fuzes, igniting (UN0317, UN0368)						
Fuzes, detonating	1.1B	UN0106	П	Prohibited		
Fuzes, detonating	1.2B	UN0107	П	Prohibited		
Fuzes, detonating	1.4B	UN0257	П	Prohibited		
Fuzes, detonating	1.4S	UN0367	П	Prohibited		
Fuzes, detonating, with protective features	1.1D	UN0408	II	Prohibited		
Fuzes, detonating, with protective features	1.2D	UN0409	II	Prohibited		
Fuzes, detonating, with protective features	1.4D	UN0410	II	Prohibited		
Fuzes, igniting	1.3G	UN0316	П	Prohibited		
Fuzes, igniting	1.4G	UN0317	П	Prohibited		
Fuzes, igniting	1.4S	UN0368	П	Prohibited		
	1	<u> </u>	<u> </u>	ı	1	<u> </u>
Galactsan trinitrate	Forbidden			Prohibited		
Gallium	8	UN2803	III	Prohibited		
Gas cartridges (flammable) without a release device, non-refillable	2.1	UN2037	n/a	Only ORM-D	Prohibited	2A
Gas generator assemblies (aircraft), containing a nonflammable nontoxic gas and a propellant cartridge	2.2	None	n/a	Prohibited	2B	2B
Gas identification set	2.3	NA9035	n/a	Prohibited		
Gas oil or Diesel fuel or Heating oil, light	3	UN1202	III	Only ORM-D	Prohibited	3A
Gas, refrigerated liquid, flammable, n.o.s. (cryogenic liquid)	2.1	UN3312	n/a	Prohibited		
Gas, refrigerated liquid, n.o.s. (cryogenic liquid)	2.2	UN3158	n/a	Prohibited		
Gas, refrigerated liquid, oxidizing, n.o.s. (cryogenic liquid)	2.2	UN3311	n/a	Prohibited		
Gas sample, non-pressurized, flammable, n.o.s., not refrigerated liquid	2.1	UN3167	n/a	Only ORM-D	Prohibited	2A

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Gas sample, non-pressurized, toxic, flammable, n.o.s., not refrigerated liquid	2.3	UN3168	n/a	Prohibited		
Gas sample, non-pressurized, toxic, n.o.s., not refrigerated liquid	2.3	UN3169	n/a	Prohibited		
Gasohol gasoline mixed with ethyl alcohol, with not more than 20 percent alcohol	3	NA1203	II	Only ORM-D	Prohibited	3A
Gasoline	3	UN1203	II	Prohibited per 343.23		
Gasoline, casinghead, see Gasoline						
Gelatine, blasting, see Explosive, blasting, type A						
Gelatine dynamites, see Explosive, blasting, type A						
Germane	2.3	UN2192	n/a	Prohibited		
Glycerol-1,3-dinitrate	Forbidden			Prohibited		
Glycerol gluconate trinitrate	Forbidden			Prohibited		
Glycerol lactate trinitrate	Forbidden			Prohibited		
Glycerol alpha-monochlorohydrin	6.1	UN2689	III	Only ORM-D	6A	6A
Glyceryl trinitrate, see Nitroglycerin, etc.						
Glycidaldehyde	3	UN2622	II	Only ORM-D	Prohibited	3A
Grenades, empty primed	1.4S	NA0349	П	Prohibited		
Grenades, hand or rifle, with bursting charge	1.1D	UN0284	II	Prohibited		
Grenades, hand or rifle, with bursting charge	1.1F	UN0292	II	Prohibited		
Grenades, hand or rifle, with bursting charge	1.2D	UN0285	II	Prohibited		
Grenades, hand or rifle, with bursting charge	1.2F	UN0293	II	Prohibited		
Grenades, illuminating, see Ammunition, illuminating, etc.						
Grenades, practice, hand or rifle	1.2G	UN0372	II	Prohibited		
Grenades, practice, hand or rifle	1.3G	UN0318	II	Prohibited		
Grenades, practice, hand or rifle	1.4G	UN0452	II	Prohibited		
Grenades, practice, hand or rifle	1.4S	UN0110	II	Prohibited		
Grenades, smoke, see Ammunition, smoke, etc.						
Guanidine nitrate	5.1	UN1467	III	Only ORM-D	5A	5A
Guanyl nitrosaminoguanylidene hydrazine (dry)	Forbidden			Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Guanyl nitrosaminoguanylidene hydrazine, wetted with not less than 30 percent water, by mass	1.1A	UN0113	II	Prohibited		
Guanyl nitrosaminoguanyltetrazene (dry)	Forbidden			Prohibited		
Guanyl nitrosaminoguanyltetrazene, wetted or Tetrazene, wetted with not less than 30 percent water or mixture of alcohol and water, by mass	1.1A	UN0114	II	Prohibited		
Gunpowder, granular or as a meal, see Black powder, etc. (UN0027)						
Gunpowder, compressed <i>or</i> Gunpowder in pellets, <i>see</i> Black powder, <i>etc.</i> (UN0028)						
Hafnium powder, dry	4.2	UN2545	I, II, III	Prohibited	1	1
Hafnium powder, wetted with not less than 25 percent water (a visible excess of water must be present) (a) mechanically produced, particle size less than 53 microns; (b) chemically produced, particle size less than 840 microns	4.1	UN1326	1, 11, 11	Prohibited		
Hand signal device, see Signal devices, hand						
Hazardous substances, liquid or solid, n.o.s., see Environmentally hazardous substances, etc.						
Hazardous waste, liquid, n.o.s.	9	NA3082	III	Prohibited		
Hazardous waste, solid, n.o.s.	9	NA3077	III	Prohibited		
Helium, compressed Helium-oxygen mixture, see Rare gases and oxygen mixtures etc.	2.2	UN1046	n/a	Only ORM-D	2B	2B
Helium, refrigerated liquid (cyrogenic liquid)	2.2	UN1963	n/a	Prohibited		
Heptafluoropropane <i>or</i> Refrigerant gas R 227	2.2	UN3296	n/a	Only ORM-D	2B	2B
n-Heptaldehyde	3	UN3056	III	Only ORM-D	Prohibited	3A
Heptanes	3	UN1206	II	Only ORM-D	Prohibited	3A
n-Heptane	3	UN2278	II	Only ORM-D	Prohibited	3A
Hexachloroacetone	6.1	UN2661	III	Only ORM-D	6A	6A
Hexachlorobenzene	6.1	UN2729	III	Only ORM-D	6A	6A
Hexachlorobutadiene	6.1	UN2279	Ш	Only ORM-D	6A	6A

Hazardous Materials Descriptions and Proper Shipping Names	Hazard Class	ID Number	DOT PG	USPS Mailability	Domestic Mail Air	Domestic Mail Surface
(a)	(b)	(c)	(d)	(e)	(f)	(g)
Hexachlorocyclopentadiene	6.1	UN2646	I	Prohibited		
Hexachlorophene	6.1	UN2875	Ш	Only ORM-D	6A	6A
Hexadecyltrichlorosilane	8	UN1781	II	Prohibited		
Hexadienes	3	UN2458	II	Prohibited		
Hexaethyl tetraphosphate and compressed gas mixtures	2.3	UN1612	n/a	Prohibited		
Hexaethyl tetraphosphate, liquid	6.1	UN1611	II	Prohibited		
Hexaethyl tetraphosphate, solid	6.1	UN1611	II	Prohibited		
Hexafluoroacetone	2.3	UN2420	n/a	Prohibited		
Hexafluoroacetone hydrate	6.1	UN2552	П	Prohibited		
Hexafluoroethane, compressed or Refrigerant gas R 116	2.2	UN2193	n/a	Only ORM-D	2B	2B
Hexafluorophosphoric acid	8	UN1782	II	Prohibited		
Hexafluoropropylene, compressed <i>or</i> Refrigerant gas R 1216	2.2	UN1858	n/a	Only ORM-D	2B	2B
Hexaldehyde	3	UN1207	III	Only ORM-D	Prohibited	3A
Hexamethylene diisocyanate	6.1	UN2281	П	Prohibited		
Hexamethylene triperoxide diamine (dry)	Forbidden			Prohibited		
Hexamethylenediamine solution	8	UN1783	II	Prohibited		
Hexamethylenediamine solution	8	UN1783	III	Only ORM-D	8A	8A
Hexamethylenediamine, solid	8	UN2280	Ш	Only ORM-D	8A	8A
Hexamethyleneimine	3	UN2493	II	Prohibited		
Hexamethylenetetramine	4.1	UN1328	Ш	Only ORM-D	Prohibited	4A
Hexamethylol benzene hexanitrate	Forbidden			Prohibited		
Hexanes	3	UN1208	П	Only ORM-D	Prohibited	3A
2,2',4,4',6,6'-Hexanitro-3,3'-dihy droxyazobenzene (dry)	Forbidden			Prohibited		
Hexanitroazoxy benzene	Forbidden			Prohibited		
Hexanitrodiphenyl urea	Forbidden			Prohibited		
N,N'-(hexanitrodiphenyl) ethylene dinitramine (dry)	Forbidden			Prohibited		
Hexanitrodiphenylamine or Dipicrylamine or Hexyl	1.1D	UN0079	II	Prohibited		
2,2',3',4,4',6-Hexanitrodiphenyla mine	Forbidden			Prohibited		
2,3',4,4',6,6'-Hexanitrodiphenyle ther	Forbidden			Prohibited		
Hexanitroethane	Forbidden			Prohibited		
Hexanitrooxanilide	Forbidden			Prohibited		
Hexanitrostilbene	1.1D	UN0392	II	Prohibited		
Hexanoic acid, see Corrosive liquids, n.o.s.						

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Hexanols	3	UN2282	Ш	Only ORM-D	Prohibited	3A
1-Hexene	3	UN2370	11	Only ORM-D	Prohibited	3A
Hexogen and cyclotetramethylenetetranitramine mixtures, wetted <i>or</i> desensitized see RDX and HMX mixtures, wetted <i>or</i> desensitized <i>etc</i> .						
Hexogen and HMX mixtures, wetted <i>or</i> desensitized <i>see</i> RDX and HMX mixtures, wetted <i>or</i> desensitized <i>etc</i> .						
Hexogen and octogen mixtures, wetted <i>or</i> desensitized <i>see</i> RDX and HMX mixtures, wetted <i>or</i> desensitized <i>etc.</i>						
Hexogen, see Cyclotrimethylenetrinitramine, etc.						
Hexolite, or Hexotol dry or wetted with less than 15 percent water, by mass	1.1D	UN0118	II	Prohibited		
Hexotonal	1.1D	UN0393	II	Prohibited		
Hexyl, see Hexanitrodiphenylamine						
Hexyltrichlorosilane	8	UN1784	Ш	Prohibited		
High explosives, see individual explosives' entries						
HMX, see Cyclotetramethylenetetranitramine, etc.						
Hydrazine, anhydrous or Hydrazine aqueous solutions with more than 64 percent hydrazine, by mass	8	UN2029	I	Prohibited		
Hydrazine, aqueous solution with not more than 37 percent hydrazine, by mass	6.1	UN3293	III	Only ORM-D	6A	6A
Hydrazine azide	Forbidden			Prohibited		
Hydrazine chlorate	Forbidden			Prohibited		
Hydrazine decarbonic acid diazide	Forbidden			Prohibited		
Hydrazine hydrate or Hydrazine aqueous solutions, with not less than 37 percent but not more than 64 percent hydrazine, by mass	8	UN2030	II	Prohibited		
Hydrazine perchlorate	Forbidden			Prohibited		
Hydrazine selenate	Forbidden			Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Hydriodic acid	8	UN1787	II, III	Only ORM-D	8A	8A
Hydriodic acid, anhydrous, see Hydrogen iodide, anhydrous						
Hydrobromic acid, with more than 49 percent hydrobromic acid	8	UN1788	II, III	Prohibited		
Hydrobromic acid, with not more than 49 percent hydrobromic acid	8	UN1788	II, III	Only ORM-D and per 348.2	8A	8A
Hydrobromic acid, anhydrous, see Hydrogen bromide, anhydrous						
Hydrocarbon gas mixture, compressed, n.o.s.	2.1	UN1964	n/a	Only ORM-D	Prohibited	2A
Hydrocarbon gas mixtures, liquefied, n.o.s.	2.1	UN1965	n/a	Only ORM-D	Prohibited	2A
Hydrocarbons, liquid, n.o.s.	3	UN3295	I, II, III	Only ORM-D	Prohibited	3A
Hydrochloric acid	8	UN1789	II, III	Only ORM-D and per 348.22	8A	8A
Hydrochloric acid, anhydrous, see Hydrogen chloride, anhydrous						
Hydrocyanic acid, anhydrous, see Hydrogen cyanide, etc.						
Hydrocyanic acid, aqueous solutions or Hydrogen cyanide, aqueous solutions with not more than 20 percent hydrogen cyanide	6.1	UN1613	I	Prohibited		
Hydrocyanic acid, aqueous solutions with less than 5 percent hydrogen cyanide	6.1	UN1613	II	Prohibited		
Hydrocyanic acid, liquefied, see Hydrogen cyanide, etc.						
Hydrocyanic acid (prussic) unstabilized	Forbidden			Prohibited		
Hydrofluoric acid and Sulfuric acid mixtures	8	UN1786	I	Prohibited		
Hydrofluoric acid, anhydrous, see Hydrogen fluoride, anhydrous						
Hydrofluoric acid, with more than 60 percent strength	8	UN1790	I	Prohibited		
Hydrofluoric acid, with not more than 60 percent strength	8	UN1790	II	Prohibited		
Hydrofluoroboric acid, see Fluoroboric acid						

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Hydorfluorosilicic acid, see Fluorosilicic acid						
Hydrogen and Methane mixtures, compressed	2.1	UN2034	n/a	Only ORM-D	Prohibited	2A
Hydrogen bromide, anhydrous	2.3	UN1048	n/a	Prohibited		
Hydrogen chloride, anhydrous	2.3	UN1050	n/a	Prohibited		
Hydrogen chloride, refrigerated liquid	2.3	UN2186	n/a	Prohibited		
Hydrogen, compressed	2.1	UN1049	n/a	Only ORM-D	Prohibited	2A
Hydrogen, cyanide, solution in alcohol with not more than 45 percent hydrogen cyanide	6.1	UN3294	I	Prohibited		
Hydrogen cyanide, stabilized with less than 3 percent water	6.1	UN1051	I	Prohibited		
Hydrogen cyanide, stabilized with less than 3 percent water and absorbed in a porous inert material	6.1	UN1614	I	Prohibited		
Hydrogen fluoride, anhydrous	8	UN1052	I	Prohibited		
Hydrogen iodide, anhydrous	2.3	UN2197	n/a	Prohibited		
Hydrogen iodide solution, see Hydriodic acid, solution						
Hydrogen peroxide and peroxyacetic acid mixtures, stabilized with acids, water, and not more than 5 percent peroxyacetic acid	5.1	UN3149	II	Prohibited		
Hydrogen peroxide, aqueous solutions with more than 40 percent but not more than 60 percent hydrogen peroxide (stabilized as necessary)	5.1	UN2014	II	Prohibited		
Hydrogen peroxide, aqueous solutions with not less than 20 percent but not more than 40 percent hydrogen peroxide (stabilized as necessary)	5.1	UN2014	II	Prohibited		
Hydrogen peroxide, aqueous solutions with not less than 8 percent but less than 20 percent hydrogen peroxide (stabilized as necessary)	5.1	UN2984	III	Only ORM-D	5A	5A
Hydrogen peroxide, stabilized or Hydrogen peroxide aqueous solutions, stabilized with more than 60 percent hydrogen peroxide	5.1	UN2015	ı	Prohibited		
Hydrogen, refrigerated liquid (cryogenic liquid)	2.1	UN1966	n/a	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Hydrogen selenide, anhydrous	2.3	UN2202	n/a	Prohibited		
Hydrogen sulfate, see Sulfuric acid, etc.						
Hydrogen sulfide	2.3	UN1053	n/a	Prohibited		
Hydrogendifluorides, n.o.s. solid	8	UN1740	П	Prohibited		
Hydrogendifluorides, n.o.s. solid	8	UN1740	Ш	Only ORM-D	8A	8A
Hydrogendifluorides, n.o.s. solutions	8	UN1740	II	Prohibited		
Hydrogendifluorides, n.o.s. solutions	8	UN1740	III	Only ORM-D		
Hydroquinone	6.1	UN2662	Ш	Only ORM-D	6A	6A
Hydrosilicofluoric acid, see Fluorosilicic acid						
Hydroxyl amine iodide	Forbidden			Prohibited		
Hydroxylamine sulfate	8	UN2865	Ш	Only ORM-D	8A	8A
Hypochlorite solutions	8	UN1791	II, III	Only ORM-D	8A	8A
Hypochlorites, inorganic, n.o.s.	5.1	UN3212	П	Only ORM-D	5A	5A
Hyponitrous acid	Forbidden			Prohibited		
Igniter fuse, metal clad, see Fuse, igniter tubular metal clad						
Igniters	1.1G	UN0121	II	Prohibited		
Igniters	1.2G	UN0314	II	Prohibited		
Igniters	1.3G	UN0315	П	Prohibited		
Igniters	1.4G	UN0325	П	Prohibited		
Igniters	1.4S	UN0454	П	Prohibited		
3,3'-Iminodipropylamine	8	UN2269	Ш	Only ORM-D	8A	8A
Infectious substances, affecting animals only	6.2	UN2900	n/a	Mailable only per 346 and DMM 601.10.17.4	6B	Prohibited
Infectious substances, affecting humans only	6.2	UN2814	n/a	Mailable only per 346 and DMM 601.10.17.4	6B	Prohibited
Inflammable, see Flammable						
Initiating explosives (dry)	Forbidden			Prohibited		
Inosital hexanitrate (dry)	Forbidden			Prohibited		
Insecticide gases, n.o.s.	2.2	UN1968	n/a	Only ORM-D	2B	2B
Insecticide gases flammable n.o.s.	2.1	NA1954	n/a	Only ORM-D	Prohibited	2A
Insecticide gases, flammable, n.o.s	2.1	UN3354	n/a	Only ORM-D	Prohibited	2A
Insecticide gases, toxic, n.o.s.	2.3	UN1967	n/a	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Insecticide gases, toxic, flammable, n.o.s., Inhalation hazard A, B, C or D	2.3	UN3355	n/a	Prohibited		
Inulin trinitrate (dry)	Forbidden			Prohibited		
lodine azide (dry)	Forbidden			Prohibited		
lodine monochloride	8	UN1792	II	Prohibited		
lodine pentafluoride	5.1	UN2495	I	Prohibited		
2-lodobutane	3	UN2390	II	Only ORM-D	Prohibited	3A
Iodomethylpropanes	3	UN2391	II	Only ORM-D	Prohibited	3A
Iodopropanes	3	UN2392	III	Only ORM-D	Prohibited	3A
lodoxy compounds (dry)	Forbidden			Prohibited		
Iridium nitratopentamine iridium nitrate	Forbidden			Prohibited		
Iron chloride, see Ferric chloride, etc.						
Iron oxide, spent, or Iron sponge, spent obtained from coal gas purification	4.2	UN1376	III	Prohibited		
Iron pentacarbonyl	6.1	UN1994	I	Prohibited		
Iron sesquichloride, see Ferric chloride, etc.						
Irritating material, see Tear gas substances, etc.						
Isobutane see also Petroleum gases, liquified	2.1	UN1969	n/a	Only ORM-D	Prohibited	2A
Isobutanol or Isobutyl alcohol	3	UN1212	III	Only ORM-D	Prohibited	3A
Isobutyl acetate	3	UN1213	II	Only ORM-D	Prohibited	3A
Isobutyl acrylate, inhibited	3	UN2527	Ш	Only ORM-D	Prohibited	3A
Isobutyl alcohol, see Isobutanol						
Isobutyl aldehyde, see Isobutyraldehyde						
Isobutyl chloroformate	6.1	NA2742	I	Prohibited		
Isobutyl formate	3	UN2393	II	Only ORM-D	Prohibited	3A
Isobutyl isobutyrate	3	UN2528	III	Only ORM-D	Prohibited	3A
Isobutyl isocyanate	3	UN2486	ı	Prohibited		
Isobutyl methacrylate, inhibited	3	UN2283	III	Only ORM-D	Prohibited	3A
Isobutyl propionate	3	UN2394	Ш	Only ORM-D	Prohibited	3A
Isobutylamine	3	UN1214	II	Prohibited		
Isobutylene see also Petroleum gases, liquefied	2.1	UN1055	n/a	Only ORM-D	Prohibited	2A
Isobutyraldehyde <i>or</i> Isobutyl aldehyde	3	UN2045	II	Only ORM-D	Prohibited	3A
Isobutyric acid	3	UN2529	III	Only ORM-D	Prohibited	3A
Isobutyric anhydride	3	UN2530	III	Only ORM-D	Prohibited	3A
Isobutyronitrile	3	UN2284	П	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Isobutyryl chloride	3	UN2395	II	Prohibited		
Isocyanates, flammable, toxic, n.o.s. <i>or</i> Isocyanate solutions, flammable, toxic, n.o.s. <i>flashpoint less than 23°C</i>	3	UN2478	II	Prohibited		
Isocyanates, toxic, flammable, n.o.s. or Isocyanate solutions, toxic, flammable, n.o.s. flashpoint not less than 23° C but not more than 61° C and boiling point less than 300° C	6.1	UN3080	II	Prohibited		
Isocyanates, toxic, n.o.s. <i>or</i> Isocyanate solutions, toxic, n.o.s. <i>flashpoint more than 61° C and boiling point less than 300° C</i>	6.1	UN2206	II	Prohibited		
Isocyanates, toxic, n.o.s. or Isocyanate solutions, toxic, n.o.s. flashpoint more than 61° C and boiling point less than 300° C	6.1	UN2206	III	Only ORM-D	6A	6A
Isocyanatobenzotrifluorides	6.1	UN2285	II	Prohibited		
Isoheptenes	3	UN2287	II	Only ORM-D	Prohibited	3A
Isohexenes	3	UN2288	П	Only ORM-D	Prohibited	3A
Isooctane, see Octanes						
Isooctenes	3	UN1216	II	Only ORM-D	Prohibited	3A
Isopentane, see Pentanes						
Isopentanoic acid, see Corrosive liquids, n.o.s.						
Isopentenes	3	UN2371	1	Only ORM-D	Prohibited	3A
Isophorone diisocyanate	6.1	UN2290	III	Only ORM-D	6A	6A
Isophoronediamine	8	UN2289	Ш	Only ORM-D	8A	8A
Isoprene, inhibited	3	UN1218	I	Only ORM-D	Prohibited	3A
Isopropanol or Isopropyl alcohol	3	UN1219	II	Only ORM-D	Prohibited	3A
Isopropenyl acetate	3	UN2403	II	Only ORM-D	Prohibited	3A
Isopropenylbenzene	3	UN2303	Ш	Only ORM-D	Prohibited	3A
Isopropyl acetate	3	UN1220	П	Only ORM-D	Prohibited	3A
Isopropyl acid phosphate	8	UN1793	Ш	Only ORM-D	8A	8A
Isopropyl alcohol, see Isopropanol						
Isopropyl butyrate	3	UN2405	Ш	Only ORM-D	Prohibited	3A
Isopropyl chloroacetate	3	UN2947	Ш	Only ORM-D	Prohibited	3A
Isopropyl chloroformate	6.1	UN2407	I	Prohibited		
Isopropyl 2-chloropropionate	3	UN2934	Ш	Only ORM-D	Prohibited	3A
Isopropyl isobutyrate	3	UN2406	П	Only ORM-D	Prohibited	3A
Isopropyl isocyanate	3	UN2483	I	Prohibited	Prohibited	3A

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Isopropyl mercaptan, see Propanethiols						
Isopropyl nitrate	3	UN1222	П	Only ORM-D	Prohibited	3A
Isopropyl phosphoric acid, see Isopropyl acid phosphate						
Isopropyl propionate	3	UN2409	II	Only ORM-D	Prohibited	3A
Isopropylamine	3	UN1221	I	Prohibited		
Isopropylbenzene	3	UN1918	Ш	Only ORM-D	Prohibited	3A
Isopropylcumyl hydroperoxide, with more than 72 percent in solution	Forbidden			Prohibited		
Isosorbide dinitrate mixture with not less than 60 percent lactose, mannose, starch or calcium hydrogen phosphate	4.1	UN2907	II	Prohibited		
Isosorbide-5-mononitrate	4.1	UN3251	Ш	Only ORM-D	Prohibited	3A
Isothiocyanic acid	Forbidden			Prohibited		
					_	•
Jet fuel, see Fuel, aviation, turbine engine						
Jet, perforating guns, charged oil well, with detonator	1.1D	NA0124	II	Prohibited		
Jet, perforating guns, charged oil well, with detonator	1.4D	NA0494	II	Prohibited		
Jet, perforating guns, charged oil well, without detonator	1.1D	UN0124	II	Prohibited		
Jet, perforating guns, charged oil well, without detonator	1.4D	UN0494	II	Prohibited		
Jet, perforators, see Charges, shaped, commercial etc.						
Jet tappers, without detonator, see Charges, shaped, commercial, etc.						
Jet thrust igniters, for rocket motors or Jato, see Igniters						
Jet thrust unit (Jato), see Rockets motors						
Kerosene	3	UN1223	Ш	Only ORM-D	Prohibited	3A
Ketones, liquid, n.o.s.	3	UN1224	1	Prohibited		
Ketones, liquid, n.o.s.	3	UN1224	II, III	Only ORM-D	Prohibited	3A

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Krypton, compressed	2.2	UN1056	n/a	Only ORM-D	2B	2B
Krypton, compressed Krypton, refrigerated liquid (cryogenic liquid)	2.2	UN1970	n/a	Prohibited	20	ZB
Lacquer base or lacquer chips, nitrocellulose, dry, see Nitrocellulose, etc. (UN2557)						
Lacquer base or lacquer chips, plastic, wet with alcohol or solvent, see Nitrocellulose (UN2059, UN2555, UN2556) or Paint etc. (UN1263)						
Lead acetate	6.1	UN1616	Ш	Only ORM-D	6A	6A
Lead arsenates	6.1	UN1617	П	Prohibited		
Lead arsenites	6.1	UN1618	II	Prohibited		
Lead azide (dry)	Forbidden			Prohibited		
Lead azide, wetted with not less than 20 percent water or mixture of alcohol and water, by mass	1.1A	UN0129	II	Prohibited		
Lead compounds, soluble, n.o.s.	6.1	UN2291	III	Only ORM-D	6A	6A
Lead cyanide	6.1	UN1620	П	Prohibited		
Lead dioxide	5.1	UN1872	Ш	Only ORM-D	5A	5A
Lead dross, see Lead sulfate with more than 3 percent free acid						
Lead mononitroresorcinate	1.1A	NA0473	II	Prohibited		
Lead nitrate	5.1	UN1469	II	Prohibited		
Lead nitroresorcinate (dry)	Forbidden			Prohibited		
Lead perchlorate, solid	5.1	UN1470	П	Prohibited		
Lead perchlorate, solution	5.1	UN1470	П	Prohibited		
Lead peroxide, see Lead dioxide						
Lead phosphite, dibasic	4.1	UN2989	П	Prohibited		
Lead phosphite, dibasic	4.1	UN2989	Ш	Only ORM-D	Prohibited	4A
Lead picrate (dry)	Forbidden			Prohibited		
Lead styphnate (dry)	Forbidden			Prohibited		
Lead styphnate, wetted or Lead trinitroresorcinate, wetted with not less than 20 percent water or mixture of alcohol and water, by mass	1.1A	UN0130	II	Prohibited		
Lead sulfate with more than 3 percent free acid	8	UN1794	II	Only ORM-D and per 348.2	8A	8A
Lead trinitroresorcinate, see Lead styphnate, etc.						

Hazardous Materials Descriptions and Proper Shipping Names (a) Life-saving appliances, not self-inflating containing	Hazard Class (b)	ID Number (c) UN3072	DOT PG (d)	USPS Mailability (e) Prohibited	Domestic Mail Air (f)	Domestic Mail Surface (g)
dangerous goods as equipment Life-saving appliances, self-inflating	9	UN2990	n/a	Prohibited		
Lighter replacement cartridges containing liquefied petroleum gases (and similar devices, each not exceeding 65 grams), see Lighters or Lighter refills etc. containing flammable gas						
Lighters or Lighter refills cigarettes, containing flammable gas	2.1	UN1057	n/a	Mailable only with PCSC approval per 343.25 and DMM 601.10.13.4	Prohibited	3C
Lighters for cigars, cigarettes, etc., with lighter fluids	3	NA1226	II	Mailable only with PCSC approval per 343.25 and DMM 601.10.13.4	Prohibited	3C
Lighters, fuse	1.4S	UN0131	II	Prohibited		
Lime, unslaked, see Calcium oxide						
Liquefied gas, flammable, n.o.s.	2.1	UN3161	n/a	Only ORM-D	Prohibited	2A
Liquefied gas, n.o.s.	2.2	UN3163	n/a	Only ORM-D	2B	2B
Liquefied gas, oxidizing, n.o.s.	2.2	UN3157	n/a	Only ORM-D	2B	2B
Liquefied gas, toxic, corrosive, n.o.s. <i>Inhalation Hazard Zone A,</i> <i>B, C, or D</i>	2.3	UN3308	n/a	Prohibited		
Liquefied gas, toxic, flammable, corrosive, n.o.s. <i>Inhalation Hazard Zone A, B, C, or D</i>	2.3	UN3309	n/a	Prohibited		
Liquefied gas, toxic, flammable, n.o.s. <i>Inhalation Hazard Zone A, B, C, or D</i>	2.3	UN3160	n/a	Prohibited		
Liquefied gas, toxic, n.o.s. Inhalation Hazard Zone A, B, C, or D	2.3	UN3162	n/a	Prohibited		
Liquefied gas, toxic, oxidizing, corrosive, n.o.s. <i>Inhalation Hazard Zone A, B, C, or D</i>	2.3	UN3310	n/a	Prohibited		
Liquefied gas, toxic, oxidizing, n.o.s. <i>Inhalation Hazard Zone A, B, C, or D</i>	2.3	UN3307	n/a	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Liquified gases, nonflammable charged with nitrogen, carbon dioxide, or air	2.2	UN1058	n/a	Only ORM-D	2B	2B
Liquefied hydrocarbon gas, see Hydrocarbon gas mixtures, liquefied, n.o.s., etc.						
Liquefied natural gas, see Methane, etc. (UN1972)						
Liquified petroleum gas, see Petroleum gases, liquefied						
Lithium	4.3	UN1415	I	Prohibited	Prohibited	4A
Lithium acetylide ethylenediamine complex, see Water-reactive solid etc.						
Lithium alkyls	4.2	UN2445	T	Prohibited		
Lithium aluminum hydride	4.3	UN1410	I	Prohibited		
Lithium aluminum hydride, ethereal	4.3	UN1411	I	Prohibited		
Lithium borohydride	4.3	UN1413	I	Prohibited		
Lithium ferrosilicon	4.3	UN2830	II	Only ORM-D	Prohibited	4A
Lithium hydride	4.3	UN1414	I	Prohibited	Prohibited	4A
Lithium hydride, fused solid	4.3	UN2805	II	Only ORM-D	Prohibited	4A
Lithium hydroxide, monohydrate or Lithium hydroxide, solid	8	UN2680	II	Only ORM-D	8A	8A
Lithium hydroxide, solution	8	UN2679	II, III	Only ORM-D	8A	8A
Lithium hypochlorite, dry or Lithium hypochlorite mixtures, dry	5.1	UN1471	II	Only ORM-D	5A	5A
Lithium in cartridges, see Lithium						
Lithium-ion batteries	9	UN3480	II	Only as permitted in 349.22	9D	9D
Lithium-ion batteries contained in equipment	9	UN3481	II	Only as permitted in 349.22 and 622.5	9D	9D
Lithium-ion batteries packed with equipment	9	UN3481	II	Only as permitted in 349.22	9D	9D
Lithium metal batteries	9	UN3090	II	Only as permitted in 348.22b and 349.22	9D	9D
Lithium metal batteries contained in equipment	9	UN3091	II	Only as permitted in 349.22 and 622.5	9D	9D

Hazardous Materials Descriptions and Proper Shipping Names	Hazard Class	ID Number	DOT PG	USPS Mailability	Domestic Mail Air	Domestic Mail Surface
(a)	(b)	(c)	(d)	(e)	(f)	(g)
Lithium metal batteries packed with equipment	9	UN3091	II	Only as permitted in 349.22	9D	9D
Lithium nitrate	5.1	UN2722	III	Only ORM-D	5A	5A
Lithium nitride	4.3	UN2806	I	Prohibited	Prohibited	4A
Lithium peroxide	5.1	UN1472	II	Only ORM-D	5A	5A
Lithium silicon	4.3	UN1417	II	Only ORM-D	Prohibited	5A
LNG, see Methane etc. (UN1972)						
London purple	6.1	UN1621	II	Prohibited	6A	6A
LPG, see Petroleum gases, liquefied						
Lye, see Sodium hydroxide solution						
Magnesium or Magnesium alloys with more than 50 percent magnesium in pellets, turnings, or ribbons	4.1	UN1869	III	Only ORM-D	Prohibited	4A
Magnesium alkyls	4.2	UN3053	I	Prohibited		
Magnesium aluminum phosphide	4.3	UN1419	I	Prohibited		
Magnesium arsenate	6.1	UN1622	П	Prohibited		
Magnesium bisulfite solution, see Bisulfites, aqueous solutions, n.o.s.						
Magnesium bromate	5.1	UN1473	П	Only ORM-D	5A	5A
Magnesium chlorate	5.1	UN2723	II	Only ORM-D	5A	5A
Magnesium diamide	4.2	UN2004	II	Prohibited		
Magnesium diphenyl	4.2	UN2005	I	Prohibited		
Magnesium dross, wet or hot	Forbidden			Prohibited		
Magnesium fluorosilicate	6.1	UN2853	Ш	Only ORM-D	6A	6A
Magnesium granules, coated particle size not less than 149 microns	4.3	UN2950	III	Prohibited		
Magnesium hydride	4.3	UN2010	I	Prohibited		†
Magnesium nitrate	5.1	UN1474	Ш	Only ORM-D	5A	5A
Magnesium perchlorate	5.1	UN1475	Ш	Only ORM-D	5A	5A
Magnesium peroxide	5.1	UN1476	П	Only ORM-D	5A	5A
Magnesium phosphide	4.3	UN2011	I	Prohibited		
Magnesium, powder <i>or</i> Magnesium alloys, powder	4.3	UN1418	I	Prohibited		
Magnesium, powder <i>or</i> Magnesium alloys, powder	4.3	UN1418	II, III	Prohibited		
Magnesium scrap, see Magnesium etc. (UN1869)						

Hazardous Materials Descriptions and Proper Shipping Names	Hazard Class	ID Number	DOT PG	USPS Mailability	Domestic Mail Air	Domestic Mail Surface
(a)	(b)	(c)	(d)	(e)	(f)	(g)
Magnesium silicide	4.3	UN2624	II	Prohibited		
Magnetized material, see 49 CFR 173.21	n/a	n/a	n/a	Mailable only per 349.24	9B	9B
Maleic acid	8	NA2215	Ш	Only ORM-D	8A	8A
Maleic anhydride	8	UN2215	III	Only ORM-D	8A	8A
Malononitrile	6.1	UN2647	П	Prohibited		
Mancozeb (manganese ethylenebisdithiocarbamate complex with zinc) see Maneb etc.						
Maneb or Maneb preparations with not less than 60 percent maneb	4.2	UN2210	III	Prohibited		
Maneb stabilized <i>or</i> Maneb preparations, stabilized <i>against</i> self-heating	4.3	UN2968	III	Prohibited		
Manganese nitrate	5.1	UN2724	Ш	Only ORM-D	5A	5A
Manganese resinate	4.1	UN1330	Ш	Only ORM-D	Prohibited	4A
Mannitan tetranitrate	Forbidden			Prohibited		
Mannitol hexanitrate (dry)	Forbidden			Prohibited		
Mannitol hexanitrate, wetted or Nitromannite, wetted with not less than 40 percent water, or mixture of alcohol and water, by mass	1.1D	UN0133	l II	Prohibited		
Marine pollutants, liquid or solid, n.o.s., see Environmentally hazardous substances, liquid or solid, n.o.s.						
Matches, block, see Matches, strike anywhere						
Matches, fusee	4.1	UN2224	III	Prohibited		
Matches, safety (book, card, or strike on box)	4.1	UN1944	III	Mailable per 344.22 and DMM 601.10.14.3	Prohibited	4B
Matches, strike anywhere	4.1	UN1331	Ш	Prohibited		
Matches, wax, Vesta	4.1	UN1945	Ш	Prohibited		
Matting acid, see Sulfuric acid etc.						
Medicine, liquid, flammable, toxic, n.o.s.	3	UN3248	II	Prohibited		
Medicine, liquid, flammable, toxic, n.o.s.	3	UN3248	III	Only ORM-D	Prohibited	3A
Medicine, liquid, toxic, n.o.s.	6.1	UN1851	II, III	Only ORM-D	6A	6A
Medicine, solid, toxic, n.o.s.	6.1	UN3249	II, III	Only ORM-D	6A	6A

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Medicines, corrosive, liquid, n.o.s.	8	NA1760	II, III	Only ORM-D	8A	8A
Medicines, corrosive, solid, n.o.s.	8	NA1759	II, III	Only ORM-D	8A	8A
Medicines, flammable, liquid, n.o.s.	3	NA1993	1, 11, 111	Only ORM-D	Prohibited	3A
Medicines, flammable, solid, n.o.s.	4.1	NA1325	II	Only ORM-D	Prohibited	4A
Medicines, oxidizing substance, solid, n.o.s.	5.1	NA1479	II	Only ORM-D	5A	5A
Memtetrahydrophthalic anhydride, see Corrosive liquids, n.o.s.						
Mercaptans, liquid, flammable, n.o.s. <i>or</i> Mercaptan mixture, liquid, flammable, n.o.s.	3	UN3336	1, 11, 111	Only ORM-D	Prohibited	3A
Mercaptans, liquid, flammable, toxic, n.o.s. <i>or</i> Mercaptan mixtures, liquid, flammable, toxic, n.o.s.	3	UN1228	II	Prohibited		
Mercaptans, liquid, flammable, toxic, n.o.s. <i>or</i> Mercaptan mixtures, liquid, flammable, toxic, n.o.s.	3	UN1228	III	Only ORM-D	Prohibited	3A
Mercaptans, liquid, toxic, flammable, n.o.s. <i>or</i> Mercaptan mixtures, liquid, toxic, flammable, n.o.s., <i>flashpoint not less than 23</i> ° C	6.1	UN3071	II	Prohibited		
5-Mercaptotetrazol-1-acetic acid	1.4C	UN0448	II	Prohibited		
Mercuric arsenate	6.1	UN1623	II	Prohibited		
Mercuric chloride	6.1	UN1624	II	Prohibited		
Mercuric compounds, see Mercury compounds, etc.						
Mercuric nitrate	6.1	UN1625	II	Prohibited		
Mercuric potassium cyanide	6.1	UN1626	I	Prohibited		
Mercuric sulfocyanate, see Mercury thiocyanate						
Mercurol, see Mercury nucleate						
Mercurous azide	Forbidden			Prohibited		
Mercurous compounds, see Mercury compounds, etc.						
Mercurous nitrate	6.1	UN1627	II	Prohibited		
Mercury	8	UN2809	III	Prohibited		
Mercury contained in manufactured articles	8	UN2809	III	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Mercury acetate	6.1	UN1629	II	Prohibited	(1)	(9)
Mercury acetylide	Forbidden	0111023	''	Prohibited		
Mercury ammonium chloride	6.1	UN1630	l II	Prohibited		
Mercury based pesticides, liquid, flammable, toxic, flashpoint less than 23° C	3	UN2778	I, II	Prohibited		
Mercury based pesticides, liquid, toxic	6.1	UN3012	I, II	Prohibited		
Mercury based pesticides, liquid, toxic	6.1	UN3012	III	Only ORM-D	6A	6A
Mercury based pesticides, liquid, toxic, flammable, flashpoint not less than 23° C	6.1	UN3011	I, II	Prohibited		
Mercury based pesticides, liquid, toxic, flammable, flashpoint not less than 23° C	6.1	UN3011	III	Only ORM-D	6A	6A
Mercury based pesticides, solid, toxic	6.1	UN2777	I, II	Prohibited		
Mercury based pesticides, solid, toxic	6.1	UN2777	III	Only ORM-D	6A	6A
Mercury benzoate	6.1	UN1631	II	Prohibited		
Mercury bromides	6.1	UN1634	II	Prohibited		
Mercury compounds, liquid, n.o.s.	6.1	UN2024	I, II	Prohibited		
Mercury compounds, liquid, n.o.s.	6.1	UN2024	III	Only ORM-D	6A	6A
Mercury compounds, solid, n.o.s.	6.1	UN2025	I, II	Prohibited		
Mercury compounds, solid, n.o.s.	6.1	UN2025	III	Only ORM-D	6A	6A
Mercury cyanide	6.1	UN1636	II	Prohibited		
Mercury fulminate, wetted with not less than 20 percent water, or mixture of alcohol and water, by mass	1.1A	UN0135	II	Prohibited		
Mercury gluconate	6.1	UN1637	II	Prohibited		
Mercury iodide aquabasic ammonobasic (lodide of Millon's base)	Forbidden			Prohibited		
Mercury iodide, solution	6.1	UN1638	П	Prohibited		
Mercury iodide, solid	6.1	UN1638	II	Prohibited		
Mercury nitride	Forbidden			Prohibited		
Mercury nucleate	6.1	UN1639	II	Prohibited		
Mercury oleate	6.1	UN1640	II	Prohibited		
Mercury oxide	6.1	UN1641	П	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Mercury oxycyanide, desensitized	6.1	UN1642	II	Prohibited		100
Mercury oxycyanide	Forbidden			Prohibited		
Mercury potassium iodide	6.1	UN1643	II	Prohibited		
Mercury salicylate	6.1	UN1644	Ш	Prohibited		
Mercury sulfates	6.1	UN1645	II	Prohibited		
Mercury thiocyanate	6.1	UN1646	Ш	Prohibited		
Mesityl oxide	3	UN1229	Ш	Prohibited		
Metal alkyl halides, water-reactive, n.o.s. or Metal aryl halides, water-reactive, n.o.s.	4.2	UN3049	I	Prohibited		
Metal alkyl hydrides, water-reactive, n.o.s. or Metal aryl hydrides, water-reactive, n.o.s.	4.2	UN3050	I	Prohibited		
Metal alkyl, solution, n.o.s.	3	NA9195	II	Only ORM-D	Prohibited	3A
Metal alkyls, water-reactive, n.o.s. <i>or</i> Metal aryls, water-reactive, n.o.s.	4.2	UN2003	I	Prohibited		
Metal carbonyls, n.o.s.	6.1	UN3281	I, II	Prohibited		
Metal carbonyls, n.o.s.	6.1	UN3281	Ш	Only ORM-D	6A	6A
Metal catalyst, dry	4.2	UN2881	I, II	Prohibited		
Metal catalyst, dry	4.2	UN2881	Ш	Only ORM-D	Prohibited	4A
Metal catalyst, wetted with a visible excess of liquid	4.2	UN1378	II	Prohibited		
Metal hydrides, flammable, n.o.s.	4.1	UN3182	II, III	Only ORM-D	Prohibited	3A
Metal hydrides, water-reactive, n.o.s.	4.3	UN1409	I	Prohibited		
Metal hydrides, water-reactive, n.o.s.	4.3	UN1409	II	Prohibited		
Metal powder, self-heating, n.o.s.	4.2	UN3189	II, III	Prohibited		
Metal powders, flammable, n.o.s.	4.1	UN3089	II, III	Only ORM-D	Prohibited	4A
Metal salts of methyl nitramine (dry)	Forbidden			Prohibited		
Metal salts of organic compounds, flammable, n.o.s.	4.1	UN3181	II, III	Only ORM-D	Prohibited	4A
Metaldehyde	4.1	UN1332	Ш	Only ORM-D	Prohibited	4A
Metallic substances, water-reactive, n.o.s.	4.3	UN3208	I	Prohibited		
Metallic substances, water-reactive, n.o.s.	4.3	UN3208	II, III	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names	Hazard Class	ID Number	DOT PG	USPS Mailability	Domestic Mail Air	Domestic Mail Surface
(a)	(b)	(c)	(d)	(e)	(f)	(g)
Metallic substance, water-reactive, self-heating, n.o.s.	4.3	UN3209	1, 11, 111	Prohibited		
Methacrylaldehyde, inhibited	3	UN2396	II	Prohibited		
Methacrylic acid, inhibited	8	UN2531	III	Only ORM-D	8A	8A
Methacrylonitrile, inhibited	3	UN3079	1	Prohibited		
Methallyl alcohol	3	UN2614	III	Only ORM-D	Prohibited	3A
Methane and hydrogen, mixtures, see Hydrogen and methane, mixtures etc.						
Methane, compressed or Natural gas, compressed (with high methane content)	2.1	UN1971	n/a	Only ORM-D	Prohibited	2A
Methane, refrigerated liquid (cryogenic liquid) or Natural gas, refrigerated liquid (cryogenic liquid), with high methane content	2.1	UN1972	n/a	Prohibited	Prohibited	2A
Methanesulfonyl chloride	6.1	UN3246	I	Prohibited		
Methanol	3	UN1230	II	Only ORM-D	Prohibited	3A
Methazoic acid	Forbidden			Prohibited		
4-Methoxy-4-methylpentan-2-o ne	3	UN2293	III	Only ORM-D	Prohibited	3A
1-Methoxy-2-propanol	3	UN3092	III	Only ORM-D	Prohibited	3A
Methoxymethyl isocyanate	3	UN2605	I	Prohibited		
Methyl 2-chloropropionate	3	UN2933	III	Only ORM-D	Prohibited	3A
Methyl acetate	3	UN1231	II	Only ORM-D	Prohibited	3A
Methyl acetylene and propadiene mixtures, stabilized	2.1	UN1060	n/a	Only ORM-D	Prohibited	2A
Methyl acrylate, inhibited	3	UN1919	II	Only ORM-D	Prohibited	3A
Methyl alcohol, see Methanol						
Methyl allyl chloride	3	UN2554	II	Only ORM-D	Prohibited	3A
Methyl amyl ketone, see Amyl methyl ketone						
Methyl bromide	2.3	UN1062	n/a	Prohibited		
Methyl bromide and chloropicrin mixtures with more than 2 percent chloropicrin, see Chloropicrin and methyl bromide mixtures						
Methyl bromide and chloropicrin mixtures with not more than 2 percent chloropicrin, see Methyl bromide						
Methyl bromide and ethylene dibromide mixtures, liquid	6.1	UN1647	I	Prohibited		
Methyl bromoacetate	6.1	UN2643	II	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
2-Methyl-1-butene	3	UN2459	I	Prohibited		
2-Methyl-2-butene	3	UN2460	П	Prohibited		
3-Methyl-1-butene	3	UN2561	I	Prohibited		
Methyl tert-butyl ether	3	UN2398	П	Only ORM-D	Prohibited	3A
Methyl butyrate	3	UN1237	П	Only ORM-D	Prohibited	3A
Methyl chloride, <i>or</i> Refrigerant gas R 40	2.1	UN1063		Only ORM-D	Prohibited	2A
Methyl chloride and chloropicrin mixtures, see Chloropicrin and methyl chloride mixtures						
Methyl chloride and methylene chloride mixtures	2.1	UN1912	n/a	Only ORM-D	Prohibited	2A
Methyl chloroacetate	6.1	UN2295	I	Prohibited		
Methyl chlorocarbonate, see Methyl chloroformate						
Methyl chloroform, see 1,1,1-Trichloroethane						
Methyl chloroformate	6.1	UN1238	ı	Prohibited		
Methyl chloromethyl ether	6.1	UN1239	I	Prohibited		
Methyl dichloroacetate	6.1	UN2299	III	Only ORM-D	6A	6A
Methyl ethyl ether, see Ethyl methyl ether						
Methyl ethyl ketone peroxide, in solution with more than 9 percent by mass active oxygen	Forbidden			Prohibited		
2-Methyl-5-ethylpyridine	6.1	UN2300	Ш	Only ORM-D	6A	6A
Methyl ethyl ketone, see Ethyl methyl ketone						
Methyl fluoride, <i>or</i> Refrigerant gas R 41	2.1	UN2454	n/a	Only ORM-D	Prohibited	2A
Methyl formate	3	UN1243	1	Only ORM-D	Prohibited	3A
2-Methyl-2-heptanethiol	6.1	UN3023	1	Prohibited		
Methyl iodide	6.1	UN2644	1	Prohibited		
Methyl isobutyl carbinol	3	UN2053	III	Only ORM-D	Prohibited	3A
Methyl isobutyl ketone	3	UN1245	Ш	Only ORM-D	Prohibited	3A
Methyl isobutyl ketone peroxide, in solution with more than 9 percent by mass active oxygen	Forbidden			Prohibited		
Methyl isocyanate	6.1	UN2480	I	Prohibited		
Methyl isopropenyl ketone, inhibited	3	UN1246	II	Only ORM-D	Prohibited	3A
Methyl isothiocyanate	6.1	UN2477	1	Prohibited		1
Methyl isovalerate	3	UN2400	П	Only ORM-D	Prohibited	3A
Methyl magnesium bromide, in ethyl ether	4.3	UN1928	I	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Methyl mercaptan	2.3	UN1064	n/a	Prohibited		
Methyl mercaptopropionaldehyde, see Thia-4-pentanal						
Methyl methacrylate monomer, inhibited	3	UN1247	II	Only ORM-D	Prohibited	3A
Methyl nitramine (dry)	Forbidden			Prohibited		
Methyl nitrate	Forbidden			Prohibited		
Methyl nitrite	Forbidden			Prohibited		
Methyl norbornene dicarboxylic anhydride, see Corrosive liquids, n.o.s.						
Methyl orthosilicate	6.1	UN2606	I	Prohibited		
Methyl parathion liquid	6.1	NA3018	П	Prohibited		
Methyl parathion solid	6.1	NA2783	II	Prohibited		
Methyl phosphonic dichloride	6.1	NA9206	I	Prohibited		
Methyl phosphonothioic dichloride, anhydrous, see Corrosive liquids, n.o.s.						
Methyl phosphonous dichloride, pyrophoric liquid	6.1	NA2845	I	Prohibited		
Methyl picric acid (heavy metal salts of)	Forbidden			Prohibited		
Methyl propionate	3	UN1248	II	Only ORM-D	Prohibited	3A
Methyl propyl ether	3	UN2612	II	Only ORM-D	Prohibited	3A
Methyl propyl ketone	3	UN1249	II	Only ORM-D	Prohibited	3A
Methyl sulfate, see Dimethyl sulfate						
Methyl sulfide, see Dimethyl sulfide						
Methyl trichloroacetate	6.1	UN2533	III	Only ORM-D	6A	6A
Methyl trimethylol methane trinitrate	Forbidden			Prohibited		
Methyl vinyl ketone, stabilized	6.1	UN1251	I	Prohibited		
Methyl vinyl ketone, stabilized	3	UN1251	II	Prohibited		
Methylal	3	UN1234	П	Prohibited		
Methylamine, anhydrous	2.1	UN1061	n/a	Only ORM-D	Prohibited	2A
Methylamine, aqueous solution	3	UN1235	П	Only ORM-D	Prohibited	3A
Methylamine dinitramine and dry salts thereof	Forbidden			Prohibited		
Methylamine nitroform	Forbidden			Prohibited		
Methylamine perchlorate (dry)	Forbidden			Prohibited		
Methylamyl acetate	3	UN1233	Ш	Only ORM-D	Prohibited	3A
N-Methylaniline	6.1	UN2294	Ш	Only ORM-D	6A	6A
alpha-Methylbenzyl alcohol	6.1	UN2937	Ш	Only ORM-D	6A	6A

Hazardous Materials Descriptions and Proper Shipping Names	Hazard Class	ID Number	DOT PG	USPS Mailability	Domestic Mail Air	Domestic Mail Surface
(a)	(b)	(c)	(d)	(e)	(f)	(g)
3-Methylbutan-2-one	3	UN2397	II	Only ORM-D	Prohibited	3A
N-Methylbutylamine	3	UN2945	П	Prohibited		
Methylchlorosilane	2.3	UN2534	n/a	Prohibited		
Methylcyclohexane	3	UN2296	II	Only ORM-D	Prohibited	3A
Methylcyclohexanols, flammable	3	UN2617	III	Only ORM-D	Prohibited	3A
Methylcyclohexanone	3	UN2297	III	Only ORM-D	Prohibited	3A
Methylcyclopentane	3	UN2298	II	Only ORM-D	Prohibited	3A
Methyldichloroarsine	6.1	NA1556	I	Prohibited		
Methyldichlorosilane	4.3	UN1242	I	Prohibited		
Methylene chloride, see Dichloromethane						
Methylene glycol dinitrate	Forbidden			Prohibited		
2-Methylfuran	3	UN2301	П	Only ORM-D	Prohibited	3A
a-Methylglucoside tetranitrate	Forbidden			Prohibited		
a-Methylglycerol trinitrate	Forbidden			Prohibited		
5-Methylhexan-2-one	3	UN2302	Ш	Only ORM-D	Prohibited	3A
Methylhydrazine	6.1	UN1244	I	Prohibited		
4-Methylmorpholine <i>or</i> n-methylmorpholine	3	UN2535	II	Prohibited		
Methylpentadienes	3	UN2461	П	Only ORM-D	Prohibited	3A
2-Methylpentan-2-ol	3	UN2560	Ш	Only ORM-D	Prohibited	3A
Methylpentanes, see Hexanes						
Methylphenyldichlorosilane	8	UN2437	П	Only ORM-D	8A	8A
1-Methylpiperidine	3	UN2399	П	Prohibited		
Methyltetrahydrofuran	3	UN2536	П	Only ORM-D	Prohibited	3A
Methyltrichlorosilane	3	UN1250	I	Prohibited		
alpha-Methylvaleraldehyde	3	UN2367	П	Only ORM-D	Prohibited	3A
Mine rescue equipment containing carbon dioxide, see Carbon dioxide						
Mines with bursting charge	1.1D	UN0137	П	Prohibited		
Mines with bursting charge	1.1F	UN0136	П	Prohibited		
Mines with bursting charge	1.2D	UN0138	П	Prohibited		
Mines with bursting charge	1.2F	UN0294	П	Prohibited		
Mixed acid, see Nitrating acid, mixtures etc.						
Mobility aids, see Wheel chair, electric						
Model rocket motor	1.4C	NA0276	П	Prohibited		
Model rocket motor	1.4S	NA0323	II	Mailable only with approval per 341.22 and DMM 601.10.11.2	Prohibited	1A

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Molybdenum pentachloride	8	UN2508	III	Only ORM-D	8A	8A
Monochloroacetone (unstabilized)	Forbidden			Prohibited		
Monochloroethylene, see Vinyl chloride, inhibited						
Monoethanolamine, see Ethanolamine solutions						
Monoethylamine, see Ethylamine						
Morpholine	3	UN2054	Ш	Only ORM-D	Prohibited	3A
Morpholine, aqueous, mixture, see Corrosive liquids, n.o.s.						
Motor fuel anti-knock compounds, see Motor fuel anti-knock mixtures						
Motor fuel anti-knock mixtures	6.1	UN1649	I	Prohibited		
Motor spirit, see Gasoline						
Muriatic acid, see Hydrochloric acid solution						
Musk xylene, see 5-tert-Butyl-2,4,6-trinitro-m-xyle ne						
		l			l	l
Naphtha see Petroleum distallates n.o.s.						
Naphthalene, crude <i>or</i> Naphthalene, refined	4.1	UN1334	III	Only ORM-D	Prohibited	4A
Naphthalene diozonide	Forbidden			Prohibited		
Naphthalene, molten	4.1	UN2304	III	Only ORM-D	Prohibited	4A
alpha-Naphthylamine	6.1	UN2077	Ш	Only ORM-D	6A	6A
beta-Naphthylamine	6.1	UN1650	II	Prohibited		
Naphthylamineperchlorate	Forbidden			Prohibited		
Naphthylthiourea	6.1	UN1651	II	Prohibited		
Naphthylurea	6.1	UN1652	П	Prohibited		
Natural gases (with high methane content), see Methane, etc. (UN1971, UN1972)						
Neohexane, see Hexanes						
Neon, compressed	2.2	UN1065	n/a	Only ORM-D	2B	2B
Neon, refrigerated liquid (cryogenic liquid)	2.2	UN1913	n/a	Prohibited		
New explosive or explosive device, see 49 CFR 173.51 and 173.56				Prohibited		
Nickel carbonyl	6.1	UN1259	I	Prohibited		
Nickel cyanide	6.1	UN1653	II	Prohibited		1

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Nickel nitrate	5.1	UN2725	Ш	Only ORM-D	5A	5A
Nickel nitrite	5.1	UN2726	Ш	Only ORM-D	5A	5A
Nickel picrate	Forbidden			Prohibited		
Nicotine	6.1	UN1654	П	Prohibited		
Nicotine compounds, liquid, n.o.s. <i>or</i> Nicotine preparations, liquid, n.o.s.	6.1	UN3144	I, II	Prohibited		
Nicotine compounds, liquid, n.o.s. <i>or</i> Nicotine preparations, liquid, n.o.s.	6.1	UN3144	III	Only ORM-D	6A	6A
Nicotine compounds, solid, n.o.s. <i>or</i> Nicotine preparations, solid, n.o.s.	6.1	UN1655	I, II	Prohibited		
Nicotine compounds, solid, n.o.s. <i>or</i> Nicotine preparations, solid, n.o.s.	6.1	UN1655	III	Only ORM-D	6A	6A
Nicotine hydrochloride <i>or</i> Nicotine hydrochloride solution	6.1	UN1656	II	Prohibited		
Nicotine salicylate	6.1	UN1657	П	Prohibited		
Nicotine sulfate, solid	6.1	UN1658	П	Prohibited		
Nicotine sulfate, solution	6.1	UN1658	П	Prohibited		
Nicotine tartrate	6.1	UN1659	П	Prohibited		
Nitrated paper (unstable)	Forbidden			Prohibited		
Nitrates of diazonium compounds	Forbidden			Prohibited		
Nitrates, inorganic, aqueous solution, n.o.s.	5.1	UN3218	II, III	Only ORM-D	5A	5A
Nitrates, inorganic, n.o.s.	5.1	UN1477	II, III	Only ORM-D	5A	5A
Nitrating acid mixtures, with more than 50 percent nitric acid	8	UN1796	I	Prohibited		
Nitrating acid mixtures, with not more than 50 percent nitric acid	8	UN1796	II	Prohibited		
Nitrating acid mixtures, spent with more than 50 percent nitric acid	8	UN1826	I	Prohibited		
Nitrating acid mixtures, spent with not more than 50 percent nitric acid	8	UN1826	II	Prohibited		
Nitric acid other than red fuming, with more than 70 percent nitric acid	8	UN2031	I	Prohibited		
Nitric acid other than red fuming, with not more than 70 percent nitric acid	8	UN2031	II	Prohibited		
Nitric acid, red fuming	8	UN2032	I	Prohibited		
Nitric oxide, compressed	2.3	UN1660	n/a	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Nitric oxide and dinitrogen tetroxide mixtures <i>or</i> Nitric oxide and nitrogen dioxide mixtures	2.3	UN1975	n/a	Prohibited		
Nitriles, flammable, toxic, n.o.s.	3	UN3273	I, II	Prohibited		
Nitriles, toxic, flammable, n.o.s.	6.1	UN3275	I, II	Prohibited		
Nitriles, toxic, n.o.s.	6.1	UN3276	I, II	Prohibited		
Nitriles, toxic, n.o.s.	6.1	UN3276	III	Only ORM-D	6A	6A
Nitrites, inorganic, aqueous solution, n.o.s.	5.1	UN3219	II, III	Only ORM-D	5A	5A
Nitrites, inorganic, n.o.s.	5.1	UN2627	II	Only ORM-D	5A	5A
3-Nitro-4-chlorobenzotrifluoride	6.1	UN2307	П	Prohibited		
Nitro isobutane triol trinitrate	Forbidden			Prohibited		
Nitro urea	1.1D	UN0147	П	Prohibited		
2-Nitro-2-methylpropanol nitrate	Forbidden			Prohibited		
6-Nitro-4-diazotoluene-3-sulfoni c acid (dry)	Forbidden			Prohibited		
N-Nitro-N-methylglycolamide nitrate	Forbidden			Prohibited		
N-Nitroaniline	Forbidden			Prohibited		
Nitroanilines (o-; m-; p-;)	6.1	UN1661	П	Prohibited		
Nitroanisole	6.1	UN2730	Ш	Only ORM-D	6A	6A
Nitrobenzene	6.1	UN1662	II	Prohibited		
m-Nitrobenzene diazonium perchlorate	Forbidden			Prohibited		
Nitrobenzenesulfonic acid	8	UN2305	II	Only ORM-D	8A	8A
Nitrobenzol, see Nitrobenzene						
5-Nitrobenzotriazol	1.1D	UN0385	П	Prohibited		
Nitrobenzotrifluorides	6.1	UN2306	П	Prohibited		
Nitrobromobenzenes liquid	6.1	UN2732	Ш	Only ORM-D	6A	6A
Nitrobromobenzenes solid	6.1	UN2732	Ш	Only ORM-D	6A	6A
Nitrocellulose, with not more than 12.6 percent nitrogen, by dry mass, or Nitrocellulose mixture with pigment or Nitrocellulose mixture with plasticizer or Nitrocellulose mixture with pigment and plasticizer	4.1	UN2557	II	Only ORM-D	Prohibited	4A
Nitrocellulose, dry or wetted with less than 25 percent water (or alcohol), by mass	1.1D	UN0340	II	Prohibited		
Nitrocellulose membrane filters	4.1	UN3270	II	Only ORM-D	Prohibited	4A
Nitrocellulose, plasticized with not less than 18 percent plasticizing substance, by mass	1.3C	UN0343	II	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Nitrocellulose, solution, flammable with not less than 12.6 percent nitrogen, by mass, and not more than 55 percent nitrocellulose	3	UN2059	II, III	Only ORM-D	Prohibited	3A
Nitrocellulose, unmodified or plasticized with less than 18 percent plasticizing substance, by mass	1.1D	UN0341	II	Prohibited		
Nitrocellulose, wetted with not less than 25 percent alcohol, by mass	1.3C	UN0342	II	Prohibited		
Nitrocellulose, with alcohol with not less than 25 percent alcohol, by mass, and with not more than 12.6 percent nitrogen, by dry mass	4.1	UN2556	II	Only ORM-D	Prohibited	4A
Nitrocellulose with water with not less than 25 percent water, by mass	4.1	UN2555	II	Only ORM-D	Prohibited	4A
Nitrochlorobenzene, see Chloronitrobenzenes etc.						
Nitrocresols	6.1	UN2446	III	Only ORM-D	6A	6A
Nitroethane	3	UN2842	III	Only ORM-D	Prohibited	3A
Nitroethyl nitrate	Forbidden			Prohibited		
Nitroethylene polymer	Forbidden			Prohibited		
Nitrogen, compressed	2.2	UN1066	n/a	Only ORM-D	2B	2B
Nitrogen dioxide, see Dinitrogen tetroxide						
Nitrogen fertilizer solution, see Fertilizer ammoniating solution etc.						
Nitrogen, mixtures with rare gases, see Rare gases and nitrogen mixtures etc.						
Nitrogen peroxide, see Dinitrogen tetroxide liquefied						
Nitrogen, refrigerated liquid cryogenic liquid	2.2	UN1977	n/a	Prohibited		
Nitrogen tetroxide and nitric oxide mixtures, see Nitric oxide and nitrogen tetroxide mixtures						
Nitrogen tetroxide, see Dinitrogen tetroxide liquefied						
Nitrogen trichloride	Forbidden			Prohibited		
Nitrogen trifluoride, compressed	2.2	UN2451	n/a	Prohibited		
Nitrogen triiodide	Forbidden			Prohibited		
Nitrogen triiodide monoamine	Forbidden			Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Nitrogen trioxide	2.3	UN2421	n/a	Prohibited		
Nitroglycerin, desensitized with not less than 40 percent non-volatile water insoluble phlegmatizer, by mass	1.1D	UN0143	II	Prohibited		
Nitroglycerin, liquid, not desensitized	Forbidden			Prohibited		
Nitroglycerin mixture, desensitized, liquid, flammable, n.o.s. with not more than 30 percent nitroglycerin, by mass	3	UN3343	n/a	Prohibited		
Nitroglycerin mixture, desensitized, solid, n.o.s. with more than 2 percent but not more than 10 percent nitroglycerin, by mass	4.1	UN3319	II	Prohibited		
Nitroglycerin, solution in alcohol, with more than 1 percent but not more than 5 percent nitroglycerin	3	UN3064	II	Prohibited		
Nitroglycerin, solution in alcohol, with more than 1 percent but not more than 10 percent nitroglycerin	1.1D	UN0144	II	Prohibited		
Nitroglycerin, solution in alcohol, with not more than 1 percent nitroglycerin	3	UN1204	II	Prohibited		
Nitroguanidine nitrate	Forbidden			Prohibited		
Nitroguanidine or Picrite, dry or wetted with less than 20 percent water, by mass	1.1D	UN0282	II	Prohibited		
Nitroguanidine, wetted or Picrite, wetted with not less than 20 percent water, by mass	4.1	UN1336	I	Prohibited		
1-Nitrohydantoin	Forbidden			Prohibited		
Nitrohydrochloric acid	8	UN1798	I	Prohibited		
Nitromannite (dry)	Forbidden			Prohibited		
Nitromannite, wetted, see Mannitol hexanitrate, etc.						
Nitromethane	3	UN1261	II	Only ORM-D	Prohibited	3A
Nitromuriatic acid, see Nitrohydrochloric acid						
Nitronaphthalene	4.1	UN2538	III	Only ORM-D	Prohibited	4A
Nitophenols (o-; m-; p-;)	6.1	UN1663	III	Only ORM-D	6A	6A
m-Nitrophenyldinitro methane	Forbidden			Prohibited		
Nitropropanes	3	UN2608	III	Only ORM-D	Prohibited	3A
p-Nitrosodimethylaniline	4.2	UN1369	П	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Nitrostarch, dry or wetted with less than 20 percent water, by mass	1.1D	UN0146	II	Prohibited		
Nitrostarch, wetted with not less than 20 percent water, by mass	4.1	UN1337	I	Prohibited		
Nitrosugars (dry)	Forbidden			Prohibited		
Nitrosyl chloride	2.3	UN1069	n/a	Prohibited		
Nitrosylsulfuric acid	8	UN2308	П	Only ORM-D	8A	8A
Nitrotoluenes, liquid (o-; m-; p-;)	6.1	UN1664	П	Prohibited		
Nitrotoluenes, solid (m-; or p-;)	6.1	UN1664	II	Prohibited		
Nitrotoluidines (mono)	6.1	UN2660	Ш	Only ORM-D	6A	6A
Nitrotriazolone or NTO	1.1D	UN0490	II	Prohibited		
Nitrous oxide	2.2	UN1070	n/a	Only ORM-D	2B	2B
Nitrous oxide and carbon dioxide mixtures, see Carbon dioxide and nitrous oxide mixtures						
Nitrous oxide, refrigerated liquid	2.2	UN2201	n/a	Prohibited		
Nitroxylenes (o-; m-; p-;)	6.1	UN1665	П	Prohibited		
Nitroxylol, see Nitroxylenes						
Nonanes	3	UN1920	Ш	Only ORM-D	Prohibited	3A
Nonflammable gas, n.o.s., see Compressed or Liquefied gases, etc. (UN1955, UN1956)						
Nonliquefied gases, see Compressed gases, etc.						
Nonliquefied hydrocarbon gas, see Hydrocarbon gases, compressed, n.o.s.						
Nonyltrichlorosilane	8	UN1799	II	Prohibited		
Nordhausen acid, see Sulfuric acid, fuming etc.						
Octadecyltrichlorosilane	l 8	UN1800	l II	Prohibited		
Octadiene	3	UN2309	"	Only ORM-D	Prohibited	3A
1,7-Octadiene-3,5-diyne-1,8-di methoxy- 9-octadecynoic acid	Forbidden	2.1200		Prohibited		- · ·
Octafluorobut-2-ene <i>or</i> Refrigerant gas R 1318	2.2	UN2422	n/a	Prohibited		
Octafluorocyclobutane, <i>or</i> Refrigerant gas RC 318	2.2	UN1976	n/a	Prohibited		
Octafluoropropane <i>or</i> Refrigerant gas R 218	2.2	UN2424	n/a	Prohibited		
Octanes	3	UN1262	П	Only ORM-D	Prohibited	3A

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Octogen, see Cyclotetramethylene tetranitramine, etc.						
Octolite or Octol, dry or wetted with less than 15 percent water, by mass	1.1D	UN0266	II	Prohibited		
Octonal	1.1D	UN0496	n/a	Prohibited		
Octyl aldehydes	3	UN1191	Ш	Only ORM-D	Prohibited	3A
Octyltrichlorosilane	8	UN1801	Ш	Prohibited		
Oil gas, compressed	2.3	UN1071	n/a	Prohibited		
Oleum, see Sulfuric acid, fuming etc.						
Organic peroxide, type A, liquid or solid	Forbidden			Prohibited		
Organic peroxide type B, liquid	5.2	UN3101	II	Only ORM-D	5A	5A
Organic peroxide type B, liquid, temperature controlled	5.2	UN3111	II	Prohibited		
Organic peroxide type B, solid	5.2	UN3102	II	Only ORM-D	5A	5A
Organic peroxide type B, solid, temperature controlled	5.2	UN3112	II	Prohibited		
Organic peroxide type C, liquid	5.2	UN3103	П	Only ORM-D	5A	5A
Organic peroxide type C, liquid, temperature controlled	5.2	UN3113	II	Prohibited		
Organic peroxide type C, solid	5.2	UN3104	II	Only ORM-D	5A	5A
Organic peroxide type C, solid, temperature controlled	5.2	UN3114	II	Prohibited		
Organic peroxide type D, liquid	5.2	UN3105	II	Only ORM-D	5A	5A
Organic peroxide type D, liquid, temperature controlled	5.2	UN3115	II	Prohibited		
Organic peroxide type D, solid	5.2	UN3106	II	Only ORM-D	5A	5A
Organic peroxide type D, solid, temperature controlled	5.2	UN3116	II	Prohibited		
Organic peroxide type E, liquid	5.2	UN3107	II	Only ORM-D	5A	5A
Organic peroxide type E, liquid, temperature controlled	5.2	UN3117	II	Prohibited		
Organic peroxide type E, solid	5.2	UN3108	II	Only ORM-D	5A	5A
Organic peroxide type E, solid, temperature controlled	5.2	UN3118	II	Prohibited		
Organic peroxide type F, liquid	5.2	UN3109	II	Only ORM-D	5A	5A
Organic peroxide type F, liquid, temperature controlled	5.2	UN3119	II	Prohibited		
Organic peroxide type F, solid	5.2	UN3110	11	Only ORM-D	5A	5A
Organic peroxide type F, solid, temperature controlled	5.2	UN3120	II	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Organic phosphate, mixed with compressed gas <i>or</i> Organic phosphate compound, mixed with compressed gas <i>or</i> Organic phosphorous compound, mixed with compressed gas	2.3	NA1955	n/a	Prohibited		
Organic pigments, self-heating	4.2	UN3313	II, III	Prohibited		
Organoarsenic compound, n.o.s.	6.1	UN3280	I, II	Prohibited		
Organoarsenic compound, n.o.s.	6.1	UN3280	Ш	Only ORM-D	6A	6A
Organochlorine pesticides liquid, flammable, toxic, flashpoint less than 23° C	3	UN2762	I, II	Prohibited	Prohibited	3A
Organochlorine pesticide, liquid, toxic	6.1	UN2996	I, II	Prohibited		
Organochlorine pesticide, liquid, toxic	6.1	UN2996	III	Only ORM-D	6A	6A
Organochlorine pesticides, liquid, toxic, flammable, flashpoint not less than 23° C	6.1	UN2995	I, II	Prohibited		
Organochlorine pesticides, liquid, toxic, flammable, flashpoint not less than 23° C	6.1	UN2995	III	Only ORM-D	6A	6A
Organochlorine pesticides, solid, toxic	6.1	UN2761	I, II	Prohibited		
Organochlorine pesticides, solid, toxic	6.1	UN2761	III	Only ORM-D	6A	6A
Organometallic compound <i>or</i> Compound solution <i>or</i> Compound dispersion, water-reactive, flammable, n.o.s.	4.3	UN3207	1, 11, 111	Prohibited		
Organometallic compound, toxic n.o.s.	6.1	UN3282	I, II	Prohibited		
Organometallic compound, toxic n.o.s.	6.1	UN3282	Ш	Only ORM-D	6A	6A
Organophosphorus compound, toxic, flammable, n.o.s.	6.1	UN3279	I, II	Prohibited		
Organophosphorus compound, toxic n.o.s.	6.1	UN3278	I, II	Prohibited		
Organophosphorus compound, toxic n.o.s.	6.1	UN3278	III	Only ORM-D	6A	6A
Organophosphorus pesticides, liquid, flammable, toxic, flashpoint less than 23° C	3	UN2784	I, II	Prohibited	Prohibited	3A
Organophosphorus pesticides, liquid, toxic	6.1	UN3018	I, II	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Organophosphorus pesticides, liquid, toxic	6.1	UN3018	III	Only ORM-D	6A	6A
Organophosphorus pesticides, liquid, toxic, flammable, flashpoint not less than 23° C	6.1	UN3017	I, II	Prohibited		
Organophosphorus pesticides, liquid, toxic, flammable, flashpoint not less than 23° C	6.1	UN3017	III	Only ORM-D	6A	6A
Organophosphorus pesticides, solid, toxic	6.1	UN2783	I, II	Prohibited		
Organophosphorus pesticides, solid, toxic	6.1	UN2783	III	Only ORM-D	6A	6A
Organotin compounds, liquid, n.o.s.	6.1	UN2788	I, II	Prohibited		
Organotin compounds, liquid, n.o.s	6.1	UN2788	III	Only ORM-D	6A	6A
Organotin compounds, solid, n.o.s.	6.1	UN3146	I, II	Prohibited		
Organotin compounds, solid, n.o.s.	6.1	UN3146	III	Only ORM-D	6A	6A
Organotin pesticides, liquid, flammable, toxic, flashpoint less than 23° C	3	UN2787	1, 11	Prohibited		
Organotin pesticides, liquid, toxic	6.1	UN3020	I, II	Prohibited		
Organotin pesticides, liquid, toxic	6.1	UN3020	III	Only ORM-D	6A	6A
Organotin pesticides, liquid, toxic, flammable, flashpoint not less than 23° C	6.1	UN3019	I, II	Prohibited		
Organotin pesticides, liquid, toxic, flammable, flashpoint not less than 23° C	6.1	UN3019	III	Only ORM-D	6A	6A
Organotin pesticides, solid, toxic	6.1	UN2786	I, II	Prohibited		
Organotin pesticides, solid, toxic	6.1	UN2786	Ш	Only ORM-D	6A	6A
Orthonitroaniline, see Nitroanilines etc.						
Osmium tetroxide	6.1	UN2471	I	Prohibited		
Other regulated substances, liquid, n.o.s.	9	NA3082	Ш	Only ORM-D	9C	9C
Other regulated substances, solid, n.o.s.	9	NA3077	III	Only ORM-D	9C	9C
Oxidizing liquid, corrosive, n.o.s.	5.1	UN3098	I, II	Prohibited		
Oxidizing liquid, corrosive, n.o.s.	5.1	UN3098	III	Only ORM-D	5A	5A
Oxidizing liquid, n.o.s.	5.1	UN3139	ı	Prohibited		
Oxidizing liquid, n.o.s.	5.1	UN3139	II, III	Only ORM-D	5A	5A
Oxidizing liquid, toxic, n.o.s.	5.1	UN3099	I, II	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Oxidizing liquid, toxic, n.o.s.	5.1	UN3099	III	Only ORM-D	5A	5A
Oxidizing solid, corrosive, n.o.s.	5.1	UN3085	I, II	Prohibited		
Oxidizing solid, corrosive, n.o.s.	5.1	UN3085	III	Only ORM-D	5A	5A
Oxidizing solid, flammable, n.o.s.	5.1	UN3137	1	Prohibited		
Oxidizing solid, n.o.s.	5.1	UN1479	I	Prohibited		
Oxidizing solid, n.o.s.	5.1	UN1479	II, III	Only ORM-D	5A	5A
Oxidizing solid, self-heating, n.o.s.	5.1	UN3100	II	Prohibited		
Oxidizing solid, toxic, n.o.s.	5.1	UN3087	I, II	Prohibited		
Oxidizing solid, toxic, n.o.s.	5.1	UN3087	III	Only ORM-D	5A	5A
Oxidizing solid, water-reactive, n.o.s.	5.1	UN3121	n/a	Prohibited		
Oxygen and carbon dioxide mixtures, see Carbon dioxide and oxygen mixtures, compressed						
Oxygen, compressed	2.2	UN1072	n/a	Only ORM-D	2B	2B
Oxygen difluoride, compressed	2.3	UN2190	n/a	Prohibited		
Oxygen generator, chemical	5.1	UN3356	II	Prohibited		
Oxygen mixtures with rare gases, see Rare gases and oxygen mixtures, compressed						
Oxygen, refrigerated liquid (cryogenic liquid)	2.2	UN1073	n/a	Prohibited		
Paint including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler, and liquid lacquer base	3	UN1263	I, II, III	Only ORM-D	Prohibited	3A
Paint or Paint related material	8	UN3066	II, III	Only ORM-D	8A	8A
Paint related material including paint thinning, drying, removing, or reducing compound	3	UN1263	1, 11, 111	Only ORM-D	Prohibited	8A
Paper, unsaturated oil treated incompletely dried (including carbon paper)	4.2	UN1379	III	Prohibited		
Paraformaldehyde	4.1	UN2213	III	Only ORM-D	Prohibited	4A
Paraldehyde	3	UN1264	III	Only ORM-D	Prohibited	3A
Paranitroaniline, solid, see Nitroanilines etc.						
Parathion	6.1	NA2783	I, II	Prohibited		
Parathion and compressed gas mixture	2.3	NA1967	n/a	Prohibited		
Paris green, solid, see Copper acetoarsenite						

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
PCB, see Polychlorinated biphenyls						
Pentaporane	4.2	UN1380	I	Prohibited		
Pentachloroethane	6.1	UN1669	П	Prohibited		
Pentachlorophenol	6.1	UN3155	П	Prohibited		
Pentaerythrite tetranitrate (dry)	Forbidden			Prohibited		
Pentaerythrite tetranitrate or Pentaerythritol tetranitrate or PETN, with not less than 7 percent wax by mass	1.1D	UN0411	II	Prohibited		
Pentaerythrite tetranitrate mixture, desensitized, solid, n.o.s. with more than 10 percent but not more than 20 percent PETN, by mass	4.1	UN3344	II	Prohibited		
Pentaerythrite tetranitrate, wetted or Pentaerythritol tetranitrate, wetted or PETN, wetted with not less than 25 percent water, by mass, or Pentaerythrite tetranitrate, or Pentaerythritol tetranitrate, or PETN, desensitized with not less than 15 percent phlegmatizer by mass	1.1D	UN0150	II	Prohibited		
Pentaerythritol tetranitrate, see Pentaerythrite tetranitrate, etc.						
Pentafluoroethane <i>or</i> Refrigerant gas R 125	2.2	UN3220	n/a	Only ORM-D	2B	2B
Pentamethylheptane	3	UN2286	Ш	Only ORM-D	Prohibited	3A
Pentane-2,4-dione	3	UN2310	Ш	Only ORM-D	Prohibited	3A
Pentanes	3	UN1265	I, II	Only ORM-D	Prohibited	3A
Pentanitroaniline (dry)	Forbidden			Prohibited		
Pentanols	3	UN1105	II, III	Only ORM-D	Prohibited	3A
1-Pentene (n-amylene)	3	UN1108	I	Only ORM-D	Prohibited	3A
1-Pentol	8	UN2705	П	Only ORM-D	8A	8A
Pentolite, dry or wetted with less than 15 percent water, by mass	1.1D	UN0151	II	Prohibited		
Pepper spray, see Aerosols, etc. or Self-defense spray, non-pressurized						
Perchlorates, inorganic, aqueous solution, n.o.s.	5.1	UN3211	II, III	Only ORM-D	5A	5A
Perchlorates, inorganic, n.o.s.	5.1	UN1481	II, III	Only ORM-D	5A	5A
Perchloric acid with more than 50 percent but not more than 72 percent acid, by mass	5.1	UN1873	I	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Perchloric acid with not more than 50 percent acid by mass	8	UN1802	II	Prohibited		
Perchloric acid, with more than 72 percent acid by mass	Forbidden			Prohibited		
Perchloroethylene, see Tetrachloroethylene						
Perchloromethyl mercaptan	6.1	UN1670	I	Prohibited		
Perchloryl fluoride	2.3	UN3083	n/a	Prohibited		
Percussion caps, see Primers, cap type						
Perfluoro (ethyl vinyl ether)	2.1	UN3154	n/a	Only ORM-D	Prohibited	2A
Perfluoro (methyl vinyl ether)	2.1	UN3153	n/a	Only ORM-D	Prohibited	2A
Perfluoro-2-butene, see Octafluorobut-2-ene						
Perfumery products with flammable solvents	3	UN1266	II, III	Only ORM-D	Prohibited	3A
Permanganates, inorganic, aqueous solution, n.o.s.	5.1	UN3214	II	Only ORM-D	5A	5A
Permanganates, inorganic, n.o.s.	5.1	UN1482	II, III	Only ORM-D	5A	5A
Peroxides, inorganic, n.o.s.	5.1	UN1483	П	Prohibited		
Peroxides, inorganic, n.o.s.	5.1	UN1483	Ш	Only ORM-D	5A	5A
Peroxyacetic acid, with more than 43 percent and with more than 6 percent hydrogen peroxide	Forbidden			Prohibited		
Persulfates, inorganic, aqueous solution, n.o.s.	5.1	UN3216	III	Only ORM-D	5A	5A
Persulfates, inorganic, n.o.s.	5.1	UN3215	Ш	Only ORM-D	5A	5A
Pesticides, liquid, flammable, toxic, flashpoint less than 23° C	3	UN3021	I, II	Prohibited		
Pesticides, liquid, toxic, flammable, flashpoint not less than 23° C	6.1	UN2903	1, 11	Prohibited		
Pesticides, liquid, toxic, flammable, flashpoint not less than 23° C	6.1	UN2903	III	Only ORM-D	6A	6A
Pesticides, liquid, toxic, n.o.s.	6.1	UN2902	I, II	Prohibited		
Pesticides, liquid, toxic, n.o.s.	6.1	UN2902	Ш	Only ORM-D	6A	6A
Pesticides, solid, toxic, n.o.s.	6.1	UN2588	I, II	Prohibited		
Pesticides, solid, toxic, n.o.s.	6.1	UN2588	Ш	Only ORM-D	6A	6A
PETN, see Pentaerythrite tetranitrate						
PETN/TNT, see Pentolite, etc.						
Petro, see Gasoline						
Petroleum crude oil	3	UN1267	I	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Petroleum crude oil	3	UN1267	II, III	Only ORM-D	Prohibited	3A
Petroleum distillates, n.o.s. or Petroleum products, n.o.s.	3	UN1268	1, 11, 111	Only ORM-D	Prohibited	3A
Petroleum gases, liquefied <i>or</i> Liquefied petroleum gas	2.1	UN1075	n/a	Only ORM-D	Prohibited	2A
Petroleum oil	3	NA1270	I	Prohibited		
Petroleum oil	3	NA1270	II, III	Only ORM-D	Prohibited	3A
Phenacyl bromide	6.1	UN2645	II	Prohibited		
Phenetidines	6.1	UN2311	III	Only ORM-D	6A	6A
Phenol, molten	6.1	UN2312	II	Prohibited		
Phenol, solid	6.1	UN1671	II	Prohibited		
Phenol solutions	6.1	UN2821	II	Prohibited		
Phenol solutions	6.1	UN2821	III	Only ORM-D	6A	6A
Phenolsulfonic acid, liquid	8	UN1803	II	Only ORM-D	8A	8A
Phenoxyacetic acid derivative pesticide, liquid, flammable, toxic flashpoint less than 23° C	3	UN3346	I, II	Prohibited		
Phenoxyacetic acid derivative pesticide, liquid, toxic	6.1	UN3348	I	Prohibited		
Phenoxyacetic acid derivative pesticide, liquid, toxic	6.1	UN3348	II, III	Only ORM-D	6A	6A
Phenoxyacetic acid derivative pesticide, liquid, toxic, flammable, flashpoint not less than 23° C	6.1	UN3347	I	Prohibited		
Phenoxyacetic acid derivative pesticide, liquid, toxic, flammable, flashpoint not less than 23° C	6.1	UN3347	11, 111	Only ORM-D	6A	6A
Phenoxyacetic acid derivative pesticide, solid, toxic	6.1	UN3345	1	Prohibited		
Phenoxyacetic acid derivative pesticide, solid, toxic	6.1	UN3345	II, III	Only ORM-D	6A	6A
Phenyl chloroformate	6.1	UN2746	II	Prohibited		
Phenyl isocyanate	6.1	UN2487	I	Prohibited		
Phenyl mercaptan	6.1	UN2337	I	Prohibited		
Phenyl phosphorus dichloride	8	UN2798	II	Only ORM-D	8A	8A
Phenyl phosphorus thiodichloride	8	UN2799	II	Only ORM-D	8A	8A
Phenyl urea pesticides, liquid, toxic	6.1	UN3002	1, 11	Prohibited		
Phenyl urea pesticides, liquid, toxic	6.1	UN3002	III	Only ORM-D	6A	6A
Phenylacetonitrile, liquid	6.1	UN2470	III	Only ORM-D	6A	6A
Phenylacetyl chloride	8	UN2577	II	Only ORM-D	8A	8A
Phenylcarbylamine chloride	6.1	UN1672	I	Prohibited	1	

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
m-Phenylene diaminediperchlorate (dry)	Forbidden			Prohibited		
Phenylenediamines (o-; m-; p-;)	6.1	UN1673	Ш	Only ORM-D	6A	6A
Phenylhydrazine	6.1	UN2572	П	Prohibited		
Phenylmercuric acetate	6.1	UN1674	II	Prohibited		
Phenylmercuric compounds, n.o.s.	6.1	UN2026	I, II	Prohibited		
Phenylmercuric compounds, n.o.s.	6.1	UN2026	III	Only ORM-D	6A	6A
Phenylmercuric hydroxide	6.1	UN1894	П	Prohibited		
Phenylmercuric nitrate	6.1	UN1895	II	Prohibited		
Phenyltrichlorosilane	8	UN1804	II	Prohibited		
Phosgene	2.3	UN1076		Prohibited		
9-Phosphabicyclononanes <i>or</i> Cyclooctadiene phosphines	4.2	UN2940	II	Prohibited		
Phosphine	2.3	UN2199		Prohibited		
Phosphoric acid	8	UN1805	Ш	Only ORM-D	8A	8A
Phosphoric acid triethyleneimine, see Tris-(1-aziridinyl)phosphine oxide, solution						
Phosphorus, amorphous	4.1	UN1338	III	Prohibited		
Phosphoric anhydride, see Phosphorus pentoxide						
Phosphorous acid	8	UN2834	III	Only ORM-D	8A	8A
Phosphorus bromide, see Phosphorus tribromide						
Phosphorus chloride, see Phosphorus trichloride						
Phosphorus heptasulfide, free from yellow or white phosphorus	4.1	UN1339	II	Prohibited		
Phosphorus oxybromide	8	UN1939	II	Prohibited		
Phosphorus oxybromide, molten	8	UN2576	II	Prohibited		
Phosphorus oxychloride	8	UN1810	Ш	Prohibited		
Phosphorus pentabromide	8	UN2691	II	Only ORM-D	8A	8A
Phosphorus pentachloride	8	UN1806	II	Prohibited		
Phosphorus pentafluoride, compressed	2.3	UN2198		Prohibited		
Phosphorus pentasulfide, free from yellow or white phosphorus	4.3	UN1340	II	Only ORM-D	Prohibited	4A
Phosphorus pentoxide	8	UN1807	II	Only ORM-D	8A	8A
Phosphorus sesquisulfide, free from yellow or white phosphorus	4.1	UN1341	II	Prohibited		
Phosphorus tribromide	8	UN1808	II	Prohibited		
Phosphorus trichloride	6.1	UN1809	I	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Phosphorus trioxide	8	UN2578	Ш	Only ORM-D	8A	8A
Phosphorus trisulfide, free from yellow or white phosphorus	4.1	UN1343	II	Prohibited		
Phosphorus, white dry or Phosphorus, white, under water or Phosphorus white, in solution or Phosphorus, yellow dry or Phosphorus, yellow, under water or Phosphorus, yellow, in solution	4.2	UN1381	I	Prohibited		
Phosphorus white, molten	4.2	UN2447	I	Prohibited		
Phosphorus (white or red) and a chlorate, mixtures of	Forbidden			Prohibited		
Phosphoryl chloride, see Phosphorus oxychloride						
Phthalic anhydride with more than .05 percent maleic anhydride	8	UN2214	III	Only ORM-D	8A	8A
Picolines	3	UN2313	Ш	Only ORM-D	Prohibited	3A
Picric acid, see Trinitrophenol, etc.						
Picric acid, wet, with not less than 10 percent water	4.1	NA1344	I	Prohibited		
Picrite, see Nitroguanidine, etc.						
Picryl chloride, see Trinitrochlorobenzene						
Pine oil	3	UN1272	Ш	Only ORM-D	Prohibited	3A
alpha-Pinene	3	UN2368	Ш	Only ORM-D	Prohibited	3A
Piperazine	8	UN2579	Ш	Only ORM-D	8A	8A
Piperidine	8	UN2401	I	Prohibited		
Pivaloyl chloride, see Trimethylacetyl chloride						
Plastic molding compound in dough, sheet, or extruded rope form evolving flammable vapor	9	UN3314	III	Only ORM-D	9C	9C
Plastic solvent, n.o.s., see Flammable liquids, n.o.s.						
Plastics, nitrocellulose-based, self-heating, n.o.s.	4.2	UN2006	III	Prohibited		
Poisonous gases, n.o.s., see Compressed or Liquefied gases, flammable or toxic, n.o.s.						
Polyalkylamines, n.o.s., see Amines, etc.						
Polychlorinated biphenyls, liquid	9	UN2315	П	Only ORM-D	9C	9C
Polychlorinated biphenyls, solid	9	UN2315	П	Only ORM-D	9C	9C
Polyester resin kit	3	UN3269	n/a	Only ORM-D	Prohibited	3A

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Polyhalogenated biphenyls, liquid <i>or</i> Polyhalogenated terphenyls, liquid	9	UN3151	II	Only ORM-D	9C	9C
Polyhalogenated biphenyls, solid <i>or</i> Polyhalogenated terphenyls, solid	9	UN3152	II	Only ORM-D	9C	9C
Polymeric beads, expandable, evolving flammable vapor	9	UN2211	III	Only ORM-D	9C	9C
Potassium	4.3	UN2257	I	Prohibited		
Potassium arsenate	6.1	UN1677	П	Prohibited		
Potassium arsenite	6.1	UN1678	П	Prohibited		
Potassium bisulfite solution, see Bisulfites, inorganic, aqueous solutions, n.o.s.						
Potassium borohydride	4.3	UN1870	I	Prohibited		
Potassium bromate	5.1	UN1484	Ш	Only ORM-D	5A	5A
Potassium carbonyl	Forbidden			Prohibited		
Potassium chlorate	5.1	UN1485	П	Only ORM-D	5A	5A
Potassium chlorate mixed with mineral oil, see Explosive, blasting, type C						
Potassium chlorate, aqueous solution	5.1	UN2427	II, III	Only ORM-D	5A	5A
Potassium cuprocyanide	6.1	UN1679	П	Prohibited		
Potassium cyanide	6.1	UN1680	I	Prohibited		
Potassium dichloro isocyanurate or Potassium dichloro-s-triazinetrione, see Dichloroisocyanuric acid, dry or Dichloroisocyanuric acid salts etc.						
Potassium dithionite <i>or</i> Potassium hydrosulfite	4.2	UN1929	II	Prohibited		
Potassium fluoride	6.1	UN1812	Ш	Only ORM-D	6A	6A
Potassium fluoroacetate	6.1	UN2628	I	Prohibited		
Potassium fluorosilicate	6.1	UN2655	Ш	Only ORM-D	6A	6A
Potassium hydrate, see Potassium hydroxide, solid						
Potassium hydrogen fluoride solution, see Corrosive liquid, n.o.s.						
Potassium hydrogen fluoride, see Potassium hydrogendifluoride						
Potassium hydrogen sulfate	8	UN2509	П	Only ORM-D	8A	8A
Potassium hydrogendifluoride, solid	8	UN1811	II	Only ORM-D	8A	8A

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Potassium hydrogendifluoride, solution	8	UN1811	II	Only ORM-D	8A	8A
Potassium hydrosulfite, see Potassium dithionite						
Potassium hydroxide, liquid, see Potassium hydroxide solution						
Potassium hydroxide, solid	8	UN1813	П	Only ORM-D	8A	8A
Potassium hydroxide, solution	8	UN1814	II, III	Only ORM-D	8A	8A
Potassium hypochlorite, solution, see Hypochlorite solutions						
Potassium, metal alloys	4.3	UN1420	I	Prohibited	Prohibited	4A
Potassium metal, liquid alloy, see Alkali metal alloys, liquid etc.						
Potassium metavanadate	6.1	UN2864	Ш	Prohibited		
Potassium monoxide	8	UN2033	П	Only ORM-D	8A	8A
Potassium nitrate	5.1	UN1486	III	Only ORM-D	5A	5A
Potassium nitrate and sodium nitrite mixtures	5.1	UN1487	II	Only ORM-D	5A	5A
Potassium nitrite	5.1	UN1488	Ш	Only ORM-D	5A	5A
Potassium perchlorate, solid	5.1	UN1489	II	Only ORM-D	5A	5A
Potassium perchlorate, solution	5.1	UN1489	Ш	Only ORM-D	5A	5A
Potassium permanganate	5.1	UN1490	П	Only ORM-D	5A	5A
Potassium peroxide	5.1	UN1491	I	Prohibited		
Potassium persulfate	5.1	UN1492	Ш	Only ORM-D	5A	5A
Potassium phosphide	4.3	UN2012	I	Prohibited		
Potassium selenate, see Selenates or Selenites						
Potassium selenite, see Selenates or Selenites						
Potassium sodium alloys	4.3	UN1422	I	Prohibited		
Potassium sulfide, anhydrous or Potassium sulfide with less than 30 percent water of crystallization	4.2	UN1382	II	Prohibited		
Potassium sulfide, hydrated with not less than 30 percent water of crystallization	8	UN1847	II	Prohibited		
Potassium superoxide	5.1	UN2466	I	Prohibited		
Powder cake, wetted or Powder paste, wetted with not less than 25 percent water, by mass	1.3C	UN0159	II	Prohibited		
Powder cake, wetted or Powder paste, wetted with not less than 17 percent alcohol by mass	1.1C	UN0433	II	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Powder paste, see Powder cake, etc.						
Powder, smokeless	1.1C	UN0160	II	Prohibited		
Powder, smokeless	1.3C	UN0161	II	Prohibited		
Power device, explosive, see Cartridges, power device						
Primers, cap type	1.1B	UN0377	П	Prohibited		
Primers, cap type	1.4B	UN0378	II	Prohibited		
Primers, cap type	1.4S	UN0044	II	Prohibited		
Primers, small arms, see Primers, cap type						
Primers, tubular	1.3G	UN0319	П	Prohibited		
Primers, tubular	1.4G	UN0320	II	Prohibited		
Primers, tubular	1.4S	UN0376	П	Prohibited		1
Printing ink, flammable	3	UN1210	I, II, II	Only ORM-D	Prohibited	3A
Projectiles, illuminating, see Ammunition, illuminating, etc.						
Projectiles, inert with tracer	1.3G	UN0424	П	Prohibited		1
Projectiles, inert with tracer	1.4G	UN0425	П	Prohibited		1
Projectiles, inert with tracer	1.4S	UN0345	П	Prohibited		
Projectiles, with burster or expelling charge	1.2D	UN0346	II	Prohibited		
Projectiles, with burster or expelling charge	1.2F	UN0426	II	Prohibited		
Projectiles, with burster or expelling charge	1.2G	UN0434	II	Prohibited		
Projectiles, with burster or expelling charge	1.4D	UN0347	II	Prohibited		
Projectiles, with burster or expelling charge	1.4F	UN0427	II	Prohibited		
Projectiles, with burster or expelling charge	1.4G	UN0435	II	Prohibited		
Projectiles, with bursting charge	1.1D	UN0168	II	Prohibited		
Projectiles, with bursting charge	1.1F	UN0167	П	Prohibited		
Projectiles, with bursting charge	1.2D	UN0169	П	Prohibited		
Projectiles, with bursting charge	1.2F	UN0324	П	Prohibited		
Projectiles, with bursting charge	1.4D	UN0344	П	Prohibited		
Propadiene mixed with acetylene, see Methyl acetylene and propadiene mixtures, stabilized						
Propadiene, inhibited	2.1	UN2200	n/a	Prohibited		
Propane see also Petroleum gases, liquefied	2.1	UN1978	n/a	Only ORM-D	Prohibited	2A
Propanethiols	3	UN2402	II	Only ORM-D	Prohibited	3A

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
n-Propanol <i>or</i> Propyl alcohol, normal	3	UN1274	II, III	Only ORM-D	Prohibited	3A
Propargyl alcohol	3	NA1986	П	Prohibited		
Propellant, liquid	1.1C	UN0497	П	Prohibited		
Propellant, liquid	1.3C	UN0495	II	Prohibited		
Propellant, solid	1.1C	UN0498	II	Prohibited		
Propellant, solid	1.3C	UN0499	II	Prohibited		
Propionaldehyde	3	UN1275	II	Only ORM-D	Prohibited	3A
Propionic acid	8	UN1848	III	Only ORM-D	8A	8A
Propionic anhydride	8	UN2496	III	Only ORM-D	8A	8A
Propionitrile	3	UN2404	II	Prohibited		
Propionyl chloride	3	UN1815	II	Prohibited		
n-Propyl acetate	3	UN1276	Ш	Only ORM-D	Prohibited	3A
Propyl alcohol, see Propanol				-		
n-Propyl benzene	3	UN2364	III	Only ORM-D	Prohibited	3A
Propyl chloride	3	UN1278	Ш	Prohibited		
n-Propyl chloroformate	6.1	UN2740	ı	Prohibited		
Propyl formates	3	UN1281	II	Only ORM-D	Prohibited	3A
n-Propyl isocyanate	6.1	UN2482	1	Prohibited		
Propyl mercaptan, see Propanethiols						
n-Propyl nitrate	3	UN1865	Ш	Only ORM-D	Prohibited	3A
Propylamine	3	UN1277	Ш	Prohibited		
Propylene see also Petroleum gases, liquefied	2.1	UN1077	n/a	Only ORM-D	Prohibited	2A
Propylene chlorohydrin	6.1	UN2611	II	Prohibited		
Propylene oxide	3	UN1280	ı	Prohibited		
Propylene tetramer	3	UN2850	Ш	Only ORM-D	Prohibited	3A
1,2-Propylenediamine	8	UN2258	Ш	Prohibited		
Propyleneimine, inhibited	3	UN1921	I	Prohibited		
Propyltrichlorosilane	8	UN1816	Ш	Prohibited		
Prussic acid, see Hydrogen cyanide etc.						
Pyrethroid pesticide, liquid, flammable, toxic, flashpoint less than 23° C	3	UN3350	1, 11	Prohibited		
Pyrethroid pesticide, liquid, flammable, toxic, flashpoint less than 23° C	6.1	UN3351	I	Prohibited		
Pyrethroid pesticide, liquid, flammable, toxic, flashpoint less than 23° C	6.1	UN3351	11, 111	Only ORM-D	6A	6A
Pyrethroid pesticide, liquid, toxic	6.1	UN3352	I	Prohibited		
Pyrethroid pesticide, liquid, toxic	6.1	UN3352	II, III	Only ORM-D	6A	6A

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Pyrethroid pesticide, solid, toxic	6.1	UN3349	1	Prohibited		
Pyrethroid pesticide, solid, toxic	6.1	UN3349	II, III	Only ORM-D	6A	6A
Pyridine	3	UN1282	П	Prohibited		
Pyridine perchlorate	Forbidden			Prohibited		
Pyrophoric liquid, inorganic, n.o.s.	4.2	UN3194	I	Prohibited		
Pyrophoric liquids, organic, n.o.s.	4.2	UN2845	I	Prohibited		
Pyrophoric metals, n.o.s. <i>or</i> Pyrophoric alloys, n.o.s.	4.2	UN1383	I	Prohibited		
Pyrophoric organometallic compound, water-reactive, n.o.s.	4.2	UN3203	I	Prohibited		
Pyrophoric solid, inorganic, n.o.s.	4.2	UN3200	I	Prohibited		
Pyrophoric solids, organic, n.o.s.	4.2	UN2846	I	Prohibited		
Pyrosulfuryl chloride	8	UN1817	Ш	Only ORM-D	8A	8A
Pyroxylin solution or solvent, see Nitrocellulose						
Pyrrolidine	3	UN1922	Ш	Prohibited		
	•	•	•	•	•	•
Quebrachitol pentanitrate	Forbidden			Prohibited		
Quicklime, see Calcium oxide						
Quinoline	6.1	UN2656	Ш	Only ORM-D	6A	6A
R 114, see Dichlorotetrafluroethane						
R 115, see Chloropentafluoroethane						
R 116, see Hexafluoroethane						
R 12, see Dichlorodifluoromethane						
R 124, see Chlorotetrafluoroethane						
R 12B1, see Chlorodifluorobromomethane						
R 13, see Chlorotrifluoromethane						
R 133a, see Chlorotrifluoroethane						
R 13B1, see Bromotrifluoromethane						
R 14, see Tetrafluoromethane						
R 152a, see Difluoroethane						
R 21, see Dichlorofluoromethane						

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
R 22, see Chlorodifluoromethane						
R 500, see Dichlorodifluoromethane and difluorethane, etc.						
R 502, see Chlorodifluoromethane and chloropentafluoroethane mixture, etc.						
R 503, see Chlorotrifluoromethane and trifluoromethane, etc.						
Radioactive material, excepted package-articles manufactured from natural <i>or</i> depleted uranium <i>or</i> natural thorium	7	UN2910	n/a	Mailable per 347		7A
Radioactive material, excepted package-empty package or empty packaging	7	UN2910	n/a	Prohibited		
Radioactive material, excepted package-instruments or articles	7	UN2910	n/a	Mailable per 347		7A
Radioactive material, excepted package-limited quantity of material	7	UN2910	n/a	Mailable per 347		7A
Radioactive material, fissile, n.o.s.	7	UN2918	n/a	Prohibited		
Radioactive material, low specific activity, n.o.s. <i>or</i> Radioactive material, LSA, n.o.s.	7	UN2912	n/a	Prohibited		
Radioactive material, n.o.s.	7	UN2982	n/a	Prohibited		
Radioactive material, special form, n.o.s.	7	UN2974	n/a	Prohibited		
Radioactive material, surface contaminated object <i>or</i> Radioactive material, SCO	7	UN2913	n/a	Prohibited		
Railway torpedo, see Signals, railway track, explosive						
Rare gases and nitrogen mixtures, compressed	2.2	UN1981	n/a	Only ORM-D	2B	2B
Rare gases and oxygen mixtures, compressed	2.2	UN1980	n/a	Only ORM-D	2B	2B
Rare gases, mixtures, compressed	2.2	UN1979	n/a	Only ORM-D	2B	2B
RC318, see Octafluorocyclobutane						

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
RDX and cyclotetramethylenetetranitramine, wetted or desensitized see RDX and HMX mixtures, wetted or desensitized						
RDX and HMX mixtures, wetted with not less than 15 percent water by mass or RDX and HMX mixtures, desensitized with not less than 10 percent phlegmatizer by mass	1.1D	UN0391	II	Prohibited		
RDX and Octogen mixtures, wetted or desensitized see RDX and HMX mixtures, wetted or desensitized, etc.						
RDX, see Cyclotrimethylenetrinitramine, etc.						
Receptacles, small, containing gas (gas cartridges) flammable, without release device, not refillable and not exceeding 1 L capacity	2.1	UN2037	n/a	Only ORM-D	Prohibited	2A
Receptacles, small, containing gas (gas cartridges) nonflammable, without release device, not refillable and not exceeding 1 L capacity	2.2	UN2037	n/a	Only ORM-D	2B	2B
Red phosphorus, see Phosphorus, amorphous						
Refrigerant gas R 404A	2.2	UN3337	n/a	Only ORM-D	2B	2B
Refrigerant gas R 407A	2.2	UN3338	n/a	Only ORM-D	2B	2B
Refrigerant gas R 407B	2.2	UN3339	n/a	Only ORM-D	2B	2B
Refrigerant gas R 407C	2.2	UN3340	n/a	Only ORM-D	2B	2B
Refrigerant gases, n.o.s.	2.2	UN1078	n/a	Only ORM-D	2B	2B
Refrigerant gases, n.o.s., or Dispersant gases, n.o.s.	2.1	NA1954	n/a	Only ORM-D	Prohibited	2A
Refrigerating machine	3	NA1993	Ш	Only ORM-D	Prohibited	3A
Refrigerating machines, containing flammable, nonpoisonous, liquefied gas	2.1	NA1954	n/a	Only ORM-D	Prohibited	2A
Refrigerating machines, containing nonflammable, nontoxic, liquefied gas or ammonia solution (UN2672)	2.2	UN2857	n/a	Only ORM-D	2B	2B

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Regulated medical waste (sharps)	6.2	UN3291	II	Mailable only with HQ approval per DMM 601.10.17.5 and 346.212; 346.23	6D	Prohibited
Regulated medical waste (non-sharps)	6.2	UN3291	II	Mailable only per DMM 601.10.17.5 and 346.212; 346.32	6E	Prohibited
Release devices, explosive	1.4S	UN0173	II	Prohibited		
Resin solution, flammable	3	UN1866	I, II, III	Only ORM-D	Prohibited	3A
Resorcinol	6.1	UN2876	III	Only ORM-D	6A	6A
Rifle grenade, see Grenades, hand or rifle, etc.						
Rifle powder, see Powder, smokeless (UN0160)						
Rivets, explosive	1.48	UN0174	II	Prohibited		
Road asphalt or tar liquid, see Tars, liquid etc.						
Rocket motors	1.3C	UN0186	II	Prohibited		
Rocket motors	1.1C	UN0280	II	Prohibited		
Rocket motors	1.2C	UN0281	II	Prohibited		
Rocket motors, liquid fueled	1.2J	UN0395	II	Prohibited		
Rocket motors, liquid fueled	1.3J	UN0396	II	Prohibited		
Rocket motors with hypergolic liquids with or without an expelling charge	1.3L	UN0250	II	Prohibited		
Rocket motors with hypergolic liquids with or without an expelling charge	1.2L	UN0322	II	Prohibited		
Rockets, line-throwing	1.2G	UN0238	II	Prohibited		
Rockets, line-throwing	1.3G	UN0240	II	Prohibited		
Rockets, line-throwing	1.4G	UN0453	II	Prohibited		
Rockets, liquid fueled with bursting charge	1.1J	UN0397	II	Prohibited		
Rockets, liquid fueled with bursting charge	1.2J	UN0398	II	Prohibited		
Rockets, with bursting charge	1.1E	UN0181	II	Prohibited		
Rockets, with bursting charge	1.1F	UN0180	II	Prohibited		
Rockets, with bursting charge	1.2E	UN0182	II	Prohibited		
Rockets, with bursting charge	1.2F	UN0295	II	Prohibited		
Rockets, with expelling charge	1.2C	UN0436	II	Prohibited		
Rockets, with expelling charge	1.3C	UN0437	II	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Rockets, with expelling charge	1.4C	UN0438	П	Prohibited		
Rockets, with inert head	1.3C	UN0183	П	Prohibited		
Rosin oil	3	UN1286	II, III	Only ORM-D	Prohibited	3A
Rubber solution	3	UN1287	II, III	Only ORM-D	Prohibited	3A
Rubidium	4.3	UN1423	1	Prohibited		
Rubidium hydroxide	8	UN2678	II	Only ORM-D	8A	8A
Rubidium hydroxide solution	8	UN2677	II, III	Only ORM-D	8A	8A
Safety fuse, see Fuse, safety						
Samples, explosive, other than initiating explosives		UN0190	II	Prohibited		
Sand acid, see Fluorosilicic acid						
Seed cake with more than 1.5 percent oil and not more than 11 percent moisture	4.2	UN1386	III	Prohibited		
Seed cake with not more than 1.5 percent oil and not more than 11 percent moisture	4.2	UN2217	III	Prohibited		
Seed cake, containing vegetable oil solvent extractions and expelled seeds, with not more than 10 percent of oil and when the amount of moisture is higher than 11 percent, with not more than 20 percent of oil and moisture combined	4.2	UN1386	l III	Prohibited		
Selenates or Selenites	6.1	UN2630	ı	Prohibited		
Selenic acid	8	UN1905	I	Prohibited		
Selenium compound, n.o.s.	6.1	UN3283	I, II	Prohibited		
Selenium compound, n.o.s.	6.1	UN3283	III	Only ORM-D	6A	6A
Selenium disulfide	6.1	UN2657	П	Prohibited		
Selenium hexafluoride	2.3	UN2194		Prohibited		
Selenium nitride	Forbidden			Prohibited		
Selenium oxide	6.1	NA2811	ı	Prohibited		
Selenium oxychloride	8	UN2879	I	Prohibited		
Self-defense spray, aerosol, see Aerosols, etc.						
Self-defense spray, non-pressurized	9	NA3334	III	Only ORM-D	9C	9C
Self-heating liquid, corrosive, inorganic, n.o.s.	4.2	UN3188	II, III	Prohibited		
Self-heating liquid, corrosive, organic, n.o.s.	4.2	UN3185	II, III	Prohibited		
Self-heating liquid, inorganic, n.o.s.	4.2	UN3186	II, III	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Self-heating liquid, organic, n.o.s.	4.2	UN3183	II, III	Prohibited	(-)	(9)
Self-heating liquid, toxic, inorganic, n.o.s.	4.2	UN3187	11, 111	Prohibited		
Self-heating liquid, toxic, organic, n.o.s.	4.2	UN3184	II, III	Prohibited		
Self-heating solid, corrosive, inorganic, n.o.s.	4.2	UN3192	II, III	Prohibited		
Self-heating solid, corrosive, organic, n.o.s.	4.2	UN3126	II, III	Prohibited		
Self-heating solid, inorganic, n.o.s.	4.2	UN3190	II, III	Prohibited		
Self-heating solid, organic, n.o.s.	4.2	UN3088	II, III	Prohibited		
Self-heating solid, oxidizing, n.o.s.	4.2	UN3127	n/a	Prohibited		
Self-heating solid, toxic, inorganic, n.o.s.	4.2	UN3191	II, III	Prohibited		
Self-heating solid, toxic, organic, n.o.s.	4.2	UN3128	II, III	Prohibited		
Self-propelled vehicle, see Engines etc. or Batteries etc.						
Self-reactive liquid type B	4.1	UN3221	II	Prohibited		
Self-reactive liquid type B, temperature controlled	4.1	UN3231	II	Prohibited		
Self-reactive liquid type C	4.1	UN3223	II	Prohibited		
Self-reactive liquid type C, temperature controlled	4.1	UN3233	11	Prohibited		
Self-reactive liquid type D	4.1	UN3225	II	Prohibited		
Self-reactive liquid type D, temperature controlled	4.1	UN3235	11	Prohibited		
Self-reactive liquid type E	4.1	UN3227	П	Prohibited		
Self-reactive liquid type E, temperature controlled	4.1	UN3237	11	Prohibited		
Self-reactive liquid type F	4.1	UN3229	II	Prohibited		
Self-reactive liquid type F, temperature controlled	4.1	UN3239	II	Prohibited		
Self-reactive solid type B	4.1	UN3222	II	Prohibited		
Self-reactive solid type B, temperature controlled	4.1	UN3232	II	Prohibited		
Self-reactive solid type C	4.1	UN3224	II	Prohibited		
Self-reactive solid type C, temperature controlled	4.1	UN3234	11	Prohibited		
Self-reactive solid type D	4.1	UN3226	Ш	Prohibited		
Self-reactive solid type D, temperature controlled	4.1	UN3236	II	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Self-reactive solid type E	4.1	UN3228	П	Prohibited		
Self-reactive solid type E, temperature controlled	4.1	UN3238	II	Prohibited		
Self-reactive solid type F	4.1	UN3230	II	Prohibited		
Self-reactive solid type F, temperature controlled	4.1	UN3240	II	Prohibited		
Shale Oil	3	UN1288	ı	Prohibited		
Shale Oil	3	UN1288	II, III	Only ORM-D	Prohibited	3A
Shaped charges, commercial, see Charges, shaped, commercial, etc.						
Signal devices, hand	1.4G	UN0191	П	Prohibited		
Signal devices, hand	1.4S	UN0373	II	Prohibited		
Signals, distress, ship	1.1G	UN0194	II	Prohibited		
Signals, distress, ship	1.3G	UN0195	II	Prohibited		
Signals, highway, see Signal devices, hand; Fireworks, type D						
Signals, railway track, explosive	1.1G	UN0192	П	Prohibited		
Signals, railway track, explosive	1.3G	UN0492	П	Prohibited		
Signals, railway track, explosive	1.4G	UN0493	П	Prohibited		
Signals, railway track, explosive	1.4S	UN0193	П	Prohibited		
Signals, ship distress, water-activated, see Contrivances, water-activated, etc.						
Signals, smoke	1.1G	UN0196	II	Prohibited		
Signals, smoke	1.2G	UN0313	II	Prohibited		
Signals, smoke	1.3G	UN0487	П	Prohibited		
Signals, smoke	1.4G	UN0197	II	Prohibited		
Silane, compressed	2.1	UN2203	n/a	Prohibited		
Silicofluoric acid, see Fluorosilicic acid						
Silicon chloride, see Silicon tetrachloride						
Silicon powder, amorphous	4.1	UN1346	III	Prohibited		
Silicon tetrachloride	8	UN1818	П	Only ORM-D	8A	8A
Silicon tetrafluoride, compressed	2.3	UN1859	n/a	Prohibited		
Silver acetylide (dry)	Forbidden			Prohibited		
Silver arsenite	6.1	UN1683	II	Prohibited		
Silver azide (dry)	Forbidden			Prohibited		
Silver chlorite (dry)	Forbidden			Prohibited		
Silver cyanide	6.1	UN1684	II	Prohibited		
Silver fulminate (dry)	Forbidden			Prohibited		
Silver nitrate	5.1	UN1493	II	Only ORM-D	5A	5A

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Silver oxalate (dry)	Forbidden			Prohibited		
Silver picrate (dry)	Forbidden			Prohibited		
Silver picrate, wetted with not less than 30 percent water, by mass	4.1	UN1347	I	Prohibited		
Sludge, acid	8	UN1906	П	Prohibited		
Smokeless powder for small arms (100 pounds or less)	4.1	NA3178	I	Prohibited		
Soda lime with more than 4 percent sodium hydroxide	8	UN1907	III	Only ORM-D	8A	8A
Sodium	4.3	UN1428	ı	Prohibited		
Sodium aluminate, solid	8	UN2812	Ш	Only ORM-D	8A	8A
Sodium aluminate, solution	8	UN1819	II, III	Only ORM-D	8A	8A
Sodium aluminum hydride	4.3	UN2835	П	Only ORM-D	Prohibited	4A
Sodium ammonium vanadate	6.1	UN2863	П	Prohibited		
Sodium arsanilate	6.1	UN2473	III	Only ORM-D	6A	6A
Sodium arsenate	6.1	UN1685	П	Prohibited		
Sodium arsenite, aqueous solutions	6.1	UN1686	II	Prohibited		
Sodium arsenite, aqueous solutions	6.1	UN1686	III	Only ORM-D	6A	6A
Sodium arsenite, solid	6.1	UN2027	П	Prohibited		
Sodium azide	6.1	UN1687	П	Prohibited		
Sodium bifluoride, see Sodium hydrogendifluoride, etc.						
Sodium bisulfite, solution, see Bisulfites, aqueous solutions, n.o.s.						
Sodium borohydride	4.3	UN1426	I	Prohibited		
Sodium borohydride and sodium hydroxide solution, with not more than 12 percent sodium borohydride and not more than 40 percent sodium hydroxide by mass	8	UN3320	11, 111	Prohibited		
Sodium bromate	5.1	UN1494	П	Only ORM-D	5A	5A
Sodium cacodylate	6.1	UN1688	П	Prohibited		
Sodium chlorate	5.1	UN1495	П	Only ORM-D	5A	5A
Sodium chlorate, aqueous solution	5.1	UN2428	II, III	Only ORM-D	5A	5A
Sodium chlorate mixed with dinitrotoluene, see Explosive, blasting, type C						
Sodium chlorite	5.1	UN1496	П	Prohibited		
Sodium chloroacetate	6.1	UN2659	Ш	Only ORM-D	6A	6A
Sodium cuprocyanide, solid	6.1	UN2316	ı	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Sodium cuprocyanide, solution	6.1	UN2317	I	Prohibited		
Sodium cyanide	6.1	UN1689	I	Prohibited		
Sodium dichloroisocyanurate or Sodium dichloro-s-triazinetrione, see Dichloroisocyanuric acid etc.						
Sodium dinitro-o-cresolate, <i>dry</i> or wetted with less than 15 percent water, by mass	1.3C	UN0234	II	Prohibited		
Sodium dinitro-o-cresolate, wetted with not less than 15 percent water, by mass	4.1	UN1348	I	Prohibited		
Sodium dithionite or Sodium hydrosulfite	4.2	UN1384	II	Prohibited		
Sodium fluoride	6.1	UN1690	Ш	Only ORM-D	6A	6A
Sodium fluoroacetate	6.1	UN2629	I	Prohibited		
Sodium fluorosilicate	6.1	UN2674	Ш	Only ORM-D	6A	6A
Sodium hydrate, see Sodium hydroxide, solid						
Sodium hydride	4.3	UN1427	1	Prohibited		
Sodium hydrogendifluoride, solid	8	UN2439	II	Only ORM-D	8A	8A
Sodium hydrogendifluoride, solution	8	UN2439	II	Only ORM-D	8A	8A
Sodium hydrosulfide, solution	8	NA2922	Ш	Only ORM-D	8A	8A
Sodium hydrosulfide, with less than 25 percent water of crystallization	4.2	UN2318	II	Prohibited		
Sodium hydrosulfide, with not less than 25 percent water of crystallization	8	UN2949	II	Prohibited		
Sodium hydrosulfite, see Sodium dithionite						
Sodium hydroxide, solid	8	UN1823	II	Only ORM-D	8A	8A
Sodium hydroxide solution	8	UN1824	II, III	Only ORM-D	8A	8A
Sodium hypochlorite, solution, see Hypochlorite solutions						
Sodium metal, liquid alloy, see Alkali metal alloys, liquid, n.o.s.						
Sodium methylate	4.2	UN1431	П	Prohibited		
Sodium methylate solutions in alcohol	3	UN1289	II	Prohibited		
Sodium methylate solutions in alcohol	3	UN1289	Ш	Only ORM-D	Prohibited	3A
Sodium monoxide	8	UN1825	II	Only ORM-D	8A	8A
Sodium nitrate	5.1	UN1498	Ш	Only ORM-D	5A	5A

Hazardous Materials Descriptions and Proper Shipping Names	Hazard Class	ID Number	DOT PG	USPS Mailability	Domestic Mail Air	Domestic Mail Surface
(a)	(b)	(c)	(d)	(e)	(f)	(g)
Sodium nitrate and potassium nitrate mixtures	5.1	UN1499	III	Only ORM-D	5A	5A
Sodium nitrite	5.1	UN1500	Ш	Only ORM-D	5A	5A
Sodium pentachlorophenate	6.1	UN2567	П	Prohibited		
Sodium perchlorate	5.1	UN1502	П	Only ORM-D	5A	5A
Sodium permanganate	5.1	UN1503	П	Only ORM-D	5A	5A
Sodium peroxide	5.1	UN1504	I	Prohibited		
Sodium peroxoborate, anhydrous	5.1	UN3247	II	Only ORM-D	5A	5A
Sodium persulfate	5.1	UN1505	Ш	Only ORM-D	5A	5A
Sodium phosphide	4.3	UN1432	ı	Only ORM-D	Prohibited	4A
Sodium picramate, dry or wetted with less than 20 percent water, by mass	1.3C	UN0235	II	Prohibited		
Sodium picramate, wetted with not less than 20 percent water, by mass	4.1	UN1349	I	Prohibited		
Sodium picryl peroxide	Forbidden			Prohibited		
Sodium potassium alloys, see Potassium sodium alloys						
Sodium selenate, see Selenates or Selenites						
Sodium selenite	6.1	NA2630	П	Prohibited		
Sodium sulfide, anhydrous or Sodium sulfide with less than 30 percent water of crystallization	4.2	UN1385	II	Prohibited		
Sodium sulfide, hydrated with not less than 30 percent water	8	UN1849	II	Prohibited		
Sodium superoxide	5.1	UN2547	I	Prohibited		
Sodium tetranitride	Forbidden			Prohibited		
Solids containing corrosive liquid, n.o.s.	8	UN3244	II	Only ORM-D	8A	8A
Solids containing flammable liquid, n.o.s.	4.1	UN3175	II	Only ORM-D	Prohibited	4A
Solids containing toxic liquid, n.o.s.	6.1	UN3243	II	Prohibited		
Sounding devices, explosive	1.1D	UN0374	П	Prohibited		
Sounding devices, explosive	1.1F	UN0296	П	Prohibited		
Sounding devices, explosive	1.2D	UN0375	П	Prohibited		
Sounding devices, explosive	1.2F	UN0204	П	Prohibited		
Spirits of salt, see Hydrochloric acid						
Squibs, see Igniters						
Stannic chloride, anhydrous	8	UN1827	П	Only ORM-D	8A	8A
Stannic chloride, pentahydrate	8	UN2440	Ш	Only ORM-D	8A	8A

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Stannic phosphide	4.3	UN1433	I	Prohibited		
Steel swarf, see Ferrous metal borings, etc.						
Stibine	2.3	UN2676	n/a	Prohibited		
Storage batteries, wet, see Batteries, wet etc.						
Strontium arsenite	6.1	UN1691	II	Prohibited		
Strontium chlorate	5.1	UN1506	П	Only ORM-D	5A	5A
Strontium nitrate	5.1	UN1507	Ш	Only ORM-D	5A	5A
Strontium perchlorate	5.1	UN1508	П	Only ORM-D	5A	5A
Strontium peroxide	5.1	UN1509	П	Only ORM-D	5A	5A
Strontium phosphide	4.3	UN2013	I	Prohibited		
Strychnine or Strychnine salts	6.1	UN1692	I	Prohibited		
Stryphnic acid, see Trinitroresorcinol, etc.						
Styrene monomer, inhibited	3	UN2055	Ш	Only ORM-D	Prohibited	3A
Substances, explosive, n.o.s.	1.1A	UN0473	П	Prohibited		
Substances, explosive, n.o.s.	1.1C	UN0474	П	Prohibited		
Substances, explosive, n.o.s.	1.1D	UN0475	П	Prohibited		
Substances, explosive, n.o.s.	1.1G	UN0476	П	Prohibited		
Substances, explosive, n.o.s.	1.1L	UN0357	П	Prohibited		
Substances, explosive, n.o.s.	1.2L	UN0358	П	Prohibited		
Substances, explosive, n.o.s.	1.3C	UN0477	П	Prohibited		
Substances, explosive, n.o.s.	1.3G	UN0478	П	Prohibited		
Substances, explosive, n.o.s.	1.3L	UN0359	П	Prohibited		
Substances, explosive, n.o.s.	1.4C	UN0479	П	Prohibited		
Substances, explosive, n.o.s.	1.4D	UN0480	П	Prohibited		
Substances, explosive, n.o.s.	1.4G	UN0485	П	Prohibited		
Substances, explosive, n.o.s.	1.4S	UN0481	П	Prohibited		
Substances, explosive, very insensitive, n.o.s., <i>or</i> Substances, EVI, n.o.s.	1.5D	UN0482	II	Prohibited		
Substituted nitrophenol pesticides, liquid, flammable, toxic, flashpoint less than 23° C	3	UN2780	I, II	Prohibited		
Substituted nitrophenol pesticides, liquid, toxic	6.1	UN3014	I, II	Prohibited		
Substituted nitrophenol pesticides, liquid, toxic	6.1	UN3014	III	Only ORM-D	6A	6A
Substituted nitrophenol pesticides, liquid, toxic flammable flashpoint not less than 23° C	6.1	UN3013	I, II	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Substituted nitrophenol pesticides, liquid, toxic flammable flashpoint not less than 23° C	6.1	UN3013	III	Only ORM-D	6A	6A
Substituted nitrophenol pesticides, solid, toxic	6.1	UN2779	I, II	Prohibited		
Substituted nitrophenol pesticides, solid, toxic	6.1	UN2779	III	Only ORM-D	6A	6A
Sucrose octanitrate (dry)	Forbidden			Prohibited		
Sulfamic acid	8	UN2967	III	Only ORM-D	8A	8A
Sulfur	9	NA1350	III	Prohibited		
Sulfur	4.1	UN1350	Ш	Prohibited		
Sulfur and chlorate, loose mixtures of	Forbidden			Prohibited		
Sulfur chlorides	8	UN1828	ı	Prohibited		
Sulfur dichloride, see Sulfur chlorides						
Sulfur dioxide	2.3	UN1079	n/a	Prohibited		
Sulfur dioxide solution, see Sulfurous acid						
Sulfur hexafluoride	2.2	UN1080	n/a	Only ORM-D		
Sulfur, molten	9	NA2448	Ш	Prohibited		
Sulfur, molten	4.1	UN2448	Ш	Prohibited		
Sulfur tetrafluoride	2.3	UN2418	n/a	Prohibited		
Sulfur trioxide, inhibited or Sulfur trioxide, stabilized	8	UN1829	I	Prohibited		
Sulfur trioxide, uninhibited	8	NA1829	I	Prohibited		
Sulfuretted hydrogen, see Hydrogen sulfide, liquefied						
Sulfuric acid with more than 51 percent acid	8	UN1830	II	Prohibited		
Sulfuric acid with not more than 51 percent acid	8	UN2796	II	Only ORM-D and per 348.2	8A	8A
Sulfuric acid, fuming with 30 percent or more free sulfur trioxide	8	UN1831	I	Prohibited		
Sulfuric acid, fuming with less than 30 percent free sulfur trioxide	8	UN1831	I	Prohibited		
Sulfuric acid, spent	8	UN1832	П	Prohibited		
Sulfuric and hydrofluoric acid mixtures, see Hydrofluoric and sulfuric acid mixtures						
Sulfuric anhydride, see Sulfur trioxide, inhibited						

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Sulfurous acid	8	UN1833	П	Only ORM-D	8A	8A
Sulfuryl chloride	8	UN1834	I	Prohibited		
Sulfuryl fluoride	2.3	UN2191	n/a	Prohibited		
Tars, liquid including road asphalt and oils, bitumen and cut backs	3	UN1999	11, 111	Only ORM-D	Prohibited	3A
Tear gas candles	6.1	UN1700	П	Prohibited		
Tear gas cartridges, see Ammunition, tear-producing, etc.						
Tear gas devices with more than 2 percent tear gas substances, by mass	6.1	NA1693	I, II	Prohibited		
Tear gas devices with not more than 2 percent tear gas substances, by mass, see Aerosols, etc.						
Tear gas grenades, see Tear gas candles						
Tear gas substances, liquid, n.o.s.	6.1	UN1693	I, II	Prohibited		
Tear gas substances, solid, n.o.s.	6.1	UN1693	I, II	Prohibited		
Tellurium compound, n.o.s.	6.1	UN3284	I, II	Prohibited		
Tellurium compound, n.o.s.	6.1	UN3284	III	Only ORM-D	6A	6A
Tellurium hexafluoride	2.3	UN2195	n/a	Prohibited		
Terpene hydrocarbons, n.o.s.	3	UN2319	Ш	Only ORM-D	Prohibited	3A
Terpinolene	3	UN2541	Ш	Only ORM-D	Prohibited	3A
Tetraazido benzene quinone	Forbidden			Prohibited		
Tetrabromoethane	6.1	UN2504	Ш	Only ORM-D	6A	6A
Tetrachloroethane	6.1	UN1702	II	Prohibited		
Tetrachloroethylene	6.1	UN1897	III	Only ORM-D	6A	6A
Tetraethyl dithiopyrophosphate	6.1	UN1704	II	Prohibited		
Tetraethyl lead, liquid	6.1	NA1649	I	Prohibited		
Tetraethyl pyrophosphate, liquid	6.1	NA3018	I	Prohibited		
Tetraethyl pyrophosphate, solid	6.1	NA2783	I	Prohibited		
Tetraethyl silicate	3	UN1292	Ш	Only ORM-D	Prohibited	3A
Tetraethylammonium perchlorate (dry)	Forbidden			Prohibited		
Tetraethylenepentamine	8	UN2320	Ш	Only ORM-D	8A	8A
1,1,1,2-Tetrafluoroethane <i>or</i> Refrigerant gas R 134a	2.2	UN3159	n/a	Only ORM-D	2B	2B
Tetrafluoroethylene, inhibited	2.1	UN1081	n/a	Only ORM-D	Prohibited	2A

Hazardous Materials Descriptions and Proper Shipping Names	Hazard Class	ID Number	DOT PG	USPS Mailability	Domestic Mail Air	Domestic Mail Surface
(a)	(b)	(c)	(d)	(e)	(f)	(g)
Tetrafluoromethane, compressed <i>or</i> Refrigerant gas R 14	2.2	UN1982	n/a	Prohibited		
1,2,3,6-Tetrahydrobenzaldehyde	3	UN2498	III	Only ORM-D	Prohibited	3A
Tetrahydrofuran	3	UN2056	П	Prohibited		
Tetrahydrofurfurylamine	3	UN2943	Ш	Only ORM-D	Prohibited	3A
Tetrahydrophthalic anhydrides with more than 0.05 percent of maleic anhydride	8	UN2698	III	Only ORM-D and per 348.2	8A	8A
1,2,3,6-Tetrahydropyridine	3	UN2410	П	Only ORM-D	Prohibited	3A
Tetrahydrothiophene	3	UN2412	П	Only ORM-D	Prohibited	3A
Tetramethylammonium hydroxide	8	UN1835	II	Only ORM-D	8A	8A
Tetramethylene diperoxide dicarbamide	Forbidden			Prohibited		
Tetramethylsilane	3	UN2749	I	Prohibited		
Tetranitro diglycerin	Forbidden			Prohibited		
Tetranitroaniline	1.1D	UN0207	П	Prohibited		
Tetranitromethane	5.1	UN1510	I	Prohibited		
2,3,4,6-Tetranitrophenol	Forbidden			Prohibited		
2,3,4,6-Tetranitrophenyl methyl nitramine	Forbidden			Prohibited		
2,3,4,6-Tetranitrophenylnitramine	Forbidden			Prohibited		
Tetranitroresorcinol (dry)	Forbidden			Prohibited		
2,3,5,6-Tetranitroso nitrobenzene (dry)	Forbidden			Prohibited		
2,3,5,6-Tetranitroso-1,4-dinitrob enzene	Forbidden			Prohibited		
Tetrapropylorthotitanate	3	UN2413	Ш	Only ORM-D	Prohibited	3A
Tetrazene, see Guanyl nitrosaminoguanyltetrazene						
Tetrazine (dry)	Forbidden			Prohibited		
Tetrazol-1-acetic acid	1.4C	UN0407	П	Prohibited		
Tetrazolyl azide (dry)	Forbidden			Prohibited		
Tetryl, see Trinitrophenylmethylnitramine						
Thallium chlorate	5.1	UN2573	П	Prohibited		
Thallium compounds, n.o.s.	6.1	UN1707	П	Prohibited		
Thallium nitrate	6.1	UN2727	П	Prohibited		
Thallium sulfate, solid	6.1	NA1707	П	Prohibited		
4-Thiapentanal	6.1	UN2785	Ш	Only ORM-D	6A	6A
Thioacetic acid	3	UN2436	П	Only ORM-D	Prohibited	3A
Thiocarbamate pesticide, liquid, flammable, toxic, flashpoint less than 23° C	3	UN2772	I, II	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Thiocarbamate pesticide, liquid, toxic	6.1	UN3006	I, II	Prohibited		
Thiocarbamate pesticide, liquid, toxic	6.1	UN3006	III	Only ORM-D	6A	6A
Thiocarbamate pesticides, liquid, flammable, toxic, flashpoint not less than 23°C	6.1	UN3005	Ι, ΙΙ	Prohibited		
Thiocarbamate pesticides, liquid, flammable, toxic, flashpoint not less than 23° C	6.1	UN3005	III	Only ORM-D	6A	6A
Thiocarbamate pesticides, solid, toxic	6.1	UN2771	I, II	Prohibited		
Thiocarbamate pesticides, solid, toxic	6.1	UN2771	Ш	Only ORM-D	6A	6A
Thiocarbonylchloride, see Thiophosgene						
Thiogylcol	6.1	UN2966	II	Prohibited		
Thioglycolic acid	8	UN1940	II	Only ORM-D	8A	8A
Thiolactic acid	6.1	UN2936	II	Prohibited		
Thionyl chloride	8	UN1836	I	Prohibited		
Thiophene	3	UN2414	II	Only ORM-D	Prohibited	3A
Thiophosgene	6.1	UN2474	II	Prohibited		
Thiophosphoryl chloride	8	UN1837	II	Prohibited		
Thiourea dioxide	4.2	UN3341	II, III	Prohibited		
Thorium metal, pyrophoric	7	UN2975	n/a	Prohibited		
Thorium nitrate, solid	7	UN2976	n/a	Prohibited		
Tin chloride, fuming, see Stannic chloride, anhydrous						
Tin perchloride or Tin tetrachloride, see Stannic chloride, anhydrous						
Tinctures, medicinal	3	UN1293	II, III	Only ORM-D	Prohibited	3A
Tinning flux, see Zinc chloride, etc.						
Titanium disulphide	4.2	UN3174	III	Prohibited		
Titanium hydride	4.1	UN1871	II	Prohibited		
Titanium powder, dry	4.2	UN2546	I, II, III	Prohibited		
Titanium powder, wetted with not less than 25 percent water (a visible excess of water must be present) (a) mechanically produced, particle size less than 53 microns; (b) chemically produced, particle size less than 840 microns	4.1	UN1352	II	Prohibited		
Titanium sponge granules <i>or</i> Titanium sponge powders	4.1	UN2878	III	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Titanium sulfate solution	8	NA1760	П	Prohibited		
Titanium tetrachloride	8	UN1838	П	Prohibited		
Titanium trichloride mixtures	8	UN2869	II, III	Only ORM-D	8A	8A
Titanium trichloride, pryophoric or Titanium trichloride mixtures, pyrophoric	4.2	UN2441	I	Prohibited		
TNT mixed with aluminum, see Tritonal						
TNT, see Trinitrotoluene, etc.						
Toluene	3	UN1294	П	Only ORM-D	Prohibited	3A
Toluene diisocyanate	6.1	UN2078	П	Prohibited		
Toluene sulfonic acid, see Alkyl sulfonic acids, etc.						
Toluidines liquid	6.1	UN1708	П	Prohibited		
Toluidines solid	6.1	UN1708	П	Prohibited		
2,4-Toluylenediamine <i>or</i> 2,4-Toluenediamine	6.1	UN1709	III	Only ORM-D	6A	6A
Torpedoes with bursting charge	1.1D	UN0451	П	Prohibited		
Torpedoes with bursting charge	1.1E	UN0329	П	Prohibited		
Torpedoes with bursting charge	1.1F	UN0330	II	Prohibited		
Torpedoes, liquid fueled, with inert head	1.3J	UN0450	II	Prohibited		
Torpedoes, liquid fueled, with or without bursting charge	1.1J	UN0449	II	Prohibited		
Toxic liquid, corrosive, inorganic, n.o.s.	6.1	UN3289	I, II	Prohibited		
Toxic liquid, corrosive, inorganic, n.o.s. <i>Inhalation</i> <i>Hazard, Packing Group I, Zone A</i>	6.1	UN3289	I	Prohibited		
Toxic liquid, corrosive, inorganic, n.o.s. <i>Inhalation</i> <i>Hazard, Packing Group I, Zone B</i>	6.1	UN3289	I	Prohibited		
Toxic liquid, inorganic, n.o.s.	6.1	UN3287	I, II	Prohibited		
Toxic liquid, inorganic, n.o.s.	6.1	UN3287	Ш	Only ORM-D	6A	6A
Toxic liquid, inorganic, n.o.s. Inhalation Hazard, Packing Group I, Zone A	6.1	UN3287	I	Prohibited		
Toxic liquid, inorganic, n.o.s. Inhalation Hazard, Packing Group I, Zone B	6.1	UN3287	I	Prohibited		
Toxic liquids, corrosive, organic, n.o.s.	6.1	UN2927	I, II	Prohibited		
Toxic liquids, corrosive, organic, n.o.s. <i>Inhalation Hazard, Packing Group I, Zone A</i>	6.1	UN2927	I	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Toxic liquids, corrosive, organic, n.o.s. <i>Inhalation Hazard</i> , <i>Packing Group I, Zone B</i>	6.1	UN2927	I	Prohibited		
Toxic liquids, flammable, organic, n.o.s.	6.1	UN2929	I, II	Prohibited		
Toxic liquids, flammable, organic, n.o.s. Inhalation Hazard, Packing Group I, Zone A	6.1	UN2929	I	Prohibited		
Toxic liquids, flammable, organic, n.o.s. Inhalation Hazard, Packing Group I, Zone B	6.1	UN2929	I	Prohibited		
Toxic, liquids, organic, n.o.s.	6.1	UN2810	I, II	Prohibited		
Toxic, liquids, organic, n.o.s.	6.1	UN2810	Ш	Only ORM-D	6A	6A
Toxic, liquids, organic, n.o.s. Inhalation Hazard, Packing Group I, Zone A	6.1	UN2810	I	Prohibited		
Toxic, liquids, organic, n.o.s. Inhalation Hazard, Packing Group I, Zone B	6.1	UN2810	I	Prohibited		
Toxic liquids, oxidizing, n.o.s.	6.1	UN3122	I, II	Prohibited		
Toxic liquids, oxidizing, n.o.s. Inhalation Hazard, Packing Group I, Zone A	6.1	UN3122	I	Prohibited		
Toxic liquids, oxidizing, n.o.s. Inhalation Hazard, Packing Group I, Zone B	6.1	UN3122	I	Prohibited		
Toxic liquids, water-reactive, n.o.s.	6.1	UN3123	I, II	Prohibited		
Toxic liquids, water-reactive, n.o.s. Inhalation Hazard, Packing Group I, Zone A	6.1	UN3123	I	Prohibited		
Toxic liquids, water-reactive, n.o.s. Inhalation Hazard, Packing Group I, Zone B	6.1	UN3123	I	Prohibited		
Toxic solid, corrosive, inorganic, n.o.s.	6.1	UN3290	I, II	Prohibited		
Toxic solid, inorganic, n.o.s.	6.1	UN3288	I, II	Prohibited		
Toxic solid, inorganic, n.o.s.	6.1	UN3288	Ш	Only ORM-D	6A	6A
Toxic solids, corrosive, organic, n.o.s.	6.1	UN2928	1, 11	Prohibited		
Toxic solids, flammable, organic, n.o.s.	6.1	UN2930	I, II	Prohibited		
Toxic solids, organic, n.o.s.	6.1	UN2811	I, II	Prohibited		
Toxic solids, organic, n.o.s	6.1	UN2811	Ш	Only ORM-D	6A	6A
Toxic solids, oxidizing, n.o.s.	6.1	UN3086	I, II	Prohibited		
Toxic solids, self-heating, n.o.s.	6.1	UN3124	I, II	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Toxic solids, water-reactive, n.o.s.	6.1	UN3125	I, II	Prohibited		137
Toy caps	1.4S	NA0337	П	Prohibited		
Tracers for ammunition	1.3G	UN0212	П	Prohibited		
Tracers for ammunition	1.4G	UN0306	П	Prohibited		
Tractors, see Vehicles, self-propelled						
Tri-(b-nitroxyethyl) ammonium nitrate	Forbidden			Prohibited		
Triallyl borate	6.1	UN2609	Ш	Only ORM-D	6A	6A
Triallylamine	3	UN2610	Ш	Prohibited		
Triazine pesticides, liquid, flammable, toxic, flashpoint less than 23° C	3	UN2764	I, II	Prohibited		
Triazine pesticides, liquid, toxic	6.1	UN2998	I, II	Prohibited		
Triazine pesticides, liquid, toxic	6.1	UN2998	Ш	Only ORM-D	6A	6A
Triazine pesticides, liquid, toxic, flammable, flashpoint not less than 23° C	6.1	UN2997	I, II	Prohibited		
Triazine pesticides, liquid, toxic, flammable, flashpoint not less than 23° C	6.1	UN2997	III	Only ORM-D	6A	6A
Triazine pesticides, solid, toxic	6.1	UN2763	I, II	Prohibited		
Triazine pesticides, solid, toxic	6.1	UN2763	Ш	Only ORM-D	6A	6A
Tributylamine	6.1	UN2542	П	Prohibited		
Tributylphosphane	4.2	UN3254	I	Prohibited		
mono-(Trichloro) tetra-(monopotassium dichloro)-penta-s-triazinetrione, dry with more than 39 percent available chlorine	5.1	NA2468	II	Only ORM-D	5A	5A
Trichloro-s-triazinetrione dry, with more than 39 percent available chlorine, see Trichloroisocyanuric acid, dry						
Trichloroacetic acid	8	UN1839	II	Only ORM-D	8A	8A
Trichloroacetic acid, solution	8	UN2564	II, III	Only ORM-D	8A	8A
Trichloroacetyl chloride	8	UN2442	II	Prohibited		
Trichlorbenzenes, liquid	6.1	UN2321	III	Only ORM-D	6A	6A
Trichlorobutene	6.1	UN2322	Ш	Prohibited		
1,1,1-Trichloroethane	6.1	UN2831	Ш	Only ORM-D	6A	6A
Trichloroethylene	6.1	UN1710	Ш	Only ORM-D	6A	6A
Trichloroisocyanuric acid, dry	5.1	UN2468	П	Only ORM-D	5A	5A
Trichloromethyl perchlorate	Forbidden			Prohibited		
Trichlorosilane	4.3	UN1295	I	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Tricresyl phosphate with more than 3 percent ortho isomer	6.1	UN2574	II	Prohibited		
Triethyl phosphite	3	UN2323	Ш	Only ORM-D	Prohibited	3A
Triethylamine	3	UN1296	Ш	Prohibited		
Triethylenetetramine	8	UN2259	П	Only ORM-D	8A	8A
Trifluoroacetic acid	8	UN2699	I	Prohibited		
Trifluoroacetyl chloride	2.3	UN3057	n/a	Prohibited		
Trifluorochloroethylene, inhibited	2.3	UN1082	n/a	Prohibited		
1,1,1-Trifluoroethane, compressed <i>or</i> Refrigerant gas R 143a	2.1	UN2035	n/a	Only ORM-D	Prohibited	2A
Trifluoromethane <i>or</i> Refrigerant gas R 23	2.2	UN1984	n/a	Only ORM-D	2B	2B
Trifluoromethane, refrigerated liquid	2.2	UN3136	n/a	Only ORM-D	2B	2B
2-Trifluoromethylaniline	6.1	UN2942	III	Only ORM-D	6A	6A
3-Trifluoromethylaniline	6.1	UN2948	II	Prohibited		
Triformoxime trinitrate	Forbidden			Prohibited		
Triisobutylene	3	UN2324	Ш	Only ORM-D	Prohibited	3A
Triisopropyl borate	3	UN2616	II, III	Only ORM-D	Prohibited	3A
Trimethoxysilane	6.1	NA9269	1	Prohibited		
Trimethyl borate	3	UN2416	П	Only ORM-D	Prohibited	3A
Trimethyl phosphite	3	UN2329	III	Only ORM-D	Prohibited	3A
1,3,5-Trimethyl-2,4,6-trinitroben zene	Forbidden			Prohibited		
Trimethylacetyl chloride	6.1	UN2438	I	Prohibited		
Trimethylamine, anhydrous	2.1	UN1083	n/a	Only ORM-D	Prohibited	2A
Trimethylamine, aqueous solutions with not more than 50 percent trimethylamine by mass	3	UN1297	I, II	Prohibited		
Trimethylamine, aqueous solutions with not more than 50 percent trimethylamine by mass	3	UN1297	III	Only ORM-D	Prohibited	3A
1,3,5-Trimethylbenzene	3	UN2325	III	Prohibited		
Trimethylchlorosilane	3	UN1298	П	Prohibited		
Trimethylcyclohexylamine	8	UN2326	Ш	Only ORM-D	8A	8A
Trimethylene glycol diperchlorate	Forbidden			Prohibited		
Trimethylhexamethylene diisocyanate	6.1	UN2328	Ш	Only ORM-D	6A	6A
Trimethylhexamethylenediamines	8	UN2327	Ш	Only ORM-D	8A	8A
Trimethylol nitromethane trinitrate	Forbidden			Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
2,4,6-Trinitro-1,3,5-triazido benzene (dry)	Forbidden			Prohibited		
2,4,6-Trinitro-1,3-diazobenzene	Forbidden			Prohibited		
Trinitro-meta-cresol	1.1D	UN0216	II	Prohibited		
Trinitroacetic acid	Forbidden			Prohibited		
Trinitroacetonitrile	Forbidden			Prohibited		
Trinitroamine cobalt	Forbidden			Prohibited		
Trinitroaniline or Picramide	1.1D	UN0153	Ш	Prohibited		
Trinitroanisole	1.1D	UN0213	Ш	Prohibited		
Trinitrobenzene, dry or wetted with less than 30 percent water, by mass	1.1D	UN0214	II	Prohibited		
Trinitrobenzene, wetted with not less than 30 percent water, by mass	4.1	UN1354	I	Prohibited		
Trinitrobenzenesulfonic acid	1.1D	UN0386	II	Prohibited		
Trinitrobenzoic acid, dry or wetted with less than 30 percent water, by mass	1.1D	UN0215	II	Prohibited		
Trinitrobenzoic acid, wetted with not less than 30 percent water, by mass	4.1	UN1355	I	Prohibited		
Trinitrochlorobenzene <i>or</i> Picryl chloride	1.1D	UN0155	II	Prohibited		
Trinitroethanol	Forbidden			Prohibited		
Trinitroethylnitrate	Forbidden			Prohibited		
Trinitrofluorenone	1.1D	UN0387	II	Prohibited		
Trinitromethane	Forbidden			Prohibited		
Trinitronaphthalene	1.1D	UN0217	II	Prohibited		
1,3,5-Trinitronaphthalene	Forbidden			Prohibited		
Trinitrophenetole	1.1D	UN0218	II	Prohibited		
Trinitrophenol or Picric acid, dry or wetted with less than 30 percent water, by mass	1.1D	UN0154	II	Prohibited		
Trinitrophenol, wetted with not less than 30 percent water, by mass	4.1	UN1344	I	Prohibited		
2,4,6-Trinitrophenyl guanidine (dry)	Forbidden			Prohibited		
2,4,6-Trinitrophenyl nitramine	Forbidden			Prohibited		
2,4,6-Trinitrophenyl trimethylol methyl nitramine trinitrate (dry)	Forbidden			Prohibited		
Trinitrophenylmethylnitramine <i>or</i> Tetryl	1.1D	UN0208	II	Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Trinitroresorcinol or Styphnic acid, dry or wetted with less than 20 percent water, or mixture of alcohol and water, by mass	1.1D	UN0219	II	Prohibited		
Trinitroresorcinol, wetted or Styphnic acid, wetted with not less than 20 percent water, or mixture of alcohol and water, by mass	1.1D	UN0394	II	Prohibited		
2,4,6-Trinitroso-3-methyl nitraminoanisole	Forbidden			Prohibited		
Trinitrotetramine cobalt nitrate	Forbidden			Prohibited		
Trinitrotoluene or TNT, dry or wetted with less than 30 percent water, by mass	1.1D	UN0209	II	Prohibited		
Trinitrotoluene and Trinitrobenzene mixtures or TNT and trinitrobenzene mixtures or TNT and hexanitrostilbene mixtures or Trinitrotoluene and hexanitrostilbene mixtures	1.1D	UN0388	II	Prohibited		
Trinitrotoluene mixtures containing Trinitrobenzene and Hexanitrostilbene or TNT mixtures containing trinitrobenzene and hexanitrostilbene	1.1D	UN0389	II	Prohibited		
Trinitrotoluene wetted with not less than 30 percent water, by mass	4.1	UN1356	I	Prohibited		
Tripropylamine	3	UN2260	Ш	Only ORM-D	Prohibited	3A
Tripropylene	3	UN2057	II, III	Only ORM-D	Prohibited	3A
Tris, bis-bifluoroamino diethoxy propane (TVOPA)	Forbidden			Prohibited		
Tris-(1-aziridinyl)phosphine oxide, solution	6.1	UN2501	II	Prohibited		
Tris-(1-aziridinyl)phosphine oxide, solution	6.1	UN2501	III	Only ORM-D	6A	6A
Tritonal	1.1D	UN0390	II	Prohibited		
Tungsten hexafluoride	2.3	UN2196	n/a	Prohibited		
Turpentine	3	UN1299	Ш	Only ORM-D	Prohibited	3A
Turpentine substitute	3	UN1300	I	Prohibited		
Turpentine substitute	3	UN1300	II, III	Only ORM-D	Prohibited	3A
Undecane	3	UN2330	III	Only ORM-D	Prohibited	3A
Uranium hexafluoride, fissile excepted or non-fissile	7	UN2978	n/a	Only in quantities per 347.22	Prohibited	7A

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Uranium hexafluoride, fissile with more than 1 percent U-235	7	UN2977	n/a	Only in quantities per 347.22	Prohibited	7A
Uranium metal, pyrophoric	7	UN2979	n/a	Prohibited		
Uranyl nitrate hexahydrate solution	7	UN2980	n/a	Only in quantities per 347.22	Prohibited	7A
Uranyl nitrate, solid	7	UN2981	n/a	Prohibited		
Urea hydrogen peroxide	5.1	UN1511	III	Only ORM-D	5A	5A
Urea nitrate, dry or wetted with less than 20 percent water, by mass	1.1D	UN0220	=	Prohibited		
Urea nitrate, wetted with not less than 20 percent water, by mass	4.1	UN1357	I	Prohibited		
Urea peroxide, see Urea hydrogen peroxide						
Valeraldehyde	3	UN2058	П	Only ORM-D	Prohibited	T 3A
Valeric acid, see Corrosive liquids, n.o.s.				2, 2		
Valeryl chloride	8	UN2502	П	Only ORM-D	8A	8A
Vanadium compound, n.o.s.	6.1	UN3285	I, II	Prohibited		
Vanadium compound, n.o.s.	6.1	UN3285	Ш	Only ORM-D	6A	6A
Vanadium oxytrichloride	8	UN2443	П	Only ORM-D	8A	8A
Vanadium pentoxide, <i>nonfused</i> form	6.1	UN2862	III	Only ORM-D	6A	6A
Vanadium tetrachloride	8	UN2444	I	Prohibited		
Vanadium trichloride	8	UN2475	Ш	Only ORM-D	8A	8A
Vanadyl sulfate	6.1	UN2931	П	Prohibited		
Vehicle, flammable gas powered	9	UN3166	n/a	Prohibited		
Vehicle, flammable liquid powered	9	UN3166	n/a	Prohibited		
Very signal cartridge, see Cartridges, signal						
Vinyl acetate, inhibited	3	UN1301	Ш	Only ORM-D	Prohibited	3A
Vinyl bromide, inhibited	2.1	UN1085	n/a	Only ORM-D	Prohibited	2A
Vinyl butyrate, inhibited	3	UN2838	II ,	Only ORM-D	Prohibited	3A
Vinyl chloride, inhibited <i>or</i> Vinyl chloride, stabilized	2.1	UN1086	n/a	Only ORM-D	Prohibited	2A
Vinyl chloroacetate	6.1	UN2589	II	Prohibited		
Vinyl ethyl ether, inhibited	3	UN1302	1	Prohibited		1
Vinyl fluoride, inhibited	2.1	UN1860	n/a	Only ORM-D	Prohibited	2A
Vinyl isobutyl ether, inhibited	3	UN1304	II .	Only ORM-D	Prohibited	3A
Vinyl methyl ether, inhibited	2.1	UN1087	n/a	Only ORM-D	Prohibited	2A
Vinyl nitrate polymer	Forbidden			Prohibited		

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Vinylidene chloride, inhibited	3	UN1303	I	Only ORM-D	Prohibited	3A
Vinylpyridines, inhibited	6.1	UN3073	II	Prohibited		
Vinyltoluenes, inhibited	3	UN2618	III	Only ORM-D	Prohibited	3A
Vinyltrichlorosilane, inhibited	3	UN1305	I	Prohibited		
Warheads, rocket with burster or expelling charge	1.4D	UN0370	II	Prohibited		
Warheads, rocket with burster or expelling charge	1.4F	UN0371	II	Prohibited		
Warheads, rocket with bursting charge	1.1D	UN0286	II	Prohibited		
Warheads, rocket with bursting charge	1.1F	UN0369	II	Prohibited		
Warheads, rocket with bursting charge	1.2D	UN0287	II	Prohibited		
Warheads, torpedo with bursting charge	1.1D	UN0221	II	Prohibited		
Water-reactive liquid, corrosive, n.o.s.	4.3	UN3129	I	Prohibited		
Water-reactive liquid, corrosive, n.o.s.	4.3	UN3129	II, III	Only ORM-D	Prohibited	4A
Water-reactive liquid, n.o.s.	4.3	UN3148	I, II, III	Prohibited		
Water-reactive liquid, toxic, n.o.s.	4.3	UN3130	1, 11, 111	Prohibited		
Water-reactive solid, corrosive, n.o.s.	4.3	UN3131	I	Prohibited		
Water-reactive solid, corrosive, n.o.s.	4.3	UN3131	II, III	Only ORM-D	Prohibited	4A
Water-reactive solid, flammable, n.o.s.	4.3	UN3132	I	Prohibited		
Water-reactive solid, flammable, n.o.s.	4.3	UN3132	II, III	Only ORM-D	Prohibited	4A
Water-reactive solid, n.o.s.	4.3	UN2813	Ţ	Prohibited		
Water-reactive solid, n.o.s.	4.3	UN2813	II, III	Only ORM-D	Prohibited	4A
Water-reactive solid, oxidizing, n.o.s.	4.3	UN3133	II, III	Prohibited		
Water-reactive solid, self-heating, n.o.s.	4.3	UN3135	1, 11, 111	Prohibited		
Water-reactive solid, toxic, n.o.s.	4.3	UN3134	I	Prohibited		
Water-reactive solid, toxic, n.o.s.	4.3	UN3134	II, III	Only ORM-D	Prohibited	4A
Wheel chair, electric, see Battery powered vehicle or Battery powered equipment						

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
White acid, see Hydroflouric acid mixtures etc.						
White asbestos (chrysotile, actinolite, anthophyllite, tremolite)	9	UN2590	III	Only ORM-D	9C	9C
Wood preservatives, liquid	3	UN1306	II, III	Only ORM-D	Prohibited	3A
Xanthates	4.2	UN3342	II, III	Prohibited		
Xenon, compressed	2.2	UN2036	n/a	Only ORM-D	2B	2B
Xenon, refrigerated liquid (cryogenic liquids)	2.2	UN2591	n/a	Prohibited		
Xylenes	3	UN1307	II, III	Prohibited		
Xylenols	6.1	UN2261	II	Prohibited		
Xylidines, solid	6.1	UN1711	II	Prohibited		
Xylidines, solution	6.1	UN1711	II	Prohibited		
Xylyl bromide	6.1	UN1701	II	Prohibited		
p-Xylyl diazide	Forbidden			Prohibited		
Zinc ammonium nitrite	5.1	UN1512	II	Prohibited		1
Zinc arsenate <i>or</i> Zinc arsenite <i>or</i> Zinc arsenate and zinc arsenite mixtures	6.1	UN1712	II	Prohibited		
Zinc ashes	4.3	UN1435	III	Only ORM-D	Prohibited	4A
Zinc bisulfite solution, see Bisulfites, inorganic aqueous solutions, n.o.s.						
Zinc bromate	5.1	UN2469	III	Only ORM-D	5A	5A
Zinc chlorate	5.1	UN1513	II	Only ORM-D	5A	5A
Zinc chloride, anhydrous	8	UN2331	III	Prohibited		
Zinc chloride, solution	8	UN1840	III	Only ORM-D	8A	8A
Zinc cyanide	6.1	UN1713	I	Prohibited		
Zinc dithionite <i>or</i> Zinc hydrosulfite	9	UN1931	III	Only ORM-D	9C	9C
Zinc ethyl, see Diethylzinc						
Zinc fluorosilicate	6.1	UN2855	III	Only ORM-D	6A	6A
Zinc hydrosulfite, see Zinc dithionite						
Zinc muriate solution, see Zinc chloride, solution						
Zinc nitrate	5.1	UN1514	II	Only ORM-D	5A	5A
Zinc permanganate	5.1	UN1515	II	Only ORM-D	5A	5A
Zinc peroxide	5.1	UN1516	II	Only ORM-D	5A	5A
Zinc phosphide	4.3	UN1714	I	Prohibited		
Zinc powder or Zinc dust	4.3	UN1436	I, II, III	Prohibited		
Zinc resinate	4.1	UN2714	III	Only ORM-D	Prohibited	4A

Hazardous Materials Descriptions and Proper Shipping Names (a)	Hazard Class (b)	ID Number (c)	DOT PG (d)	USPS Mailability (e)	Domestic Mail Air (f)	Domestic Mail Surface (g)
Zinc selenate, see Selenates or Selenites						
Zinc selenite, see Selenates or Selenites						
Zinc silicofluoride, see Zinc fluorosilicate						
Zirconium, dry, coiled wire, finished metal sheets, strip (thinner than 254 microns but not thinner than 18 microns)	4.1	UN2858	III	Only ORM-D	Prohibited	4A
Zirconium, dry, finished sheets, strip or coiled wire	4.2	UN2009	III	Prohibited		
Zirconium hydride	4.1	UN1437	II	Prohibited		1
Zirconium nitrate	5.1	UN2728	III	Only ORM-D	5A	5A
Zirconium picramate, dry or wetted less than 20 percent water, by mass	1.3C	UN0236	II	Prohibited		
Zirconium picramate, wetted with not less than 20 percent water, by mas	4.1	UN1517	I	Prohibited		
Zirconium powder, dry	4.2	UN2008	I, II, III	Prohibited		
Zirconium powder, wetted with not less than 25 percent water (a visible excess of water must be present) (a) mechanically produced, particle size less than 53 microns; (b) chemically produced, particle size less than 840 microns	4.1	UN1358	II	Prohibited		
Zirconium scrap	4.2	UN1932	III	Prohibited		
Zirconium sulfate	8	NA9163	III	Prohibited		
Zirconium suspended in a liquid	3	UN1308	I, II	Prohibited		
Zirconium suspended in a liquid	3	UN1308	III	Only ORM-D	Prohibited	3A
Zirconium tetrachloride	8	UN2503	III	Only ORM-D	8A	8A

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Appendix B

Numerical Listing of Proper Shipping Names by Identification (ID) Number

This appendix contains a numerical list of the United Nations (UN) and North American (NA) identification (ID) numbers for proper shipping names of the hazardous materials listed alphabetically in Appendix \underline{A} . The text appearing in *italic* type is not part of the proper shipping name of the hazardous material and is used for descriptive or references purposes only. This numerical list can be used to determine the proper shipping name of a hazardous material when the UN or NA number is known. Once the proper shipping name is known, it can be referenced back to Appendix \underline{A} to determine the mailability of the hazardous material.

ID	Proper Shipping Name
Number	(in roman type)
UN0004	Ammonium picrate, dry or wetted with less than 10 percent water, by mass
UN0005	Cartridges for weapons, with bursting charge
UN0006	Cartridges for weapons, with bursting charge
UN0007	Cartridges for weapons, with bursting charge
UN0009	Ammunition, incendiary with or without burster, expelling charge, or propelling charge
UN0010	Ammunition, incendiary with or without burster, expelling charge, or propelling charge
UN0012	Cartridges for weapons, inert projectile <i>or</i> Cartridges, small arms
UN0014	Cartridges for weapons, blank <i>or</i> Cartridges, small arms, blank
UN0015	Ammunition, smoke, with or without burster, expelling charge, or propelling charge
UN0016	Ammunition, smoke, with or without burster, expelling charge, or propelling charge
UN0018	Ammunition, tear-producing with burster, expelling charge, or propelling charge
UN0019	Ammunition, tear-producing with burster, expelling charge, or propelling charge
UN0020	Ammunition, toxic with burster, expelling charge, or propelling charge
UN0021	Ammunition, toxic with burster, expelling charge, or propelling charge
NA0027	Black powder for small arms
UN0027	Black powder <i>or</i> Gunpowder, <i>granular or as a meal</i>
UN0028	Black powder, compressed <i>or</i> Gunpowder, compressed <i>or</i> Black powder, in pellets <i>or</i> Gunpowder, in pellets
UN0029	Detonators, non-electric, for blasting
UN0030	Detonators, electric, for blasting
UN0033	Bombs, with bursting charge
UN0034	Bombs, with bursting charge
UN0035	Bombs, with bursting charge
UN0037	Bombs, photo-flash
UN0038	Bombs, photo-flash
UN0039	Bombs, photo-flash
UN0042	Boosters, without detonator
UN0043	Bursters, explosive
UN0044	Primers, cap type
UN0048	Charges, demolition
UN0049	Cartridges, flash
UN0050	Cartridges, flash
UN0054	Cartridges, signal
UN0055	Cases, cartridge, empty with primer
UN0056	Charges, depth
UN0059	Charges, shaped, without detonator
UN0060	Charges, supplementary explosive
UN0065	Cord, detonating, flexible
UN0066	Cord, igniter
UN0070	Cutters, cable, explosive
UN0072	Cyclotrimethylenetrinitramine, wetted or Cyclonite, wetted or Hexogen, wetted or RDX, wetted with not less than 15 percent water by mass
UN0073	Detonators for ammunition

ID Number	Proper Shipping Name (in roman type)
UN0074	Diazodinitrophenol, wetted with not less than 40 percent water or mixture of alcohol and water, by mass
UN0075	Diethyleneglycol dinitrate, desensitized with not less than 25 percent non-volatile water-insoluble phlegmatizer, by mass
UN0076	Dinitrophenol, dry or wetted with less than 15 percent water, by mass
UN0077	Dinitrophenolates alkali metals, dry or wetted with less than 15 percent water, by mass
UN0078	Dinitroresorcinol, dry or wetted with less than 15 percent water, by mass
UN0079	Hexanitrodiphenylamine or Dipicrylamine or Hexyl
UN0081	Explosive, blasting, type A
UN0082	Explosive, blasting, type B
UN0083	Explosive, blasting, type C
UN0084	Explosive, blasting, type D
UN0092	Flares, surface
UN0093	Flares, aerial
UN0094	Flash powder
UN0099	Fracturing devices, explosives, without detonators for oil wells
UN0101	Fuse, non-detonating (instantaneous or quickmatch)
UN0102	Cord detonating or Fuse detonating metal clad
UN0103	Fuse, igniter tubular metal clad
UN0104	Cord, detonating, mild effect or Fuse, detonating, mild effect metal clad
UN0105	Fuse, safety
UN0106	Fuzes, detonating
UN0107	Fuzes, detonating
UN0110	Grenades, practice, hand or rifle
UN0113	Guanyl nitrosaminoguanylidene hydrazine, wetted with not less than 30 percent water, by mass
UN0114	Guanyl nitrosaminoguanyltetrazene, wetted or Tetrazene, wetted with not less than 30 percent water or mixture of alcohol and water, by mass
UN0118	Hexolite, or Hexotol dry or wetted with less than 15 percent water, by mass
UN0121	Igniters
NA0124	Jet, perforating guns, charged oil well, with detonator
UN0124	Jet, perforating guns, charged oil well, without detonator
UN0129	Lead azide, wetted with not less than 20 percent water or mixture of alcohol and water, by mass
UN0130	Lead styphnate, wetted or Lead trinitroresorcinate, wetted with not less than 20 percent water or mixture of alcohol and water, by mass
UN0131	Lighters, fuse
UN0132	Deflagrating metal salts of aromatic nitroderivatives, n.o.s.
UN0133	Mannitol hexanitrate, wetted or Nitromannite, wetted with not less than 40 percent water, or mixture of alcohol and water, by mass
UN0135	Mercury fulminate, wetted with not less than 20 percent water, or mixture of alcohol and water, by mass
UN0136	Mines with bursting charge
UN0137	Mines with bursting charge
UN0138	Mines with bursting charge
UN0143	Nitroglycerin, desensitized with not less than 40 percent non-volatile water insoluble phlegmatizer, by mass

ID Number	Proper Shipping Name (in roman type)
UN0144	Nitroglycerin, solution in alcohol, with more than 1 percent but not more than 10 percent nitroglycerin
UN0146	Nitrostarch, dry or wetted with less than 20 percent water, by mass
UN0147	Nitro urea
UN0150	Pentaerythrite tetranitrate, wetted <i>or</i> Pentaerythritol tetranitrate, wetted <i>or</i> PETN, wetted <i>with not less than 25 percent water, by mass, or</i> Pentaerythrite tetranitrate, <i>or</i> Pentaerythritol tetranitrate, or PETN, desensitized <i>with not less than 15 percent</i>
UN0151	Pentolite, dry or wetted with less than 15 percent water, by mass
UN0153	Trinitroaniline <i>or</i> Picramide
UN0154	Trinitrophenol or Picric acid, dry or wetted with less than 30 percent water, by mass
UN0155	Trinitrochlorobenzene or Picryl chloride
UN0159	Powder cake, wetted or Powder paste, wetted with not less than 25 percent water, by mass
UN0160	Powder, smokeless
UN0161	Powder, smokeless
UN0167	Projectiles, with bursting charge
UN0168	Projectiles, with bursting charge
UN0169	Projectiles, with bursting charge
UN0171	Ammunition, illuminating with or without burster, expelling charge, or propelling charge
UN0173	Release devices, explosive
UN0174	Rivets, explosive
UN0180	Rockets, with bursting charge
UN0181	Rockets, with bursting charge
UN0182	Rockets, with bursting charge
UN0183	Rockets, with inert head
UN0186	Rocket motors
UN0190	Samples, explosive, other than initiating explosives
UN0191	Signal devices, hand
UN0192	Signals, railway track, explosive
UN0193	Signals, railway track, explosive
UN0194	Signals, distress, ship
UN0195	Signals, distress, ship
UN0196	Signals, smoke
UN0197	Signals, smoke
UN0204	Sounding devices, explosive
UN0207	Tetranitroaniline
UN0208	Trinitrophenylmethylnitramine or Tetryl
UN0209	Trinitrotoluene or TNT, dry or wetted with less than 30 percent water, by mass
UN0212	Tracers for ammunition
UN0213	Trinitroanisole
UN0214	Trinitrobenzene, dry or wetted with less than 30 percent water, by mass
UN0215	Trinitrobenzoic acid, dry or wetted with less than 30 percent water, by mass
UN0216	Trinitro-meta-cresol
UN0217	Trinitronaphthalene
UN0218	Trinitrophenetole

ID	Proper Shipping Name
Number	(in roman type)
UN0219	Trinitroresorcinol or Styphnic acid, dry or wetted with less than 20 percent water, or mixture of alcohol and water, by mass
UN0220	Urea nitrate, dry or wetted with less than 20 percent water, by mass
UN0221	Warheads, torpedo with bursting charge
UN0222	Ammonium nitrate, with more than 0.2 percent combustible substances, including any organic substance calculated as carbon, to the exclusion of any other added substance
UN0224	Barium azide, dry or wetted with less than 50 percent water, by mass
UN0225	Boosters with detonator
UN0226	Cyclotetramethylenetetranitramine, wetted or HMX, wetted or Octogen, wetted with not less than 15 percent water, by mass
UN0234	Sodium dinitro-o-cresolate, dry or wetted with less than 15 percent water, by mass
UN0235	Sodium picramate, dry or wetted with less than 20 percent water, by mass
UN0236	Zirconium picramate, dry or wetted less than 20 percent water, by mass
UN0237	Charges, shaped, flexible, linear
UN0238	Rockets, line-throwing
UN0240	Rockets, line-throwing
UN0241	Explosive, blasting, type E
UN0242	Charges, propelling, for cannon
UN0243	Ammunition, incendiary, white phosphorus, with burster, expelling charge, or propelling charge
UN0244	Ammunition, incendiary, white phosphorus, with burster, expelling charge, or propelling charge
UN0245	Ammunition smoke, white phosphorus with burster, expelling charge, or propelling charge
UN0246	Ammunition, smoke, white phosphorus with burster, expelling charge, or propelling charge
UN0247	Ammunition, incendiary liquid or gel, with burster, expelling charge, or propelling charge
UN0248	Contrivances, water-activated, with burster, expelling charge, or propelling charge
UN0249	Contrivances, water-activated, with burster, expelling charge, or propelling charge
UN0250	Rocket motors with hypergolic liquids with or without an expelling charge
UN0254	Ammunition, illuminating with or without burster, expelling charge, or propelling charge
UN0255	Detonators, electric, for blasting
UN0257	Fuzes, detonating
UN0266	Octolite or Octol, dry or wetted with less than 15 percent water, by mass
UN0267	Detonators, non-electric, for blasting
UN0268	Boosters with detonator
UN0271	Charges, propelling
UN0272	Charges, propelling
UN0275	Cartridges, power device
NA0276	Model rocket motor
UN0276	Cartridges, power device
UN0277	Cartridges, oil well
UN0278	Cartridges, oil well
UN0279	Charges, propelling, for cannon
UN0280	Rocket motors
UN0281	Rocket motors
UN0282	Nitroguanidine or Picrite, dry or wetted with less than 20 percent water, by mass
UN0283	Boosters, without detonator
UN0284	Grenades, hand or rifle, with bursting charge

ID	Proper Shipping Name
Number	(in roman type)
UN0285	Grenades, hand or rifle, with bursting charge
UN0286	Warheads, rocket with bursting charge
UN0287	Warheads, rocket with bursting charge
UN0288	Charges, shaped, flexible, linear
UN0289	Cord, detonating, flexible
UN0290	Cord, detonating or Fuse, detonating metal clad
UN0291	Bombs, with bursting charge
UN0292	Grenades, hand or rifle, with bursting charge
UN0293	Grenades, hand or rifle, with bursting charge
UN0294	Mines with bursting charge
UN0295	Rockets, with bursting charge
UN0296	Sounding devices, explosive
UN0297	Ammunition, illuminating with or without burster, expelling charge, or propelling charge
UN0299	Bombs, photo-flash
UN0300	Ammunition, incendiary with or without burster, expelling charge, or propelling charge
UN0301	Ammunition, tear-producing with burster, expelling charge, or propelling charge
UN0303	Ammunition, smoke, with or without burster, expelling charge, or propelling charge
UN0305	Flash powder
UN0306	Tracers for ammunition
UN0312	Cartridges, signal
UN0313	Signals, smoke
UN0314	Igniters
UN0315	Igniters
UN0316	Fuzes, igniting
UN0317	Fuzes, igniting
UN0318	Grenades, practice, hand or rifle
UN0319	Primers, tubular
UN0320	Primers, tubular
UN0321	Cartridges for weapons, with bursting charge
UN0322	Rocket motors with hypergolic liquids with or without an expelling charge
NA0323	Model rocket motor
UN0323	Cartridges, power device
UN0324	Projectiles, with bursting charge
UN0325	Igniters
UN0326	Cartridges for weapons, blank
UN0327	Cartridges for weapons, blank or Cartridges, small arms, blank
UN0328	Cartridges for weapons, inert projectile
UN0329	Torpedoes with bursting charge
UN0330	Torpedoes with bursting charge
NA0331	Ammonium nitrate-fuel oil mixture containing only prilled ammonium nitrate and fuel oil
UN0331	Explosive, blasting, type B or Agent blasting, Type B
UN0332	Explosive, blasting, type E or Agent blasting, Type E
UN0333	Fireworks
UN0334	Fireworks

works works caps works ridges for weapons, blank or Cartridges, small arms, blank ridges for weapons, inert projectile or Cartridges, small arms occllulose, dry or wetted with less than 25 percent water (or alcohol), by mass occllulose, unmodified or plasticized with less than 18 percent plasticizing substance, by mass
works caps works ridges for weapons, blank or Cartridges, small arms, blank ridges for weapons, inert projectile or Cartridges, small arms pocellulose, dry or wetted with less than 25 percent water (or alcohol), by mass
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ridges for weapons, blank or Cartridges, small arms, blank ridges for weapons, inert projectile or Cartridges, small arms ocellulose, dry or wetted with less than 25 percent water (or alcohol), by mass
ridges for weapons, inert projectile or Cartridges, small arms ocellulose, dry or wetted with less than 25 percent water (or alcohol), by mass
ocellulose, dry or wetted with less than 25 percent water (or alcohol), by mass
ocellulose, unmodified or plasticized with less than 18 percent plasticizing substance, by mass
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ocellulose, wetted with not less than 25 percent alcohol, by mass
ocellulose, plasticized with not less than 18 percent plasticizing substance, by mass
ectiles, with bursting charge
ectiles, inert with tracer
ectiles, with burster or expelling charge
ectiles, with burster or expelling charge
ridges for weapons, with bursting charge
nades, empty primed
eles, explosive, n.o.s.
stances, explosive, n.o.s.
stances, explosive, n.o.s.
stances, explosive, n.o.s.
onator assemblies, non-electric for blasting
onator assemblies, non-electric for blasting
nunition, practice
nunition, proof
onators for ammunition
onators for ammunition
onators for ammunition
es, detonating
es, igniting
heads, rocket with bursting charge
heads, rocket with burster or expelling charge
heads, rocket with burster or expelling charge
nades, practice, hand or rifle
al devices, hand
nding devices, explosive
nding devices, explosive
ners, tubular

ID Number	Proper Shipping Name (in roman type)
UN0377	Primers, cap type
UN0378	Primers, cap type
UN0379	Cases, cartridges, empty with primer
UN0380	Articles, pyrophoric
UN0381	Cartridges, power device
UN0382	Components, explosive train, n.o.s.
UN0383	Components, explosive train, n.o.s.
UN0384	Components, explosive train, n.o.s.
UN0385	5-Nitrobenzotriazol
UN0386	Trinitrobenzenesulfonic acid
UN0387	Trinitrofluorenone
UN0388	Trinitrotoluene and Trinitrobenzene mixtures or TNT and trinitrobenzene mixtures or TNT and hexanitrostilbene mixtures or Trinitrotoluene and hexanitrostilbene mixtures
UN0389	Trinitrotoluene mixtures containing Trinitrobenzene and Hexanitrostilbene or TNT mixtures containing trinitrobenzene and hexanitrostilbene
UN0390	Tritonal
UN0391	RDX and HMX mixtures, wetted with not less than 15 percent water by mass or RDX and HMX mixtures, desensitized with not less than 10 percent phlegmatizer by mass
UN0392	Hexanitrostilbene
UN0393	Hexotonal
UN0394	Trinitroresorcinol, wetted or Styphnic acid, wetted with not less than 20 percent water, or mixture of alcohol and water, by mass
UN0395	Rocket motors, liquid fueled
UN0396	Rocket motors, liquid fueled
UN0397	Rockets, liquid fueled with bursting charge
UN0398	Rockets, liquid fueled with bursting charge
UN0399	Bombs with flammable liquid, with bursting charge
UN0400	Bombs with flammable liquid, with bursting charge
UN0401	Dipicryl sulfide, dry or wetted with less than 10 percent water, by mass
UN0402	Ammonium perchlorate
UN0403	Flares, aerial
UN0404	Flares, aerial
UN0405	Cartridges, signal
UN0406	Dinitrosobenzene
UN0407	Tetrazol-1-acetic acid
UN0408	Fuzes, detonating, with protective features
UN0409	Fuzes, detonating, with protective features
UN0410	Fuzes, detonating, with protective features
UN0411	Pentaerythrite tetranitrate or Pentaerythritol tetranitrate or PETN, with not less than 7 percent wax by mass
UN0412	Cartridges for weapons, with bursting charge
UN0413	Cartridges for weapons, blank
UN0414	Charges, propelling, for cannon
UN0415	Charges, propelling
UN0417	Cartridges for weapons, inert projectile or Cartridges, small arms

ID	Proper Shipping Name
Number	(in roman type)
UN0418	Flares, surface
UN0419	Flares, surface
UN0420	Flares, aerial
UN0421	Flares, aerial
UN0424	Projectiles, inert with tracer
UN0425	Projectiles, inert with tracer
UN0426	Projectiles, with burster or expelling charge
UN0427	Projectiles, with burster or expelling charge
UN0428	Articles, pyrotechnic for technical purposes
UN0429	Articles, pyrotechnic for technical purposes
UN0430	Articles, pyrotechnic for technical purposes
UN0431	Articles, pyrotechnic for technical purposes
UN0432	Articles, pyrotechnic for technical purposes
UN0433	Powder cake, wetted or Powder paste, wetted with not less than 17 percent alcohol by mass
UN0434	Projectiles, with burster or expelling charge
UN0435	Projectiles, with burster or expelling charge
UN0436	Rockets, with expelling charge
UN0437	Rockets, with expelling charge
UN0438	Rockets, with expelling charge
UN0439	Charges, shaped, without detonator
UN0440	Charges, shaped, without detonator
UN0441	Charges, shaped, without detonator
UN0442	Charges, explosive, commercial without detonator
UN0443	Charges, explosive, commercial without detonator
UN0444	Charges, explosive, commercial without detonator
UN0445	Charges, explosive, commercial without detonator
UN0446	Cases, combustible, empty, without primer
UN0447	Cases, combustible, empty, without primer
UN0448	5-Mercaptotetrazol-1-acetic acid
UN0449	Torpedoes, liquid fueled, with or without bursting charge
UN0450	Torpedoes, liquid fueled, with inert head
UN0451	Torpedoes with bursting charge
UN0452	Grenades, practice, hand or rifle
UN0453	Rockets, line-throwing
UN0454	Igniters
UN0455	Detonators, non-electric, for blasting
UN0456	Detonators, electric, for blasting
UN0457	Charges, bursting, plastics bonded
UN0458	Charges, bursting, plastics bonded
UN0459	Charges, bursting, plastics bonded
UN0460	Charges, bursting, plastics bonded
UN0461	Components, explosive train, n.o.s.
UN0462	Articles, explosive, n.o.s.
UN0463	Articles, explosive, n.o.s.

ID Number	Proper Shipping Name (in roman type)
UN0464	Articles, explosive, n.o.s.
UN0465	Articles, explosive, n.o.s.
UN0466	Articles, explosive, n.o.s.
UN0467	Articles, explosive, n.o.s.
UN0468	Articles, explosive, n.o.s.
UN0469	Articles, explosive, n.o.s.
UN0470	Articles, explosive, n.o.s.
UN0471	Articles, explosive, n.o.s.
UN0472	Articles, explosive, n.o.s.
NA0473	Barium styphnate or Lead mononitroresorcinate
UN0473	Substances, explosive, n.o.s.
UN0474	Substances, explosive, n.o.s.
UN0475	Substances, explosive, n.o.s.
UN0476	Substances, explosive, n.o.s.
UN0477	Substances, explosive, n.o.s.
UN0478	Substances, explosive, n.o.s.
UN0479	Substances, explosive, n.o.s.
UN0480	Substances, explosive, n.o.s.
UN0481	Substances, explosive, n.o.s.
UN0482	Substances, explosive, very insensitive, n.o.s., or Substances, EVI, n.o.s.
UN0483	Cyclotrimethylenetrinitramine, desensitized or Cyclonite, desensitized or Hexogen, desensitized or RDX, desensitized
UN0484	Cyclotetramethylenetetranitramine, desensitized or Octogen, desensitized or HMX, desensitized
UN0485	Substances, explosive, n.o.s.
UN0486	Articles, explosive, extremely insensitive or Articles, EEI
UN0487	Signals, smoke
UN0488	Ammunition, practice
UN0489	Dinitroglycoluril or Dingu
UN0490	Nitrotriazolone or NTO
UN0491	Charges, propelling
UN0492	Signals, railway track, explosive
UN0493	Signals, railway track, explosive
NA0494	Jet, perforating guns, charged oil well, with detonator
UN0494	Jet, perforating guns, charged oil well, without detonator
UN0495	Propellant, liquid
UN0496	Octonal
UN0497	Propellant, liquid
UN0498	Propellant, solid
UN0499	Propellant, solid
UN0500	Detonator assemblies, non-electric for blasting
UN1001	Acetylene, dissolved
UN1002	Air, compressed
UN1003	Air, refrigerated liquid, (cryogenic liquid) or Air, refrigerated liquid (cryogenic liquid) non-pressurized
UN1005	Ammonia, anhydrous

ID Number	Proper Shipping Name (in roman type)
UN1006	Argon, compressed
UN1008	Boron trifluoride, compressed
UN1009	Bromotrifluoromethane or Refrigerant gas, R 13B1
UN1010	Butadienes, inhibited
UN1011	Butane see also Petroleum gases, liquefied
UN1012	Butylene see also Petroleum gases, liquefied
UN1013	Carbon dioxide
UN1014	Carbon dioxide and oxygen mixtures, compressed
UN1015	Carbon dioxide and nitrous oxide mixtures
UN1016	Carbon monoxide, compressed
UN1017	Chlorine
UN1018	Chlorodifluoromethane or Refrigerant gas R 22
UN1020	Chloropentafluoroethane <i>or</i> Refrigerant gas R 115
UN1021	1-Chloro-1,2,2,2-tetrafluoroethane <i>or</i> Refrigerant gas R 124
UN1022	Chlorotrifluoromethane <i>or</i> Refrigerant gas R 13
UN1023	Coal gas, compressed
UN1026	Cyanogen
UN1027	Cyclopropane
UN1028	Dichlorodifluoromethane <i>or</i> Refrigerant gas R 12
UN1029	Dichlorofluoromethane <i>or</i> Refrigerant gas R 21
UN1030	1,1-Difluoroethane <i>or</i> Refrigerant gas R 152a
UN1032	Dimethylamine, anhydrous
UN1033	Dimethyl ether
UN1035	Ethane
UN1036	Ethylamine
UN1037	Ethyl chloride
UN1038	Ethylene, refrigerated liquid (cryogenic liquid)
UN1039	Ethyl methyl ether
UN1040	Ethylene oxide or Ethylene oxide with nitrogen up to a total pressure of 1MPa (10 bar) at 50° C
UN1041	Ethylene oxide and carbon dioxide mixtures with more than 9 percent but not more than 87 percent ethylene oxide
UN1043	Fertilizer ammoniating solution with free ammonia
UN1044	Fire extinguishers containing compressed or liquefied gas
UN1045	Fluorine, compressed
UN1046	Helium, compressed
UN1048	Hydrogen bromide, anhydrous
UN1049	Hydrogen, compressed
UN1050	Hydrogen chloride, anhydrous
UN1051	Hydrogen cyanide, stabilized with less than 3 percent water
UN1052	Hydrogen fluoride, anhydrous
UN1053	Hydrogen sulfide
UN1055	Isobutylene see also Petroleum gases, liquefied
UN1056	Krypton, compressed
UN1057	Lighters or Lighter refills cigarettes, containing flammable gas

ID Number	Proper Shipping Name (in roman type)
UN1058	Liquified gases, nonflammable charged with nitrogen, carbon dioxide, or air
UN1060	Methyl acetylene and propadiene mixtures, stabilized
UN1061	Methylamine, anhydrous
UN1062	Methyl bromide
UN1063	Methyl chloride, or Refrigerant gas R 40
UN1064	Methyl mercaptan
UN1065	Neon, compressed
UN1066	Nitrogen, compressed
UN1067	Dinitrogen tetroxide
UN1069	Nitrosyl chloride
UN1070	Nitrous oxide
UN1071	Oil gas, compressed
UN1072	Oxygen, compressed
UN1073	Oxygen, refrigerated liquid (cryogenic liquid)
UN1075	Petroleum gases, liquefied or Liquefied petroleum gas
UN1076	Phosgene
UN1077	Propylene see also Petroleum gases, liquefied
UN1078	Refrigerant gases, n.o.s.
UN1079	Sulfur dioxide
UN1080	Sulfur hexafluoride
UN1081	Tetrafluoroethylene, inhibited
UN1082	Trifluorochloroethylene, inhibited
UN1083	Trimethylamine, anhydrous
UN1085	Vinyl bromide, inhibited
UN1086	Vinyl chloride, inhibited or Vinyl chloride, stabilized
UN1087	Vinyl methyl ether, inhibited
UN1088	Acetal
UN1089	Acetaldehyde
UN1090	Acetone
UN1091	Acetone oils
UN1092	Acrolein, inhibited
UN1093	Acrylonitrile, inhibited
UN1098	Allyl alcohol
UN1099	Allyl bromide
UN1100	Allyl chloride
UN1104	Amyl acetates
UN1105	Pentanols
UN1106	Amylamines
UN1107	Amyl chlorides
UN1108	1-Pentene (n-amylene)
UN1109	Amyl formates
UN1110	n-Amyl methyl ketone
UN1111	Amyl mercaptans
UN1112	Amyl nitrate

ID Number	Proper Shipping Name (in roman type)
UN1113	Amyl nitrites
UN1114	Benzene
UN1120	Butanols
UN1123	Butyl acetates
UN1125	n-Butylamine
UN1126	1-Bromobutane
UN1127	Chlorobutanes
UN1128	n-Butyl formate
UN1129	Butyraldehyde
UN1130	Camphor oil
UN1131	Carbon disulfide
UN1133	Adhesives, containing a flammable liquid
UN1134	Chlorobenzene
UN1135	Ethylene chlorohydrin
UN1136	Coal tar distillates, flammable
UN1139	Coating solution (includes surface treatments or coatings used for industrial or other purposes such as vehicle undercoating, drum or barrel lining)
UN1143	Crotonaldehyde, stabilized
UN1144	Crotonylene
UN1145	Cyclohexane
UN1146	Cyclopentane
UN1147	Decahydronaphthalene
UN1148	Diacetone alcohol
UN1149	Dibutyl ethers
UN1150	1,2-Dichloroethylene
UN1152	Dichloropentanes
UN1153	Ethylene glycol diethyl ether
UN1154	Diethylamine
UN1155	Diethyl ether or Ethyl ether
UN1156	Diethyl ketone
UN1157	Diisobutyl ketone
UN1158	Diisopropylamine
UN1159	Diisopropyl ether
UN1160	Dimethylamine solution
UN1161	Dimethyl carbonate
UN1162	Dimethyldichlorosilane
UN1163	Dimethylhydrazine, unsymmetrical
UN1164	Dimethyl sulfide
UN1165	Dioxane
UN1166	Dioxolane
UN1167	Divinyl ether, inhibited
UN1169	Extracts, aromatic, liquid
UN1170	Ethanol or Ethyl alcohol or Ethanol solutions or Ethyl alcohol solutions
UN1171	Ethylene glycol monoethyl ether

ID Number	Proper Shipping Name (in roman type)
UN1172	Ethylene glycol monoethyl ether acetate
UN1173	Ethyl acetate
UN1175	Ethylbenzene
UN1176	Ethyl borate
UN1177	2-Ethylbutyl acetate
UN1178	2-Ethylbutyraldehyde
UN1179	Ethyl butyl ether
UN1180	Ethyl butyrate
UN1181	Ethyl chloroacetate
UN1182	Ethyl chloroformate
UN1183	Ethyldichlorosilane
UN1184	Ethylene dichloride
UN1185	Ethyleneimine, inhibited
UN1188	Ethylene glycol monomethyl ether
UN1189	Ethylene glycol monomethyl ether acetate
UN1190	Ethyl formate
UN1191	Octyl aldehydes
UN1192	Ethyl lactate
UN1193	Ethyl methyl ketone or Methyl ethyl ketone
UN1194	Ethyl nitrate solutions
UN1195	Ethyl propionate
UN1196	Ethyltrichlorosilane
UN1197	Extracts, flavoring, liquid
UN1198	Formaldehyde, solutions, flammable
UN1199	Furaldehydes
UN1201	Fusel oil
UN1202	Gas oil or Diesel fuel or Heating oil, light
NA1203	Gasohol gasoline mixed with ethyl alcohol, with not more than 20 percent alcohol
UN1203	Gasoline
UN1204	Nitroglycerin, solution in alcohol, with not more than 1 percent nitroglycerin
UN1206	Heptanes
UN1207	Hexaldehyde
UN1208	Hexanes
UN1210	Printing ink, flammable
UN1212	Isobutanol or Isobutyl alcohol
UN1213	Isobutyl acetate
UN1214	Isobutylamine
UN1216	Isooctenes
UN1218	Isoprene, inhibited
UN1219	Isopropanol or Isopropyl alcohol
UN1220	Isopropyl acetate
UN1221	Isopropylamine
UN1222	Isopropyl nitrate
UN1223	Kerosene

ID Number	Proper Shipping Name (in roman type)
UN1224	Ketones, liquid, n.o.s.
NA1226	Lighters for cigars, cigarettes, etc., with lighter fluids
UN1228	Mercaptans, liquid, flammable, toxic, n.o.s. or Mercaptan mixtures, liquid, flammable, toxic, n.o.s.
UN1229	Mesityl oxide
UN1230	Methanol
UN1231	Methyl acetate
UN1233	Methylamyl acetate
UN1234	Methylal
UN1235	Methylamine, aqueous solution
UN1237	Methyl butyrate
UN1238	Methyl chloroformate
UN1239	Methyl chloromethyl ether
UN1242	Methyldichlorosilane
UN1243	Methyl formate
UN1244	Methylhydrazine
UN1245	Methyl isobutyl ketone
UN1246	Methyl isopropenyl ketone, inhibited
UN1247	Methyl methacrylate monomer, inhibited
UN1248	Methyl propionate
UN1249	Methyl propyl ketone
UN1250	Methyltrichlorosilane
UN1251	Methyl vinyl ketone, stabilized
UN1259	Nickel carbonyl
UN1261	Nitromethane
UN1262	Octanes
UN1263	Paint including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler, and liquid lacquer base, or Paint related material including paint thinning, drying, removing, or reducing compound
UN1264	Paraldehyde
UN1265	Pentanes
UN1266	Perfumery products with flammable solvents
UN1267	Petroleum crude oil
UN1268	Petroleum distillates, n.o.s. or Petroleum products, n.o.s.
NA1270	Petroleum oil
UN1272	Pine oil
UN1274	n-Propanol <i>or</i> Propyl alcohol, normal
UN1275	Propionaldehyde
UN1276	n-Propyl acetate
UN1277	Propylamine
UN1278	Propyl chloride
UN1279	1,2-Dichloropropane
UN1280	Propylene oxide
UN1281	Propyl formates
UN1282	Pyridine

ID Number	Proper Shipping Name (in roman type)
UN1286	Rosin oil
UN1287	Rubber solution
UN1288	Shale Oil
UN1289	Sodium methylate solutions in alcohol
UN1292	Tetraethyl silicate
UN1293	Tinctures, medicinal
UN1294	Toluene
UN1295	Trichlorosilane
UN1296	Triethylamine
UN1297	Trimethylamine, aqueous solutions with not more than 50 percent trimethylamine by mass
UN1298	Trimethylchlorosilane
UN1299	Turpentine
UN1300	Turpentine substitute
UN1301	Vinyl acetate, inhibited
UN1302	Vinyl ethyl ether, inhibited
UN1303	Vinylidene chloride, inhibited
UN1304	Vinyl isobutyl ether, inhibited
UN1305	Vinyltrichlorosilane, inhibited
UN1306	Wood preservatives, liquid
UN1307	Xylenes
UN1308	Zirconium suspended in a liquid
UN1309	Aluminum powder, coated
UN1310	Ammonium picrate, wetted with not less than 10 percent water, by mass
UN1312	Borneol
UN1313	Calcium resinate
UN1314	Calcium resinate, fused
UN1318	Cobalt resinate, precipitated
UN1320	Dinitrophenol, wetted with not less than 15 percent water, by mass
UN1321	Dinitrophenolates, wetted with not less than 15 percent water, by mass
UN1322	Dinitroresorcinol, wetted with not less than 15 percent water, by mass
UN1323	Ferrocerium
UN1324	Films, nitrocellulose base, gelatine coated (except scrap)
NA1325	Fusee (railway or highway) or Medicines, flammable, solid, n.o.s.
UN1325	Flammable solids, organic, n.o.s.
UN1326	Hafnium powder, wetted with not less than 25 percent water (a visible excess of water must be present) (a) mechanically produced, particle size less than 53 microns; (b) chemically produced, particle size less than 840 microns
UN1328	Hexamethylenetetramine
UN1330	Manganese resinate
UN1331	Matches, strike anywhere
UN1332	Metaldehyde
UN1333	Cerium, slabs, ingots, or rods
UN1334	Naphthalene, crude or Naphthalene, refined
UN1336	Nitroguanidine, wetted or Picrite, wetted with not less than 20 percent water, by mass

ID Number	Proper Shipping Name (in roman type)
UN1337	Nitrostarch, wetted with not less than 20 percent water, by mass
UN1338	Phosphorus, amorphous
UN1339	Phosphorus heptasulfide, free from yellow or white phosphorus
UN1340	Phosphorus pentasulfide, free from yellow or white phosphorus
UN1341	Phosphorus sesquisulfide, free from yellow or white phosphorus
UN1343	Phosphorus trisulfide, free from yellow or white phosphorus
NA1344	Picric acid, wet, with not less than 10 percent water
UN1344	Trinitrophenol, wetted with not less than 30 percent water, by mass
UN1346	Silicon powder, amorphous
UN1347	Silver picrate, wetted with not less than 30 percent water, by mass
UN1348	Sodium dinitro-o-cresolate, wetted with not less than 15 percent water, by mass
UN1349	Sodium picramate, wetted with not less than 20 percent water, by mass
NA1350	Sulfur
UN1350	Sulfur
UN1352	Titanium powder, wetted with not less than 25 percent water (a visible excess of water must be present) (a) mechanically produced, particle size less than 53 microns; (b) chemically produced, particle size less than 840 microns
UN1353	Fibers or Fabrics impregnated with weakly nitrated nitrocellulose, n.o.s.
UN1354	Trinitrobenzene, wetted with not less than 30 percent water, by mass
UN1355	Trinitrobenzoic acid, wetted with not less than 30 percent water, by mass
UN1356	Trinitrotoluene wetted with not less than 30 percent water, by mass
UN1357	Urea nitrate, wetted with not less than 20 percent water, by mass
UN1358	Zirconium powder, wetted with not less than 25 percent water (a visible excess of water must be present) (a) mechanically produced, particle size less than 53 microns; (b) chemically produced, particle size less than 840 microns
UN1360	Calcium phosphide
NA1361	Charcoal briquettes, shell, screenings, wood, etc.
UN1361	Carbon, animal or vegetable origin
UN1362	Carbon, activated
UN1363	Copra
UN1364	Cotton waste, oily
NA1365	Cotton
UN1365	Cotton, wet
UN1366	Diethylzinc
UN1369	p-Nitrosodimethylaniline
UN1370	Dimethylzinc
UN1373	Fibers or Fabrics, animal or vegetable or Synthetic, n.o.s. with animal or vegetable oil
UN1374	Fish meal, unstabilized or Fish scrap, unstabilized
UN1376	Iron oxide, spent, or Iron sponge, spent obtained from coal gas purification
UN1378	Metal catalyst, wetted with a visible excess of liquid
UN1379	Paper, unsaturated oil treated incompletely dried (including carbon paper)
UN1380	Pentaporane
UN1381	Phosphorus, white dry or Phosphorus, white, under water or Phosphorus white, in solution or Phosphorus, yellow dry or Phosphorus, yellow, under water or Phosphorus, yellow, in solution
UN1382	Potassium sulfide, anhydrous or Potassium sulfide with less than 30 percent water of crystallization

ID Number	Proper Shipping Name (in roman type)
UN1383	Pyrophoric metals, n.o.s. <i>or</i> Pyrophoric alloys, n.o.s.
UN1384	Sodium dithionite or Sodium hydrosulfite
UN1385	Sodium sulfide, anhydrous or Sodium sulfide with less than 30 percent water of crystallization
UN1386	Seed cake, containing vegetable oil solvent extractions and expelled seeds, with not more than 10 percent of oil and when the amount of moisture is higher than 11 percent, with not more than 20 percent of oil and moisture combined or Seed cake with more than 1.5 percent oil and not more than 11 percent moisture
UN1389	Alkali metal amalgam, liquid or Alkali metal amalgam, solid
UN1390	Alkali metal amides
UN1391	Alkali metal dispersions, or Alkaline earth metal dispersions
UN1392	Alkaline earth metal amalgams
UN1393	Alkaline earth metal alloys, n.o.s.
UN1394	Aluminum carbide
UN1395	Aluminum ferrosilicon powder
UN1396	Aluminum powder, uncoated
UN1397	Aluminum phosphide
UN1398	Aluminum silicon powder, uncoated
UN1400	Barium
UN1401	Calcium
UN1402	Calcium carbide
UN1403	Calcium cyanamide with more than 0.1 percent of calcium carbide
UN1404	Calcium hydride
UN1405	Calcium silicide
UN1407	Cesium or Caesium
UN1408	Ferrosilicon, with 30 percent or more but less than 90 percent silicon
UN1409	Metal hydrides, water-reactive, n.o.s.
UN1410	Lithium aluminum hydride
UN1411	Lithium aluminum hydride, ethereal
UN1413	Lithium borohydride
UN1414	Lithium hydride
UN1415	Lithium
UN1417	Lithium silicon
UN1418	Magnesium, powder or Magnesium alloys, powder
UN1419	Magnesium aluminum phosphide
UN1420	Potassium, metal alloys
UN1421	Alkali metal alloys, liquid, n.o.s.
UN1422	Potassium sodium alloys
UN1423	Rubidium
UN1426	Sodium borohydride
UN1427	Sodium hydride
UN1428	Sodium
UN1431	Sodium methylate
UN1431	Sodium phosphide
UN1432	Stannic phosphide
UN1435	Zinc ashes

ID Number	Proper Shipping Name (in roman type)
UN1436	Zinc powder or Zinc dust
UN1437	Zirconium hydride
UN1438	Aluminum, nitrate
UN1439	Ammonium dichromate
UN1442	Ammonium perchlorate
UN1444	Ammonium persulfate
UN1445	Barium chlorate
UN1446	Barium nitrate
UN1447	Barium perchlorate
UN1448	Barium permanganate
UN1449	Barium peroxide
UN1450	Bromates, inorganic, n.o.s.
UN1451	Cesium nitrate or Caesium nitrate
UN1452	Calcium chlorate
UN1453	Calcium chlorite
UN1454	Calcium nitrate
UN1455	Calcium perchlorate
UN1456	Calcium permanganate
UN1457	Calcium peroxide
UN1458	Chlorate and borate mixtures
UN1459	Chlorate and magnesium chloride mixtures
UN1461	Chlorates, inorganic, n.o.s.
UN1462	Chlorites, inorganic, n.o.s.
NA1463	Chromic acid, solid
UN1463	Chromium trioxide, anhydrous
UN1465	Didymium nitrate
UN1466	Ferric nitrate
UN1467	Guanidine nitrate
UN1469	Lead nitrate
UN1470	Lead perchlorate, solid or Lead perchlorate, solution
UN1471	Lithium hypochlorite, dry or Lithium hypochlorite mixtures, dry
UN1472	Lithium peroxide
UN1473	Magnesium bromate
UN1474	Magnesium nitrate
UN1475	Magnesium perchlorate
UN1476	Magnesium peroxide
UN1477	Nitrates, inorganic, n.o.s.
NA1479	Medicines, oxidizing substance, solid, n.o.s.
UN1479	Oxidizing solid, n.o.s.
UN1481	Perchlorates, inorganic, n.o.s.
UN1482	Permanganates, inorganic, n.o.s.
UN1483	Peroxides, inorganic, n.o.s.
UN1484	Potassium bromate
UN1485	Potassium chlorate

ID Number	Proper Shipping Name (in roman type)
UN1486	Potassium nitrate
UN1487	Potassium nitrate and sodium nitrite mixtures
UN1488	Potassium nitrite
UN1489	Potassium perchlorate, solid or Potassium perchlorate, solution
UN1490	Potassium permanganate
UN1491	Potassium peroxide
UN1492	Potassium persulfate
UN1493	Silver nitrate
UN1494	Sodium bromate
UN1495	Sodium chlorate
UN1496	Sodium chlorite
UN1498	Sodium nitrate
UN1499	Sodium nitrate and potassium nitrate mixtures
UN1500	Sodium nitrite
UN1502	Sodium perchlorate
UN1503	Sodium permanganate
UN1504	Sodium peroxide
UN1505	Sodium persulfate
UN1506	Strontium chlorate
UN1507	Strontium nitrate
UN1508	Strontium perchlorate
UN1509	Strontium peroxide
UN1510	Tetranitromethane
UN1511	Urea hydrogen peroxide
UN1512	Zinc ammonium nitrite
UN1513	Zinc chlorate
UN1514	Zinc nitrate
UN1515	Zinc permanganate
UN1516	Zinc peroxide
UN1517	Zirconium picramate, wetted with not less than 20 percent water, by mass
UN1541	Acetone cyanohydrin, stabilized
UN1544	Alkaloids, solid, n.o.s. <i>or</i> Alkaloid salts, solid, n.o.s. <i>poisonous</i>
UN1545	Allyl isothiocyanate, stabilized
UN1546	Ammonium arsenate
UN1547	Aniline
UN1548	Aniline hydrochloride
NA1549	Antimony tribromide, solution <i>or</i> Antimony, trifluoride, solid <i>or</i> Antimony, trifluoride, solution <i>or</i> Antimony tribromide, solid
UN1549	Antimony compounds, inorganic, solid, n.o.s.
UN1550	Antimony lactate
UN1551	Antimony potassium tartrate
UN1553	Arsenic acid, liquid
UN1554	Arsenic acid, solid
UN1555	Arsenic bromide

ID Number	Proper Shipping Name (in roman type)
NA1556	Methyldichloroarsine
UN1556	Arsenic compounds, liquid, n.o.s. inorganic, including arsenates, n.o.s.; arsenites, n.o.s.; arsenic sulfides, n.o.s.; and organic compounds of arsenic, n.o.s.
NA1557	Arsenic sulfide or Arsenic trisulfide
UN1557	Arsenic compounds, solid, n.o.s. inorganic, including arsenates, n.o.s.; arsenites, n.o.s.; arsenic sulfides, n.o.s.; and organic compounds of arsenic, n.o.s.
UN1558	Arsenic
UN1559	Arsenic pentoxide
UN1560	Arsenic trichloride
UN1561	Arsenic trioxide
UN1562	Arsenical dust
UN1564	Barium compounds, n.o.s.
UN1565	Barium cyanide
UN1566	Beryllium compounds, n.o.s.
UN1567	Beryllium, powder
UN1569	Bromoacetone
UN1570	Brucine
UN1571	Barium azide, wetted with not less than 50 percent water, by mass
UN1572	Cacodylic acid
UN1573	Calcium arsenate
NA1574	Calcium arsenite, solid
UN1574	Calcium arsenate and calcium arsenite, mixtures, solid
UN1575	Calcium cyanide
UN1577	Chlorodinitrobenzenes
UN1578	Chloronitrobenzene, ortho, liquid or Chloronitrobenzenes meta or para, solid
UN1579	4-Chloro-o-toluidine hydrochloride
UN1580	Chloropicrin
UN1581	Chloropicrin and methyl bromide mixtures
UN1582	Chloropicrin and methyl chloride mixtures
UN1583	Chloropicrin mixtures, n.o.s.
UN1585	Copper acetoarsenite
UN1586	Copper arsenite
UN1587	Copper cyanide
UN1588	Cyanides, inorganic, solid, n.o.s.
UN1589	Cyanogen chloride, inhibited
UN1590	Dichloroanilines, liquid or Dichloroanilines, solid
UN1591	o-Dichlorobenzene
UN1593	Dichloromethane
UN1594	Diethyl sulfate
UN1595	Dimethyl sulfate
UN1596	Dinitroanilines
UN1597	Dinitrobenzenes, liquid or Dinitrobenzenes, solid
UN1598	Dintro-o-cresol, solid or Dintro-o-cresol, solution
UN1599	Dinitrophenel solutions

ID Number	Proper Shipping Name (in roman type)
UN1600	Dinitrotoluenes, molten
UN1601	Disinfectants, solid, toxic, n.o.s.
UN1602	Dyes, liquid, toxic, n.o.s. or Dye intermediates, liquid, toxic, n.o.s.
UN1603	Ethyl bromoacetate
UN1604	Ethylenediamine
UN1605	Ethylene dibromide
UN1606	Ferric arsenate
UN1607	Ferric arsenite
UN1608	Ferrous arsenate
UN1611	Hexaethyl tetraphosphate, liquid or Hexaethyl tetraphosphate, solid
UN1612	Hexaethyl tetraphosphate and compressed gas mixtures
UN1613	Hydrocyanic acid, aqueous solutions or Hydrogen cyanide, aqueous solutions with not more than 20 percent hydrogen cyanide or Hydrocyanic acid, aqueous solutions with less than 5 percent hydrogen cyanide
UN1614	Hydrogen cyanide, stabilized with less than 3 percent water and absorbed in a porous inert material
UN1616	Lead acetate
UN1617	Lead arsenates
UN1618	Lead arsenites
UN1620	Lead cyanide
UN1621	London purple
UN1622	Magnesium arsenate
UN1623	Mercuric arsenate
UN1624	Mercuric chloride
UN1625	Mercuric nitrate
UN1626	Mercuric potassium cyanide
UN1627	Mercurous nitrate
UN1629	Mercury acetate
UN1630	Mercury ammonium chloride
UN1631	Mercury benzoate
UN1634	Mercury bromides
UN1636	Mercury cyanide
UN1637	Mercury gluconate
UN1638	Mercury iodide, solution or Mercury iodide, solid
UN1639	Mercury nucleate
UN1640	Mercury oleate
UN1641	Mercury oxide
UN1642	Mercury oxycyanide, desensitized
UN1643	Mercury potassium iodide
UN1644	Mercury salicylate
UN1645	Mercury sulfates
UN1646	Mercury thiocyanate
UN1647	Methyl bromide and ethylene dibromide mixtures, liquid
UN1648	Acetonitrile
NA1649	Tetraethyl lead, liquid

ID Number	Proper Shipping Name (in roman type)
UN1649	Motor fuel anti-knock mixtures
UN1650	beta-Naphthylamine
UN1651	Naphthylthiourea
UN1652	Naphthylurea
UN1653	Nickel cyanide
UN1654	Nicotine
UN1655	Nicotine compounds, solid, n.o.s. or Nicotine preparations, solid, n.o.s.
UN1656	Nicotine hydrochloride or Nicotine hydrochloride solution
UN1657	Nicotine salicylate
UN1658	Nicotine sulfate, solid or Nicotine sulfate, solution
UN1659	Nicotine tartrate
UN1660	Nitric oxide, compressed
UN1661	Nitroanilines (o-; m-; p-;)
UN1662	Nitrobenzene
UN1663	Nitophenols (o-; m-; p-;)
UN1664	Nitrotoluenes, liquid (o-; m-; p-;) or Nitrotoluenes, solid (m-; or p-;)
UN1665	Nitroxylenes (o-; m-; p-')
UN1669	Pentachloroethane
UN1670	Perchloromethyl mercaptan
UN1671	Phenol, solid
UN1672	Phenylcarbylamine chloride
UN1673	Phenylenediamines (o-; m-; p-;)
UN1674	Phenylmercuric acetate
UN1677	Potassium arsenate
UN1678	Potassium arsenite
UN1679	Potassium cuprocyanide
UN1680	Potassium cyanide
UN1683	Silver arsenite
UN1684	Silver cyanide
UN1685	Sodium arsenate
UN1686	Sodium arsenite, aqueous solutions
UN1687	Sodium azide
UN1688	Sodium cacodylate
UN1689	Sodium cyanide
UN1690	Sodium fluoride
UN1691	Strontium arsenite
UN1692	Strychnine or Strychnine salts
NA1693	Tear gas devices with more than 2 percent tear gas substances, by mass
UN1693	Tear gas substances, liquid, n.o.s. <i>or</i> Tear gas substances, solid, n.o.s.
UN1694	Bromobenzyl cyanides, liquid <i>or</i> Bromobenzyl cyanides, solid
UN1695	Chloroacetone, stabilized
UN1697	Chloroacetophenone (CN), liquid <i>or</i> Chloroacetophenone (CN), solid
UN1698	Diphenylamine chloroarsine
UN1699	Diphenylchloroarsine, liquid or Diphenylchloroarsine, solid
OIVIUSS	photographic, liquid of photographic, solid

ID	Proper Shipping Name
Number	(in roman type)
UN1700	Tear gas candles
UN1701	Xylyl bromide
UN1702	Tetrachloroethane
UN1704	Tetraethyl dithiopyrophosphate
NA1707	Thallium sulfate, solid
UN1707	Thallium compounds, n.o.s.
UN1708	Toluidines liquid or Toluidines solid
UN1709	2,4-Toluylenediamine or 2,4-Toluenediamine
UN1710	Trichloroethylene
UN1711	Xylidines, solid or Xylidines, solution
UN1712	Zinc arsenate or Zinc arsenite or Zinc arsenate and zinc arsenite mixtures
UN1713	Zinc cyanide
UN1714	Zinc phosphide
UN1715	Acetic anhydride
UN1716	Acetyl bromide
UN1717	Acetyl chloride
UN1718	Butyl acid phosphate
UN1719	Caustic alkali liquids, n.o.s.
UN1722	Allyl chloroformate
UN1723	Allyl iodide
UN1724	Allyltrichlorosilane, stabilized
UN1725	Aluminum bromide, anhydrous
UN1726	Aluminum chloride, anhydrous
UN1727	Ammonium hydrogendifluoride, solid
UN1728	Amyltrichlorosilane
UN1729	Anisoyl chloride
UN1730	Antimony pentachloride, liquid
UN1731	Antimony pentachloride, solutions
UN1732	Antimony pentafluoride
UN1733	Antimony trichloride, liquid or Antimony trichloride, solid
UN1736	Benzoyl chloride
UN1737	Benzyl bromide
UN1738	Benzyl chloride or Benzyl chloride unstabilized
UN1739	Benzyl chloroformate
UN1740	Hydrogendifluorides, n.o.s. solid or Hydrogendifluorides, n.o.s. solutions
UN1741	Boron trichloride
UN1742	Boron trifluoride acetic acid complex
UN1743	Boron trifluoride propionic acid complex
UN1744	Bromine or Bromine solutions
UN1745	Bromine pentafluoride
UN1746	Bromine trifluoride
UN1747	Butyltrichlorosilane
UN1748	Calcium hypochlorite, dry or Calcium hypochlorite mixtures dry with more than 39 percent available chlorine (8.8 percent available oxygen)

ID Number	Proper Shipping Name (in roman type)
UN1749	Chlorine trifluoride
UN1750	Chloroacetic acid, solution
UN1751	Chloroacetic acid, solid
UN1752	Chloroacetyl chloride
UN1753	Chlorophenyltrichlorosilane
UN1754	Chlorosulfonic acid (with or without sulfur trioxide)
UN1755	Chromic acid solution
UN1756	Chromic fluoride, solid
UN1757	Chromic fluoride, solution
UN1758	Chromium oxychloride
NA1759	Ferrous chloride, solid or Medicines, corrosive, solid, n.o.s.
UN1759	Corrosive solids, n.o.s.
NA1760	Chemical kit, or Compounds, cleaning liquid or Compounds, tree killing liquid or Compounds, weed killing, liquid or Ferrous chloride, solution or Medicines, corrosive, liquid, n.o.s. or Titanium sulfate solution
UN1760	Corrosive liquids, n.o.s.
UN1761	Cupriethylenediamine solution
UN1762	Cyclohexenyltrichlorosilane
UN1763	Cyclohexyltrichlorosilane
UN1764	Dichloroacetic acid
UN1765	Dichloroacetyl chloride
UN1766	Dichlorophenyltrichlorosilane
UN1767	Diethyldichlorosilane
UN1768	Difluorophosphoric acid, anhydrous
UN1769	Diphenyldichlorosilane
UN1770	Diphenylmethyl bromide
UN1771	Dodecyltrichlorosilane
UN1773	Ferric chloride, anhydrous
UN1774	Fire extinguisher charges, corrosive liquid
UN1775	Fluoroboric acid
UN1776	Fluorophosphoric acid anhydrous
UN1777	Fluorosulfonic acid
UN1778	Fluorosilicic acid
UN1779	Formic acid
UN1780	Fumaryl chloride
UN1781	Hexadecyltrichlorosilane
UN1782	Hexafluorophosphoric acid
UN1783	Hexamethylenediamine solution
UN1784	Hexyltrichlorosilane
UN1786	Hydrofluoric acid and Sulfuric acid mixtures
UN1787	Hydriodic acid
UN1788	Hydrobromic acid, with more than 49 percent hydrobromic acid or Hydrobromic acid, with not more than 49 percent hydrobromic acid
UN1789	Hydrochloric acid

ID Number	Proper Shipping Name (in roman type)
UN1790	Hydrofluoric acid, with more than 60 percent strength or Hydrofluoric acid, with not more than 60 percent strength
UN1791	Hypochlorite solutions
UN1792	lodine monochloride
UN1793	Isopropyl acid phosphate
UN1794	Lead sulfate with more than 3 percent free acid
UN1796	Nitrating acid mixtures, with more than 50 percent nitric acid or Nitrating acid mixtures, with not more than 50 percent nitric acid
UN1798	Nitrohydrochloric acid
UN1799	Nonyltrichlorosilane
UN1800	Octadecyltrichlorosilane
UN1801	Octyltrichlorosilane
UN1802	Perchloric acid with not more than 50 percent acid by mass
UN1803	Phenolsulfonic acid, liquid
UN1804	Phenyltrichlorosilane
UN1805	Phosphoric acid
UN1806	Phosphorus pentachloride
UN1807	Phosphorus pentoxide
UN1808	Phosphorus tribromide
UN1809	Phosphorus trichloride
UN1810	Phosphorus oxychloride
UN1811	Potassium hydrogendifluoride, solid or Potassium hydrogendifluoride, solution
UN1812	Potassium fluoride
UN1813	Potassium hydroxide, solid
UN1814	Potassium hydroxide, solution
UN1815	Propionyl chloride
UN1816	Propyltrichlorosilane
UN1817	Pyrosulfuryl chloride
UN1818	Silicon tetrachloride
UN1819	Sodium aluminate, solution
UN1823	Sodium hydroxide, solid
UN1824	Sodium hydroxide solution
UN1825	Sodium monoxide
UN1826	Nitrating acid mixtures, spent with more than 50 percent nitric acid or Nitrating acid mixtures, spent with not more than 50 percent nitric acid
UN1827	Stannic chloride, anhydrous
UN1828	Sulfur chlorides
NA1829	Sulfur trioxide, uninhibited
UN1829	Sulfur trioxide, inhibited or Sulfur trioxide, stabilized
UN1830	Sulfuric acid with more than 51 percent acid
UN1831	Sulfuric acid, fuming with 30 percent or more free sulfur trioxide or Sulfuric acid, fuming with less than 30 percent free sulfur trioxide
UN1832	Sulfuric acid, spent
UN1833	Sulfurous acid
UN1834	Sulfuryl chloride

ID Number	Proper Shipping Name (in roman type)
UN1835	Tetramethylammonium hydroxide
UN1836	Thionyl chloride
UN1837	Thiophosphoryl chloride
UN1838	Titanium tetrachloride
UN1839	Trichloroacetic acid
UN1840	Zinc chloride, solution
UN1841	Acetaldehyde ammonia
UN1843	Ammonium dintro-o-cresolate
UN1845	Carbon dioxide, solid, or Dry ice
UN1846	Carbon tetrachloride
UN1847	Potassium sulfide, hydrated with not less than 30 percent water of crystallization
UN1848	Propionic acid
UN1849	Sodium sulfide, hydrated with not less than 30 percent water
UN1851	Medicine, liquid, toxic, n.o.s.
UN1854	Barium alloys, pyrophic
UN1855	Calcium, pyrophoric or Calcium alloys, pyrophoric
UN1858	Hexafluoropropylene, compressed or Refrigerant gas R 1216
UN1859	Silicon tetrafluoride, compressed
UN1860	Vinyl fluoride, inhibited
UN1862	Ethyl crotonate
UN1863	Fuel, aviation, turbine engine
UN1865	n-Propyl nitrate
UN1866	Resin solution, flammable
UN1868	Decaborane
UN1869	Magnesium or Magnesium alloys with more than 50 percent magnesium in pellets, turnings, or ribbons
UN1870	Potassium borohydride
UN1871	Titanium hydride
UN1872	Lead dioxide
UN1873	Perchloric acid with more than 50 percent but not more than 72 percent acid, by mass
UN1884	Barium oxide
UN1885	Benzidine
UN1886	Benzylidene chloride
UN1887	Bromochloromethane
UN1888	Chloroform
UN1889	Cyanogen bromide
UN1891	Ethyl bromide
UN1892	Ethyldichloroarsine
UN1894	Phenylmercuric hydroxide
UN1895	Phenylmercuric nitrate
UN1897	Tetrachloroethylene
UN1898	Acetyl iodide
UN1902	Diisooctyl acid phosphate
UN1903	Disinfectants, liquid, corrosive, n.o.s.

ID Namela an	Proper Shipping Name
Number	(in roman type)
UN1905	Selenic acid
UN1906	Sludge, acid
UN1907	Soda lime with more than 4 percent sodium hydroxide
UN1908	Chlorite solution
UN1910	Calcium oxide
NA1911	Diborane mixtures
UN1911	Diborane, compressed
UN1912	Methyl chloride and methylene chloride mixtures
UN1913	Neon, refrigerated liquid (cryogenic liquid)
UN1914	Butyl propionates
UN1915	Cyclohexanone
UN1916	2,2'-Dichlorodiethyl ether
UN1917	Ethyl acrylate, inhibited
UN1918	Isopropylbenzene
UN1919	Methyl acrylate, inhibited
UN1920	Nonanes
UN1921	Propyleneimine, inhibited
UN1922	Pyrrolidine
UN1923	Calcium dithionite or Calcium hydrosulfite
UN1928	Methyl magnesium bromide, in ethyl ether
UN1929	Potassium dithionite or Potassium hydrosulfite
UN1931	Zinc dithionite or Zinc hydrosulfite
UN1932	Zirconium scrap
UN1935	Cyanide solutions, n.o.s.
UN1938	Bromoacetic acid, solution or Bromoacetic acid, solid
UN1939	Phosphorus oxybromide
UN1940	Thioglycolic acid
UN1941	Dibromodifluoromethane, R12B2
UN1942	Ammonium nitrate, with not more than 0.2 percent of combustible substances, including any organic substance calculated as carbon, to the exclusion of any other added substance
UN1944	Matches, safety (book, card, or strike on box)
UN1945	Matches, wax, Vesta
UN1950	Aerosols, corrosive, Packing Group II or III, (each not exceeding 1 L capacity) or Aerosols,
0111950	flammable (each not exceeding 1 L capacity) or Aerosols, flammable, n.o.s. (engine starting fluid) (each not exceeding 1 L capacity) or Aerosols, nonflammable (each not exceeding 1 L capacity) or Aerosols, poison, each not exceeding 1 L capacity
UN1951	Argon, refrigerated liquid (cryogenic liquid)
UN1952	Ethylene oxide and carbon dioxide mixtures with not more than 9 percent ethylene oxide
UN1953	Compressed gas, toxic, flammable, n.o.s. Inhalation Hazard Zone A, B, C, or D
NA1954	Insecticide gases flammable n.o.s. or Refrigerant gases, n.o.s., or Dispersant gases, n.o.s. or Refrigerating machines, containing flammable, nonpoisonous, liquefied gas
UN1954	Compressed gas, flammable, n.o.s.
NA1955	Organic phosphate, mixed with compressed gas or Organic phosphate compound, mixed with compressed gas or Organic phosphorous compound, mixed with compressed gas
UN1955	Compressed gas, toxic, n.o.s. Inhalation Hazard Zone A, B, C, or D

ID Number	Proper Shipping Name (in roman type)
NA1956	Accumulators, pressurized, pneumatic or hydraulic (containing nonflammable gas)
UN1956	Compressed gas, n.o.s.
UN1957	Deuterium, compressed
UN1958	1,2-Dichloro-1,1,2,2-Tetrafluoroethane or Refrigerant gas R 114
UN1959	1,1-Difluoroethylene or Refrigerant gas R 1132a
NA1961	Ethane-Propane mixture, refrigerated liquid
UN1961	Ethane, refrigerated liquid
UN1962	Ethylene, compressed
UN1963	Helium, refrigerated liquid (cyrogenic liquid)
UN1964	Hydrocarbon gas mixture, compressed, n.o.s.
UN1965	Hydrocarbon gas mixtures, liquefied, n.o.s.
UN1966	Hydrogen, refrigerated liquid (cryogenic liquid)
NA1967	Parathion and compressed gas mixture
UN1967	Insecticide gases, toxic, n.o.s.
UN1968	Insecticide gases, n.o.s.
UN1969	Isobutane see also Petroleum gases, liquified
UN1970	Krypton, refrigerated liquid (cryogenic liquid)
UN1971	Methane, compressed or Natural gas, compressed (with high methane content)
UN1972	Methane, refrigerated liquid (cryogenic liquid) or Natural gas, refrigerated liquid (cryogenic liquid), with high methane content
UN1973	Chlorodifluoromethane and chloropentafluoroethane mixture or Refrigerant gas R 502 with fixed boiling point, with approximately 49 percent chlorodifluoromethane
UN1974	Chlorodifluorobromomethane or Refrigerant gas R 12B1
UN1975	Nitric oxide and dinitrogen tetroxide mixtures or Nitric oxide and nitrogen dioxide mixtures
UN1976	Octafluorocyclobutane, or Refrigerant gas RC 318
UN1977	Nitrogen, refrigerated liquid cryogenic liquid
UN1978	Propane see also Petroleum gases, liquefied
UN1979	Rare gases, mixtures, compressed
UN1980	Rare gases and oxygen mixtures, compressed
UN1981	Rare gases and nitrogen mixtures, compressed
UN1982	Tetrafluoromethane, compressed or Refrigerant gas R 14
UN1983	1-Chloro-2,2,2-trifluoroethane or Refrigerant gas R 133a
UN1984	Trifluoromethane or Refrigerant gas R 23
NA1986	Denatured alcohol or Propargyl alcohol
UN1986	Alcohols, flammable, toxic, n.o.s.
NA1987	Denatured alcohol
UN1987	Alcohols, n.o.s.
UN1988	Aldehydes, flammable, toxic, n.o.s.
UN1989	Aldehydes, n.o.s.
UN1990	Benzaldehyde
UN1991	Chloroprene, inhibited
UN1992	Flammable liquids, toxic, n.o.s.
NA1993	Combustible liquid, n.o.s. <i>or</i> Compounds, cleaning liquid <i>or</i> Compounds, tree killing liquid <i>or</i> Compounds, weed killing, liquid <i>or</i> Diesel fuel <i>or</i> Fuel oil (No. 1, 2, 4, 5, or 6) or Medicines, flammable, liquid, n.o.s. <i>or</i> Refrigerating machine

ID Number	Proper Shipping Name (in roman type)
UN1993	Flammable liquids, n.o.s.
UN1994	Iron pentacarbonyl
NA1999	Asphalt, at or above its flashpoint
UN1999	Tars, liquid including road asphalt and oils, bitumen and cut backs
UN2000	Celluloid, in block, rods, rolls, sheets, tubes, etc., except scrape
UN2001	Cobalt naphthenates, powder
UN2002	Celluloid, scrape
UN2003	Metal alkyls, water-reactive, n.o.s. <i>or</i> Metal aryls, water-reactive, n.o.s.
UN2004	Magnesium diamide
UN2004 UN2005	Magnesium diphenyl
UN2006	Plastics, nitrocellulose-based, self-heating, n.o.s.
UN2008	Zirconium powder, dry
UN2009	Zirconium, dry, finished sheets, strip or coiled wire
UN2010	Magnesium hydride
UN2011	Magnesium phosphide
UN2012	Potassium phosphide
UN2013	Strontium phosphide
UN2014	Hydrogen peroxide, aqueous solutions with more than 40 percent but not more than 60 percent hydrogen peroxide (stabilized as necessary) or Hydrogen peroxide, aqueous solutions with not less than 20 percent but not more than 40 percent hydrogen peroxide (stabilized as necessary)
UN2015	Hydrogen peroxide, stabilized or Hydrogen peroxide aqueous solutions, stabilized with more than 60 percent hydrogen peroxide
UN2016	Ammunition, toxic, non-explosive, without burster or expelling charge, non-fuzed
UN2017	Ammunition, tear-producing, non-explosive, without burster or expelling charge, non-fuzed
UN2018	Chloroanilines, solid
UN2019	Chloroanilines, liquid
UN2020	Chlorophenols, solid
UN2021	Chlorophenols, liquid
UN2022	Cresylic acid
UN2023	Epichlorohydrin
UN2024	Mercury compounds, liquid, n.o.s.
UN2025	Mercury compounds, solid, n.o.s.
UN2026	Phenylmercuric compounds, n.o.s.
UN2027	Sodium arsenite, solid
UN2028	Bombs, smoke, non-explosive, with corrosive liquid, without initiating device
UN2029	Hydrazine, anhydrous or Hydrazine aqueous solutions with more than 64 percent hydrazine, by mass
UN2030	Hydrazine hydrate or Hydrazine aqueous solutions, with not less than 37 percent but not more than 64 percent hydrazine, by mass
UN2031	Nitric acid other than red fuming, with more than 70 percent nitric acid or Nitric acid other than red fuming, with not more than 70 percent nitric acid
UN2032	Nitric acid, red fuming
UN2033	Potassium monoxide
UN2034	Hydrogen and Methane mixtures, compressed
UN2035	1,1,1-Trifluoroethane, compressed or Refrigerant gas R 143a

ID Number	Proper Shipping Name (in roman type)
UN2036	Xenon, compressed
UN2037	Gas cartridges (flammable) without a release device, non-refillable or Receptacles, small, containing gas (gas cartridges) flammable or nonflammable, without release device, not refillable and not exceeding 1 L capacity
UN2038	Dinitrotoluenes, liquid or Dinitrotoluenes, solid
UN2044	2,2-Dimethylpropane
UN2045	Isobutyraldehyde or Isobutyl aldehyde
UN2046	Cymenes
UN2047	Dichloropropenes
UN2048	Dicyclopentadiene
UN2049	Diethylbenzene
UN2050	Diisobutylene, isomeric compounds
UN2051	2-Dimethylaminoethanol
UN2052	Dipentene
UN2053	Methyl isobutyl carbinol
UN2054	Morpholine
UN2055	Styrene monomer, inhibited
UN2056	Tetrahydrofuran
UN2057	Tripropylene
UN2058	Valeraldehyde
UN2059	Nitrocellulose, solution, flammable with not less than 12.6 percent nitrogen, by mass, and not more than 55 percent nitrocellulose
UN2067	Ammonium nitrate fertilizers; uniform non-segregating mixtures of ammonium nitrate with added matter which is inorganic and chemically inert towards ammonium nitrate, with not less than 90 percent ammonium nitrate and not more than 0.2 percent combustible
NA2069	Ammonium nitrate mixed fertilizers
UN2071	Ammonium nitrate fertilizers: uniform non-segregating mixtures of nitrogen/phosphate or nitrogen/potash types or complete fertilizers of nitrogen/phosphate/potash type, with not more than 70 percent ammonium nitrate and not more than 0.4 percent total add
NA2072	Ammonium nitrate fertilizers
UN2073	Ammonia solution, relative density less than 0.880 at 15° C in water, with more than 35 percent but not more than 50 percent ammonia
UN2074	Acrylamide
UN2075	Chloral, anhydrous, inhibited
UN2076	Cresols
UN2077	alpha-Naphthylamine
UN2078	Toluene diisocyanate
UN2079	Diethylenetriamine
UN2186	Hydrogen chloride, refrigerated liquid
UN2187	Carbon dioxide, refrigerated liquid
UN2188	Arsine
UN2189	Dichlorosilane
UN2190	Oxygen difluoride, compressed
UN2191	Sulfuryl fluoride
UN2192	Germane
UN2193	Hexafluoroethane, compressed or Refrigerant gas R 116

ID Number	Proper Shipping Name (in roman type)
UN2194	Selenium hexafluoride
UN2195	Tellurium hexafluoride
UN2196	Tungsten hexafluoride
UN2197	Hydrogen iodide, anhydrous
UN2198	Phosphorus pentafluoride, compressed
UN2199	Phosphine
UN2200	Propadiene, inhibited
UN2201	Nitrous oxide, refrigerated liquid
UN2202	Hydrogen selenide, anhydrous
UN2203	Silane, compressed
UN2204	Carbonyl sulfide
UN2205	Adiponitrile
UN2206	Isocyanates, toxic, n.o.s. <i>or</i> Isocyanate solutions, toxic, n.o.s. flashpoint more than 61° C and boiling point less than 300° C
UN2208	Calcium hypochlorite mixtures, dry, with more than 10 percent but not more than 39 percent available chlorine
UN2209	Formaldehyde, solutions, with not less than 25 percent formaldehyde
UN2210	Maneb or Maneb preparations with not less than 60 percent maneb
UN2211	Polymeric beads, expandable, evolving flammable vapor
NA2212	Asbestos
UN2212	Blue asbestos (Crocidolite) or Brown asbestos (amosite, mysorite)
UN2213	Paraformaldehyde
UN2214	Phthalic anhydride with more than .05 percent maleic anhydride
NA2215	Maleic acid
UN2215	Maleic anhydride
UN2216	Fish meal, stabilized or Fish scrap, stabilized
UN2217	Seed cake with not more than 1.5 percent oil and not more than 11 percent moisture
UN2218	Acrylic acid, inhibited
UN2219	Allyl glycidyl ether
UN2222	Anisole
UN2224	Matches, fusee or Benzonitrile
UN2225	Benzene sulfonyl chloride
UN2226	Benzotrichloride
UN2227	n-Butyl methacrylate, inhibited
UN2232	2-Chloroethanal
UN2233	Chloroanisidines
UN2234	Chlorobenzotrifluorides
UN2235	Chlorobenzyl chlorides
UN2236	3-Chloro-4-methylphenyl isocyanate
UN2237	Chloronitroanilines
UN2238	Chlorotoluenes
UN2239	Chlorotoluidines liquid or Chlorotoluidines solid
UN2240	Chromosulfuric acid
UN2241	Cycloheptane

ID Number	Proper Shipping Name (in roman type)
UN2242	Cycloheptene
UN2243	Cyclohexyl acetate
UN2244	Cyclopentanol
UN2245	Cyclopentanone
UN2246	Cyclopentene
UN2247	n-Decane
UN2248	Di-n-butylamine
UN2249	Dichlorodimethyl ether, symmetrical
UN2250	Dichlorophenyl isocyanates
UN2251	Bicyclo [2,2,1] hepta-2, 5-diene, inhibited or 2,5-Norbornadiene, inhibited
UN2252	1,2-Dimethoxyethane
UN2253	N,N-Dimethylaniline
UN2256	Cyclohexene
UN2257	Potassium
UN2258	1,2-Propylenediamine
UN2259	Triethylenetetramine
UN2260	Tripropylamine
UN2261	Xylenols
UN2262	Dimethylcardamoyl chloride
UN2263	Dimethylcyclohexanes
UN2264	Dimethylcyclohexlamine
UN2265	N,N-Dimethylformamide
UN2266	Dimethyl-N-propylamine
UN2267	Dimethyl thiophosphoryl chloride
UN2269	3,3'-lminodipropylamine
UN2270	Ethylamine, aqueous solution with not less than 50 percent but not more than 70 percent ethylamine
UN2271	Ethyl amyl ketone
UN2272	N-Ethylaniline
UN2273	2-Ethylaniline
UN2274	N-Ethyl-N-benzylaniline
UN2275	2-Ethylbutanol
UN2276	2-Ethylhexylamine
UN2277	Ethyl methacrylate
UN2278	n-Heptane
UN2279	Hexachlorobutadiene
UN2280	Hexamethylenediamine, solid
UN2281	Hexamethylene diisocyanate
UN2282	Hexanols
UN2283	Isobutyl methacrylate, inhibited
UN2284	Isobutyronitrile
UN2285	Isocyanatobenzotrifluorides
UN2286	Pentamethylheptane
UN2287	Isoheptenes

ID Number	Proper Shipping Name (in roman type)
UN2288	Isohexenes
UN2289	Isophoronediamine
UN2290	Isophorone diisocyanate
UN2291	Lead compounds, soluble, n.o.s.
UN2293	4-Methoxy-4-methylpentan-2-one
UN2294	N-Methylaniline
UN2295	Methyl chloroacetate
UN2296	Methylcyclohexane
UN2297	Methylcyclohexanone
UN2298	Methylcyclopentane
UN2299	Methyl dichloroacetate
UN2300	2-Methyl-5-ethylpyridine
UN2301	2-Methylfuran
UN2302	5-Methylhexan-2-one
UN2303	Isopropenylbenzene
UN2304	Naphthalene, molten
UN2305	Nitrobenzenesulfonic acid
UN2306	Nitrobenzotrifluorides
UN2307	3-Nitro-4-chlorobenzotrifluoride
UN2308	Nitrosylsulfuric acid
UN2309	Octadiene
UN2310	Pentane-2,4-dione
UN2311	Phenetidines
UN2312	Phenol, molten
UN2313	Picolines
UN2315	Polychlorinated biphenyls, liquid or solid
UN2316	Sodium cuprocyanide, solid
UN2317	Sodium cuprocyanide, solution
UN2318	Sodium hydrosulfide, with less than 25 percent water of crystallization
UN2319	Terpene hydrocarbons, n.o.s.
UN2320	Tetraethylenepentamine
UN2321	Trichlorbenzenes, liquid
UN2322	Trichlorobutene
UN2323	Triethyl phosphite
UN2324	Triisobutylene
UN2325	1,3,5-Trimethylbenzene
UN2326	Trimethylcyclohexylamine
UN2327	Trimethylhexamethylenediamines
UN2328	Trimethylhexamethylene diisocyanate
UN2329	Trimethyl phosphite
UN2330	Undecane
UN2331	Zinc chloride, anhydrous
UN2332	Acetaldehyde oxime
UN2333	Allyl acetate

ID	Proper Shipping Name
Number	(in roman type)
UN2334	Allylamine
UN2335	Allyl ethyl ether
UN2336	Allyl formate
UN2337	Phenyl mercaptan
UN2338	Benzotrifluoride
UN2339	2-Bromobutane
UN2340	2-Bromoethyl ethyl ether
UN2341	1-Bromo-3-methylbutane
UN2342	Bromomethylpropanes
UN2343	2-Bromopentane
UN2344	Bromopropanes or 2-Bromopropanes
UN2345	3-Bromopropyne
UN2346	Butanedione
UN2347	Butyl mercaptans
UN2348	Butyl acrylates, inhibited
UN2350	Butyl methyl ether
UN2351	Butyl nitrites
UN2352	Butyl vinyl ether, inhibited
UN2353	Butyryl chloride
UN2354	Chloromethyl ethyl ether
UN2356	2-Chloropropane
UN2357	Cyclohexylamine
UN2358	Cyclooctatetraene
UN2359	Diallylamine
UN2360	Diallylether
UN2361	Diisobutylamine
UN2362	1,1-Dichloroethane
UN2363	Ethyl mercaptan
UN2364	n-Propyl benzene
UN2366	Diethyl carbonate
UN2367	alpha-Methylvaleraldehyde
UN2368	alpha-Pinene
UN2370	1-Hexene
UN2371	Isopentenes
UN2372	1,2-Di-(dimethylamino)ethane
UN2373	Diethoxymethane
UN2374	3,3-Diethoxypropene
UN2375	Diethyl sulfide
UN2376	2,3-Dihydropyran
UN2377	1,1-Dimethoxyethane
UN2378	N-Butylaniline or 2-Dimethylaminoacetonitrile
UN2379	1,3-Dimethylbutylamine
UN2380	Dimethyldiethoxysilane
UN2381	Dimethyl disulfide

ID Number	Proper Shipping Name (in roman type)
UN2382	Dimethylhydrazine, symmetrical
UN2383	Dipropylamine
UN2384	Di-n-propyl ether
UN2385	Ethyl isobutyrate
UN2386	1-Ethylpiperidine
UN2387	Fluorobenzene
UN2388	Fluorotoluenes
UN2389	Furan
UN2390	2-lodobutane
UN2391	Iodomethylpropanes
UN2392	lodopropanes
UN2393	Isobutyl formate
UN2394	Isobutyl propionate
UN2395	Isobutyryl chloride
UN2396	Methacrylaldehyde, inhibited
UN2397	3-Methylbutan-2-one
UN2398	Methyl tert-butyl ether
UN2399	1-Methylpiperidine
UN2400	Methyl isovalerate
UN2401	Piperidine
UN2402	Propanethiols
UN2403	Isopropenyl acetate
UN2404	Propionitrile
UN2405	Isopropyl butyrate
UN2406	Isopropyl isobutyrate
UN2407	Isopropyl chloroformate
UN2409	Isopropyl propionate
UN2410	1,2,3,6-Tetrahydropyridine
UN2411	Butyronitrile
UN2412	Tetrahydrothiophene
UN2413	Tetrapropylorthotitanate
UN2414	Thiophene
UN2416	Trimethyl borate
UN2417	Carbonyl fluoride, compressed
UN2418	Sulfur tetrafluoride
UN2419	Bromotrifluoroethylene
UN2420	Hexafluoroacetone
UN2421	Nitrogen trioxide
UN2422	Octafluorobut-2-ene <i>or</i> Refrigerant gas R 1318
UN2424	Octafluoropropane <i>or</i> Refrigerant gas R 218
UN2426	Ammonium nitrate, liquid (hot concentrated solution)
UN2427	Potassium chlorate, aqueous solution
UN2428	Sodium chlorate, aqueous solution
UN2429	Calcium chlorate aqueous solution

ID Number	Proper Shipping Name (in roman type)
UN2430	Alkylphenols, solid, n.o.s. (including C2-C12 homologues)
UN2431	Anisidines
UN2432	N,N-Diethylaniline
UN2433	Chloronitrotoluenes liquid or Chloronitrotoluenes solid
UN2434	Dibenzyldichlorosilane
UN2435	Ethylphenyldichlorosilane
UN2436	Thioacetic acid
UN2437	Methylphenyldichlorosilane
UN2438	Trimethylacetyl chloride
UN2439	Sodium hydrogendifluoride, solid or Sodium hydrogendifluoride, solution
UN2440	Stannic chloride, pentahydrate
UN2441	Titanium trichloride, pryophoric or Titanium trichloride mixtures, pyrophoric
UN2442	Trichloroacetyl chloride
UN2443	Vanadium oxytrichloride
UN2444	Vanadium tetrachloride
UN2445	Lithium alkyls
UN2446	Nitrocresols
UN2447	Phosphorus white, molten
NA2448	Sulfur, molten
UN2448	Sulfur, molten
UN2451	Nitrogen trifluoride, compressed
UN2452	Ethylacetylene, inhibited
UN2453	Ethyl fluoride or Refrigerant gas R 161
UN2454	Methyl fluoride, or Refrigerant gas R 41
UN2456	2-Chloropropene
UN2457	2,3-Dimethylbutane
UN2458	Hexadienes
UN2459	2-Methyl-1-butene
UN2460	2-Methyl-2-butene
UN2461	Methylpentadienes
UN2463	Aluminum hydride
UN2464	Beryllium nitrate
UN2465	Dichloroisocyanuric acid, dry or Dichloroisocyanuric acid salts
UN2466	Potassium superoxide
NA2468	mono-(Trichloro) tetra-(monopotassium dichloro)-penta-s-triazinetrione, dry with more than 39 percent available chlorine
UN2468	Trichloroisocyanuric acid, dry
UN2469	Zinc bromate
UN2470	Phenylacetonitrile, liquid
UN2471	Osmium tetroxide
UN2473	Sodium arsanilate
UN2474	Thiophosgene
UN2475	Vanadium trichloride
UN2477	Methyl isothiocyanate

ID Number	Proper Shipping Name (in roman type)
UN2478	Isocyanates, flammable, toxic, n.o.s. <i>or</i> Isocyanate solutions, flammable, toxic, n.o.s. <i>flashpoint less than 23° C</i>
UN2480	Methyl isocyanate
UN2481	Ethyl isocyanate
UN2482	n-Propyl isocyanate
UN2483	Isopropyl isocyanate
UN2484	tert-Butyl isocyanate
UN2485	n-Butyl isocyanate
UN2486	Isobutyl isocyanate
UN2487	Phenyl isocyanate
UN2488	Cyclohexyl isocyanate
UN2490	Dichlorodisopropyl ether
UN2491	Ethanolamine or Ethanolamine solutions
UN2493	Hexamethyleneimine
UN2495	lodine pentafluoride
UN2496	Propionic anhydride
UN2498	1,2,3,6-Tetrahydrobenzaldehyde
UN2501	Tris-(1-aziridinyl)phosphine oxide, solution
UN2502	Valeryl chloride
UN2503	Zirconium tetrachloride
UN2504	Tetrabromoethane
UN2505	Ammonium fluoride
UN2506	Ammonium hydrogen sulfate
UN2507	Chloroplatinic acid, solid
UN2508	Molybdenum pentachloride
UN2509	Potassium hydrogen sulfate
UN2511	2-Chloropropionic acid
UN2512	Aminophenols (o-; m-; p-)
UN2513	Bromoacetyl bromide
UN2514	Bromobenzene
UN2515	Bromoform
UN2516	Carbon tetrabromide
UN2517	1-Chloro-1,1-difluoroethane or Refrigerant gas R 142b
UN2518	1,5,9-Cyclododecatriene
UN2520	Cyclooctadienes
UN2521	Diketene, inhibited
UN2522	2-Dimethylaminoethyl methacrylate
UN2524	Ethyl orthoformate
UN2525	Ethyl oxalate
UN2526	Furfurylamine
UN2527	Isobutyl acrylate, inhibited
UN2528	IsobutyI isobutyrate
UN2529	Isobutyric acid
UN2530	Isobutyric anhydride

ID	Proper Shipping Name
Number	(in roman type)
UN2531	Methacrylic acid, inhibited
UN2533	Methyl trichloroacetate
UN2534	Methylchlorosilane
UN2535	4-Methylmorpholine or n-methylmorpholine
UN2536	Methyltetrahydrofuran
UN2538	Nitronaphthalene
UN2541	Terpinolene
UN2542	Tributylamine
UN2545	Hafnium powder, dry
UN2546	Titanium powder, dry
UN2547	Sodium superoxide
UN2548	Chlorine pentafluoride
UN2552	Hexafluoroacetone hydrate
UN2554	Methyl allyl chloride
UN2555	Nitrocellulose with water with not less than 25 percent water, by mass
UN2556	Nitrocellulose, with alcohol with not less than 25 percent alcohol, by mass, and with not more than 12.6 percent nitrogen, by dry mass
UN2557	Nitrocellulose, with not more than 12.6 percent nitrogen, by dry mass, or Nitrocellulose mixture with pigment or Nitrocellulose mixture with plasticizer or Nitrocellulose mixture with pigment and plasticizer
UN2558	Epibromohydrin
UN2560	2-Methylpentan-2-ol
UN2561	3-Methyl-1-butene
UN2564	Trichloroacetic acid, solution
UN2565	Dicyclohexylamine
UN2567	Sodium pentachlorophenate
UN2570	Cadmium compounds
UN2571	Alkylsulfuric acids
UN2572	Phenylhydrazine
UN2573	Thallium chlorate
UN2574	Tricresyl phosphate with more than 3 percent ortho isomer
UN2576	Phosphorus oxybromide, molten
UN2577	Phenylacetyl chloride
UN2578	Phosphorus trioxide
UN2579	Piperazine
UN2580	Aluminum bromide, solution
UN2581	Aluminum chloride, solution
UN2582	Ferric chloride, solution
UN2583	Alkyl sulfonic acids, solid or Aryl sulfonic acids, solid with more than 5 percent free sulfuric acid
NA2584	Dodecylbenzenesulfonic acid
UN2584	Alkyl sulfonic acids, liquid or Aryl sulfonic acids, liquid with more than 5 percent free sulfuric acid
UN2585	Alkyl sulfonic acids, solid or Aryl sulfonic acids, solid with not more than 5 percent free sulfuric acid
UN2586	Alkyl sulfonic acids, liquid or Aryl sulfonic acids, liquid with not more than 5 percent free sulfuric acid
UN2587	Benzoquinone

ID Number	Proper Shipping Name (in roman type)
UN2588	Pesticides, solid, toxic, n.o.s.
UN2589	Vinyl chloroacetate
UN2590	White asbestos (chrysotile, actinolite, anthophyllite, tremolite)
UN2591	Xenon, refrigerated liquid (cryogenic liquids)
UN2599	Chlorotrifluoromethane and trifluoromethane azeotropic mixture or Refrigerant gas R 503 with approximately 60 percent chlorotrifluoromethane
UN2600	Carbon monoxide and hydrogen mixture, compressed
UN2601	Cyclobutane
UN2602	Dichlorodifluoromethane and difluoroethane azeotropic mixture or Refrigerant gas R 500 with approximately 74 percent dichlorodifluoromethane
UN2603	Cycloheptatriene
UN2604	Boron trifluoride diethyl etherate
UN2605	Methoxymethyl isocyanate
UN2606	Methyl orthosilicate
UN2607	Acrolein dimer, stabilized
UN2608	Nitropropanes
UN2609	Triallyl borate
UN2610	Triallylamine
UN2611	Propylene chlorohydrin
UN2612	Methyl propyl ether
UN2614	Methallyl alcohol
UN2615	Ethyl propyl ether
UN2616	Triisopropyl borate
UN2617	Methylcyclohexanols, flammable
UN2618	Vinyltoluenes, inhibited
UN2619	Benzyldimethylamine
UN2620	Amyl butyrates
UN2621	Acetyl methyl carbinol
UN2622	Glycidaldehyde
UN2623	Firelighters, solid with flammable liquid
UN2624	Magnesium silicide
UN2626	Chloric acid aqueous solution, with not more than 10 percent chloric acid
UN2627	Nitrites, inorganic, n.o.s.
UN2628	Potassium fluoroacetate
UN2629	Sodium fluoroacetate
NA2630	Sodium selenite
UN2630	Selenates or Selenites
UN2642	Fluoroacetic acid
UN2643	Methyl bromoacetate
UN2644	Methyl iodide
UN2645	Phenacyl bromide
UN2646	Hexachlorocyclopentadiene
UN2647	Malononitrile
UN2648	1,2-Dibromobutan-3-one

ID Number	Proper Shipping Name (in roman type)
UN2649	1,3-Dichloroacetone
UN2650	1,1-Dichloro-1-nitroethane
UN2651	4,4'-Diaminodiphenyl methane
UN2653	Benzyl iodide
UN2655	Potassium fluorosilicate
UN2656	Quinoline
UN2657	Selenium disulfide
UN2659	Sodium chloroacetate
UN2660	Nitrotoluidines (mono)
UN2661	Hexachloroacetone
UN2662	Hydroquinone
UN2664	Dibromomethane
UN2667	Butyltoluenes
UN2668	Chloroacetonitrile
UN2669	Chlorocresols, liquid or Chlorocresols, solid
UN2670	Cyanuric chloride
UN2671	Aminopyridines (o-; m-; p-)
UN2672	Ammonia solution, relative density between 0.880 and 0.957 at 15° C in water, with more than 10 percent but not more than 35 percent ammonia
UN2673	2-Amino-4-chlorophenol
UN2674	Sodium fluorosilicate
UN2676	Stibine
UN2677	Rubidium hydroxide solution
UN2678	Rubidium hydroxide
UN2679	Lithium hydroxide, solution
UN2680	Lithium hydroxide, monohydrate or Lithium hydroxide, solid
UN2681	Caesium hydroxide solution
UN2682	Caesium hydroxide
UN2683	Ammonium sulfide solution
UN2684	Diethylaminopropylamine
UN2685	N,N-Diethylethylenediamine
UN2686	2-Diethylaminoethanol
UN2687	Dicyclohexylammonium nitrate
UN2688	1-Chloro-3-bromopropane
UN2689	Glycerol alpha-monochlorohydrin
UN2690	N-n-Butyl imidazole
UN2691	Phosphorus pentabromide
UN2692	Boron tribromide
UN2693	Bisulfites, aqueous solutions, n.o.s.
UN2698	Tetrahydrophthalic anhydrides with more than 0.05 percent of maleic anhydride
UN2699	Trifluoroacetic acid
UN2705	1-Pentol
UN2707	Dimethyldioxanes
UN2709	Butyl benzenes

UN2710 Dipropyl ketone UN2713 Acridine UN2714 Zinc resinate UN2715 Aluminum resinate UN2716 1,4-Butynediol UN2717 Camphor, synthetic UN2719 Barium bromate UN2720 Chromium nitrate UN2721 Copper chlorate	
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UN2721 Copper chlorate	
LINOZOO Lithium pitroto	
UN2722 Lithium nitrate	
UN2723 Magnesium chlorate	
UN2724 Manganese nitrate	
UN2725 Nickel nitrate	
UN2726 Nickel nitrite	
UN2727 Thallium nitrate	
UN2728 Zirconium nitrate	
UN2729 Hexachlorobenzene	
UN2730 Nitroanisole	
UN2732 Nitrobromobenzenes liquid or Nitrobromobenzenes solid	
UN2733 Amines, flammable, corrosive, n.o.s. <i>or</i> Polyamines, flammable, corrosive, n.o.s.	
UN2734 Amines, liquid, corrosive, flammable, n.o.s. or Polyamines, liquid, corrosive, flammable, n.o.s. or Polyamines, liquid, corrosive, flammable, n.o.s.	able, n.o.s.
UN2735 Amines, liquid, corrosive, n.o.s. <i>or</i> Polyamines, liquid, corrosive, n.o.s.	
UN2739 Butyric anhydride	
UN2740 n-Propyl chloroformate	
UN2741 Barium hypochlorite with more than 22 percent available chlorine	
NA2742 sec-Butyl chloroformate <i>or</i> Isobutyl chloroformate	
UN2742 Chloroformates, toxic, corrosive, flammable, n.o.s.	
UN2743 n-Butyl chloroformate	
UN2744 Cyclobutyl chloroformate	
UN2745 Chloromethyl chloroformate	
UN2746 Phenyl chloroformate	
UN2747 tert-Butylcyclohexylchloroformate	
UN2748 2-Ethylhexyl chloroformate	
UN2749 Tetramethylsilane	
UN2750 1,3-Dichloropropanol-2	
UN2751 Diethylthiophosphoryl chloride	
UN2752 1,2-Epoxy-3-ethoxypropane	
UN2753 N-Ethylbenzyltoluidines liquid or N-Ethylbenzyltoluidines solid	
UN2754 N-Ethyltoluidines	
UN2757 Carbamate pesticides, solid, toxic	
UN2758 Carbamate pesticides, liquid, flammable, toxic, flashpoint less than 23° C	
UN2759 Arsenical pesticides, solid, toxic	
UN2760 Arsenical pesticides, liquid, flammable, toxic, flashpoint less than 23° C	
NA2761 Aldrin, solid <i>or</i> Dieldrin	

ID Number	Proper Shipping Name (in roman type)
UN2761	Organochlorine pesticides, solid, toxic
NA2762	Aldrin, liquid
UN2762	Organochlorine pesticides liquid, flammable, toxic, flashpoint less than 23° C
UN2763	Triazine pesticides, solid, toxic
UN2764	Triazine pesticides, liquid, flammable, toxic, flashpoint less than 23° C
UN2771	Thiocarbamate pesticides, solid, toxic
UN2772	Thiocarbamate pesticide, liquid, flammable, toxic, flashpoint less than 23° C
UN2775	Copper based pesticides, solid, toxic
UN2776	Copper based pesticides, liquid, flammable, toxic, flashpoint less than 23° C
UN2777	Mercury based pesticides, solid, toxic
UN2778	Mercury based pesticides, liquid, flammable, toxic, flashpoint less than 23° C
UN2779	Substituted nitrophenol pesticides, solid, toxic
UN2780	Substituted nitrophenol pesticides, liquid, flammable, toxic, flashpoint less than 23° C
UN2781	Bipyridilium pesticides, solid, toxic
UN2782	Bipyridilium pesticides, liquid, flammable, toxic, flashpoint less than 23° C
NA2783	Methyl parathion solid <i>or</i> Parathion <i>or</i> Tetraethyl pyrophosphate, solid
UN2783	Organophosphorus pesticides, solid, toxic
UN2784	Organophosphorus pesticides, liquid, flammable, toxic, flashpoint less than 23° C
UN2785	4-Thiapentanal
UN2786	Organotin pesticides, solid, toxic
UN2787	Organotin pesticides, liquid, flammable, toxic, flashpoint less than 23° C
UN2788	Organotin compounds, liquid, n.o.s.
UN2789	Acetic acid, glacial or Acetic acid solution, with more than 80 percent acid, by mass
UN2790	Acetic acid solution, not less than 50 percent but not more than 80 percent acid, by mass or Acetic acid solution, with more than 10 percent and less than 50 percent acid, by mass
UN2793	Ferrous metal borings or Ferrous metal shavings or Ferrous metal turnings or Ferrous metal cuttings in a form liable to self-heating
UN2794	Batteries, wet, filled with acid, electric storage
UN2795	Batteries, wet, filled with acid, electric storage
UN2796	Battery fluid, acid or Sulfuric acid with not more than 51 percent acid
UN2797	Battery fluid, alkali
UN2798	Phenyl phosphorus dichloride
UN2799	Phenyl phosphorus thiodichloride
UN2800	Batteries, wet, non-spillable, electric storage
UN2801	Dyes, liquid, corrosive, n.o.s. or Dye intermediates, liquid, corrosive, n.o.s.
UN2802	Copper chloride
UN2803	Gallium
UN2805	Lithium hydride, fused solid
UN2806	Lithium nitride
UN2809	Mercury or Mercury contained in manufactured articles
UN2810	Toxic, liquids, organic, n.o.s. or Toxic, liquids, organic, n.o.s. Inhalation Hazard, Packing Group I, Zone A or B
NA2811	Selenium oxide
UN2811	Toxic solids, organic, n.o.s.

ID Number	Proper Shipping Name (in roman type)
UN2812	Sodium aluminate, solid
UN2813	Water-reactive solid, n.o.s.
UN2814	Infectious substances, affecting humans only
UN2815	N-Aminoethylpiperazine
UN2817	Ammonium hydrogendiflouride, solution
UN2818	Ammonium polysulfide, solution
UN2819	Amyl acid phosphate
UN2820	Butyric acid
UN2821	Phenol solutions
UN2822	2-Chloropyridine
UN2823	Crotonic acid liquid or Crotonic acid solid
UN2826	Ethyl chlorothioformate
UN2829	Caproic acid
UN2830	Lithium ferrosilicon
UN2831	1,1,1-Trichloroethane
UN2834	Phosphorous acid
UN2835	Sodium aluminum hydride
UN2837	Bisulfate, aqueous solution
UN2838	Vinyl butyrate, inhibited
UN2839	Aldol
UN2840	Butyraldoxime
UN2841	Di-n-amylamine
UN2842	Nitroethane
UN2844	Calcium manganese silicon
NA2845	Ethyl phosphonous dichloride, anhydrous pyrophoric liquid or Methyl phosphonous dichloride, pyrophoric liquid
UN2845	Pyrophoric liquids, organic, n.o.s.
UN2846	Pyrophoric solids, organic, n.o.s.
UN2849	3-Chloropropanol-1
UN2850	Propylene tetramer
UN2851	Boron trifluoride dihydrate
UN2852	Dipicryl sulfide, wetted with not less than 10 percent water, by mass
UN2853	Magnesium fluorosilicate
UN2854	Ammonium fluorosilicate
UN2855	Zinc fluorosilicate
UN2856	Fluorosilicates, n.o.s.
UN2857	Refrigerating machines, containing nonflammable, nontoxic, liquefied gas or ammonia solution (UN2672)
UN2858	Zirconium, dry, coiled wire, finished metal sheets, strip (thinner than 254 microns but not thinner than 18 microns)
UN2859	Ammonium metavanadate
UN2861	Ammonium polyvanadate
UN2862	Vanadium pentoxide, nonfused form
UN2863	Sodium ammonium vanadate
UN2864	Potassium metavanadate

ID Number	Proper Shipping Name (in roman type)
UN2865	Hydroxylamine sulfate
UN2869	Titanium trichloride mixtures
UN2870	Aluminum borohydride or Aluminum borohydride in devices
UN2871	Antimony powder
UN2872	Dibromochloropropane
UN2873	Dibutylaminoethanol
UN2874	Furfuryl alcohol
UN2875	Hexachlorophene
UN2876	Resorcinol
UN2878	Titanium sponge granules or Titanium sponge powders
UN2879	Selenium oxychloride
UN2880	Calcium hypochlorite, hydrated or Calcium hypochlorite, hydrated mixtures, with not less than 5.5 percent but not more than 10 percent water
UN2881	Metal catalyst, dry
UN2900	Infectious substances, affecting animals only
UN2901	Bromine chloride
UN2902	Pesticides, liquid, toxic, n.o.s.
UN2903	Pesticides, liquid, toxic, flammable, flashpoint not less than 23° C
UN2904	Chlorophenolates, liquid or Phenolates, liquid
UN2905	Chlorophenolates, solid or Phenolates, solid
UN2907	Isosorbide dinitrate mixture with not less than 60 percent lactose, mannose, starch or calcium hydrogen phosphate
UN2910	Radioactive material, excepted package-articles manufactured from natural or depleted uranium or natural thorium or Radioactive material, excepted package-empty package or empty packaging or Radioactive material, excepted package-instruments or articles or Radioactive material, excepted package-limited quantity of material
UN2912	Radioactive material, low specific activity, n.o.s. or Radioactive material, LSA, n.o.s.
UN2913	Radioactive material, surface contaminated object or Radioactive material, SCO
UN2918	Radioactive material, fissile, n.o.s.
NA2920	Dichlorobutene
UN2920	Corrosive liquids, flammable, n.o.s.
UN2921	Corrosive solids, flammable, n.o.s.
NA2922	Sodium hydrosulfide, solution
UN2922	Corrosive liquids, toxic, n.o.s.
UN2923	Corrosive solids, toxic, n.o.s.
UN2924	Flammable liquids, corrosive, n.o.s.
UN2925	Flammable solids, corrosive, organic, n.o.s.
UN2926	Flammable solids, toxic, organic, n.o.s.
NA2927	Ethyl phosphonothioic dichloride, anhydrous <i>or</i> Ethyl phosphorodichloridate
UN2927	Toxic liquids, corrosive, organic, n.o.s. or Toxic liquids, corrosive, organic, n.o.s. Inhalation Hazard, Packing Group I, Zone A or B
UN2928	Toxic solids, corrosive, organic, n.o.s.
UN2929	Toxic liquids, flammable, organic, n.o.s. <i>or</i> Toxic liquids, flammable, organic, n.o.s. <i>Inhalation Hazard, Packing Group I, Zone A or B</i>
UN2930	Toxic solids, flammable, organic, n.o.s.

ID Number	Proper Shipping Name (in roman type)
UN2931	Vanadyl sulfate
UN2933	Methyl 2-chloropropionate
UN2934	Isopropyl 2-chloropropionate
UN2935	Ethyl 2-chloropropionate
UN2936	Thiolactic acid
UN2937	alpha-Methylbenzyl alcohol
UN2940	9-Phosphabicyclonoanes or Cyclooctadiene phosphines
UN2941	Fluoroanilines
UN2942	2-Trifluoromethylaniline
UN2943	Tetrahydrofurfurylamine
UN2945	N-Methylbutylamine
UN2946	2-Amino-5-diethylaminopentane
UN2947	Isopropyl chloroacetate
UN2948	3-Trifluoromethylaniline
UN2949	Sodium hydrosulfide, with not less than 25 percent water of crystallization
UN2950	Magnesium granules, coated particle size not less than 149 microns
UN2956	5-tert-Butyl-2,4,6-trinitro-m-xylene <i>or</i> Musk xylene
UN2965	Boron trifluoride dimethyl etherate
UN2966	Thiogylcol
UN2967	Sulfamic acid
UN2968	Maneb stabilized or Maneb preparations, stabilized against self-heating
UN2969	Castor beans or Castor meal or Castor pomace or Castor flake
UN2974	Radioactive material, special form, n.o.s.
UN2975	Thorium metal, pyrophoric
UN2976	Thorium nitrate, solid
UN2977	Uranium hexafluoride, fissile with more than 1 percent U-235
UN2978	Uranium hexafluoride, fissile excepted or non-fissile
UN2979	Uranium metal, pyrophoric
UN2980	Uranyl nitrate hexahydrate solution
UN2981	Uranyl nitrate, solid
UN2982	Radioactive material, n.o.s.
UN2983	Ethylene oxide and propylene oxide mixtures with not more than 30 percent ethylene oxide
UN2984	Hydrogen peroxide, aqueous solutions with not less than 8 percent but less than 20 percent hydrogen peroxide (stabilized as necessary)
UN2985	Chlorosilanes, flammable, corrosive, n.o.s.
UN2986	Chlorosilanes, corrosive, flammable, n.o.s.
UN2987	Chlorosilanes, corrosive, n.o.s.
UN2988	Chlorosilanes, water-reactive, flammable, corrosive, n.o.s.
UN2989	Lead phosphite, dibasic
UN2990	Life-saving appliances, self-inflating
UN2991	Carbamate pesticide, liquid, toxic, flammable, flashpoint not less than 23° C
UN2992	Carbamate pesticides, liquid, toxic
UN2993	Arsenical pesticides, liquid, toxic, flammable, flashpoint not less than 23° C
UN2994	Arsenical pesticides, liquid, toxic

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ID Number	Proper Shipping Name (in roman type)
UN2995	Organochlorine pesticides, liquid, toxic, flammable, flashpoint not less than 23° C
UN2996	Organochlorine pesticide, liquid, toxic
UN2997	Triazine pesticides, liquid, toxic, flammable, flashpoint not less than 23° C
UN2998	Triazine pesticides, liquid, toxic
UN3002	Phenyl urea pesticides, liquid, toxic
UN3005	Thiocarbamate pesticides, liquid, flammable, toxic, <i>flashpoint not less than 23° C</i>
UN3006	Thiocarbamate pesticide, liquid, toxic
UN3009	Copper based pesticides, liquid, toxic, flammable, flashpoint not less than 23° C
UN3010	Copper based pesticides, liquid, toxic Copper based pesticides, liquid, toxic
UN3010	Mercury based pesticides, liquid, toxic, flammable, flashpoint not less than 23° C
UN3011	Mercury based pesticides, liquid, toxic Mercury based pesticides, liquid, toxic
UN3012	Substituted nitrophenol pesticides, liquid, toxic flammable flashpoint not less than 23° C
	Substituted nitrophenol pesticides, liquid, toxic Substituted nitrophenol pesticides, liquid, toxic
UN3014 UN3015	
UN3016	Bipyridilium pesticides, liquid, toxic, flammable, flashpoint not less than 23° C Bipyridilium pesticides, liquid, toxic
UN3017	Organophosphorus pesticides, liquid, toxic, flammable, flashpoint not less than 23° C
NA3018	Methyl parathion liquid or Tetraethyl pyrophosphate, liquid
UN3018	Organophosphorus pesticides, liquid, toxic
UN3019	Organotin pesticides, liquid, toxic, flammable, flashpoint not less than 23° C
UN3020	Organotin pesticides, liquid, toxic
UN3021	Pesticides, liquid, flammable, toxic, <i>flashpoint less than 23° C</i>
UN3022	1,2-Butylene oxide, stabilized
UN3023	2-Methyl-2-heptanethiol
UN3024	Coumarin derivative pesticides, liquid, flammable, toxic, flashpoint less than 23° C
UN3025	Coumarin derivative pesticides, liquid, toxic, flammable, flashpoint not less than 23° C
UN3026	Coumarin derivative pesticides, liquid, toxic
UN3027	Coumarin derivative pesticides, solid, toxic
NA3028	Batteries, dry, containing potassium hydroxide solid, <i>electric, storage</i>
UN3048	Aluminum phosphide pesticides
UN3049	Metal alkyl halides, water-reactive, n.o.s. <i>or</i> Metal aryl halides, water-reactive, n.o.s.
UN3050 UN3051	Metal alkyl hydrides, water-reactive, n.o.s. or Metal aryl hydrides, water-reactive, n.o.s. Aluminum alkyls
UN3051	Aluminum alkyl halides
UN3053	Magnesium alkyls
UN3054	Cyclohexyl mercaptan
UN3055	2-(2-Aminoethoxy) ethanol
UN3056	n-Heptaldehyde
UN3057	Trifluoroacetyl chloride
UN3064	Nitroglycerin, solution in alcohol, with more than 1 percent but not more than 5 percent
J. 10007	nitroglycerin
UN3065	Alcoholic beverages
UN3066	Paint or Paint related material

ID Number	Proper Shipping Name (in roman type)
UN3070	Ethylene oxide and dichlorodifluoromethane mixture with not more than 12.5 percent ethylene oxide
UN3071	Mercaptans, liquid, toxic, flammable, n.o.s. <i>or</i> Mercaptan mixtures, liquid, toxic, flammable, n.o.s., <i>flashpoint not less than 23° C</i>
UN3072	Life-saving appliances, not self-inflating containing dangerous goods as equipment
UN3073	Vinylpyridines, inhibited
UN3076	Aluminum alkyl hydrides
NA3077	Hazardous waste, solid, n.o.s. or Other regulated substances, solid, n.o.s.
UN3077	Environmentally hazardous substances, solid, n.o.s. (not including waste)
UN3078	Cerium, turnings or gritty powder
UN3079	Methacrylonitrile, inhibited
UN3080	Isocyanates, toxic, flammable, n.o.s. or Isocyanate solutions, toxic, flammable, n.o.s. flashpoint not less than 23° C but not more than 6° C and boiling point less than 300° C
NA3082	Hazardous waste, liquid, n.o.s. or Other regulated substances, liquid, n.o.s.
UN3082	Environmentally hazardous substances, liquid, n.o.s. (not including waste)
UN3083	Perchloryl fluoride
UN3084	Corrosive solids, oxidizing, n.o.s.
UN3085	Oxidizing solid, corrosive, n.o.s.
UN3086	Toxic solids, oxidizing, n.o.s.
UN3087	Oxidizing solid, toxic, n.o.s.
UN3088	Self-heating solid, organic, n.o.s.
UN3089	Metal powders, flammable, n.o.s.
UN3090	Lithium battery
UN3091	Lithium batteries, contained in equipment
UN3091	Lithium batteries packed with equipment
UN3092	1-Methoxy-2-propanol
UN3093	Corrosive liquids, oxidizing, n.o.s.
UN3094	Corrosive liquids, water-reactive, n.o.s.
UN3095	Corrosive solids, self-heating, n.o.s.
UN3096	Corrosive solids, water-reactive, n.o.s.
UN3097	Flammable solid, oxidizing, n.o.s.
UN3098	Oxidizing liquid, corrosive, n.o.s.
UN3099	Oxidizing liquid, toxic, n.o.s.
UN3100	Oxidizing solid, self-heating, n.o.s.
UN3101	Organic peroxide type B, liquid
UN3102	Organic peroxide type B, solid
UN3103	Organic peroxide type C, liquid
UN3104	Organic peroxide type C, solid
UN3105	Organic peroxide type D, liquid
UN3106	Organic peroxide type D, solid
UN3107	Organic peroxide type E, liquid
UN3108	Organic peroxide type E, solid
UN3109	Organic peroxide type F, liquid
UN3110	Organic peroxide type F, solid

ID Number	Proper Shipping Name (in roman type)
UN3111	Organic peroxide type B, liquid, temperature controlled
UN3112	Organic peroxide type B, solid, temperature controlled
UN3113	Organic peroxide type C, liquid, temperature controlled
UN3114	Organic peroxide type C, solid, temperature controlled
UN3115	Organic peroxide type D, liquid, temperature controlled
UN3116	Organic peroxide type D, solid, temperature controlled
UN3117	Organic peroxide type E, liquid, temperature controlled
UN3118	Organic peroxide type E, solid, temperature controlled
UN3119	Organic peroxide type F, liquid, temperature controlled
UN3120	Organic peroxide type F, solid, temperature controlled
UN3121	Oxidizing solid, water-reactive, n.o.s.
UN3122	Toxic liquids, oxidizing, n.o.s. or Toxic liquids, oxidizing, n.o.s. Inhalation Hazard, Packing Group I, Zone A or B
UN3123	Toxic liquids, water-reactive, n.o.s. or Toxic liquids, water-reactive, n.o.s. Inhalation Hazard, Packing Group I, Zone A or B
UN3124	Toxic solids, self-heating, n.o.s.
UN3125	Toxic solids, water-reactive, n.o.s.
UN3126	Self-heating solid, corrosive, organic, n.o.s.
UN3127	Self-heating solid, oxidizing, n.o.s.
UN3128	Self-heating solid, toxic, organic, n.o.s.
UN3129	Water-reactive liquid, corrosive, n.o.s.
UN3130	Water-reactive liquid, toxic, n.o.s.
UN3131	Water-reactive solid, corrosive, n.o.s.
UN3132	Water-reactive solid, flammable, n.o.s.
UN3133	Water-reactive solid, oxidizing, n.o.s.
UN3134	Water-reactive solid, toxic, n.o.s.
UN3135	Water-reactive solid, self-heating, n.o.s.
UN3136	Trifluoromethane, refrigerated liquid
UN3137	Oxidizing solid, flammable, n.o.s.
UN3138	Ethylene, acetylene and propylene in mixture, refrigerated liquid with at least 71.5 percent ethylene with not more than 22.5 percent acetylene and not more than 6 percent propylene
UN3139	Oxidizing liquid, n.o.s.
UN3140	Alkaloids, liquid, n.o.s., or Alkaloid salts, liquid, n.o.s.
UN3141	Antimony compounds, inorganic, liquid, n.o.s.
UN3142	Disinfectants, liquid, toxic, n.o.s.
UN3143	Dyes, solid, toxic, n.o.s. or Dye intermediates, solid, toxic, n.o.s.
UN3144	Nicotine compounds, liquid, n.o.s. or Nicotine preparations, liquid, n.o.s.
UN3145	Alkylphenols, liquid, n.o.s. (including C2-C12 homologues)
UN3146	Organotin compounds, solid, n.o.s.
UN3147	Dyes, solid, corrosive, n.o.s. or Dye intermediates, solid, corrosive, n.o.s.
UN3148	Water-reactive liquid, n.o.s.
UN3149	Hydrogen peroxide and peroxyacetic acid mixtures, stabilized with acids, water, and not more than 5 percent peroxyacetic acid
UN3150	Devices, small, hydrocarbon gas powered or Hydrocarbon gas refills for small devices with release device

ID Number	Proper Shipping Name (in roman type)
UN3151	Polyhalogenated biphenyls, liquid <i>or</i> Polyhalogenated terphenyls, liquid
UN3152	Polyhalogenated biphenyls, solid <i>or</i> Polyhalogenated terphenyls, solid
UN3153	Perfluoro(methyl vinyl ether)
UN3154	Perfluoro(ethyl vinyl ether)
UN3155	Pentachlorophenol
UN3156	Compressed gas, oxidizing, n.o.s.
UN3157	Liquefied gas, oxidizing, n.o.s.
UN3158	Gas, refrigerated liquid, n.o.s. <i>(cryogenic liquid)</i>
UN3159	1,1,1,2-Tetrafluoroethane <i>or</i> Refrigerant gas R 134a
UN3160	Liquefied gas, toxic, flammable, n.o.s. Inhalation Hazard Zone A, B, C, or D
UN3161	Liquefied gas, flammable, n.o.s.
UN3162	Liquefied gas, toxic, n.o.s. Inhalation Hazard Zone A, B, C, or D
UN3163	Liquefied gas, n.o.s.
UN3164	Articles, pressurized pneumatic or Hydraulic containing non-flammable gas
UN3165	Aircraft hydraulic power unit fuel tank (containing a mixture of anhydrous hydrazine and monomethyl hydrazine) (M86 fuel)
UN3166	Engines, internal combustion, <i>flammable gas powered or</i> Engines, internal combustion, <i>flammable liquid powered or</i> Engines, internal combustion, flammable liquid powered <i>or</i> Vehicle, flammable gas powered <i>or</i> Vehicle, flammable liquid powered
UN3167	Gas sample, non-pressurized, flammable, n.o.s., not refrigerated liquid
UN3168	Gas sample, non-pressurized, toxic, flammable, n.o.s., not refrigerated liquid
UN3169	Gas sample, non-pressurized, toxic, n.o.s., not refrigerated liquid
UN3170	Aluminum smelting by-products or Aluminum remelting by-products
UN3171	Battery-powered vehicle or Battery-powered equipment
UN3174	Titanium disulphide
UN3175	Solids containing flammable liquid, n.o.s.
UN3176	Flammable solid, organic, molten, n.o.s.
NA3178	Smokeless powder for small arms (100 pounds or less)
UN3178	Flammable solid, inorganic, n.o.s.
UN3179	Flammable solid, toxic, inorganic, n.o.s.
UN3180	Flammable solid, corrosive, inorganic, n.o.s.
UN3181	Metal salts of organic compounds, flammable, n.o.s.
UN3182	Metal hydrides, flammable, n.o.s.
UN3183	Self-heating liquid, organic, n.o.s.
UN3184	Self-heating liquid, toxic, organic, n.o.s.
UN3185	Self-heating liquid, corrosive, organic, n.o.s.
UN3186	Self-heating liquid, inorganic, n.o.s.
UN3187	Self-heating liquid, toxic, inorganic, n.o.s.
UN3188	Self-heating liquid, corrosive, inorganic, n.o.s.
UN3189	Metal powder, self-heating, n.o.s.
UN3190	Self-heating solid, inorganic, n.o.s.
UN3191	Self-heating solid, toxic, inorganic, n.o.s.
UN3192	Self-heating solid, corrosive, inorganic, n.o.s.
UN3194	Pyrophoric liquid, inorganic, n.o.s.
UN3200	Pyrophoric solid, inorganic, n.o.s.

ID Number	Proper Shipping Name (in roman type)
UN3203	Pyrophoric organometallic compound, water-reactive, n.o.s.
UN3205	Alkaline earth metal alcoholates, n.o.s.
UN3206	Alkali metal alcoholates, self-heating, corrosive, n.o.s.
UN3207	Organometallic compound <i>or</i> Compound solution <i>or</i> Compound dispersion, water-reactive, flammable, n.o.s.
UN3208	Metallic substances, water-reactive, n.o.s.
UN3209	Metallic substance, water-reactive, self-heating, n.o.s.
UN3210	Chlorates, inorganic, aqueous solutions, n.o.s.
UN3211	Perchlorates, inorganic, aqueous solution, n.o.s.
UN3212	Hypochlorites, inorganic, n.o.s.
UN3213	Bromates, inorganic, aqueous solution, n.o.s.
UN3214	Permanganates, inorganic, aqueous solution, n.o.s.
UN3215	Persulfates, inorganic, n.o.s.
UN3216	Persulfates, inorganic, aqueous solution, n.o.s.
UN3218	Nitrates, inorganic, aqueous solution, n.o.s.
UN3219	Nitrites, inorganic, aqueous solution, n.o.s.
UN3220	Pentafluoroethane or Refrigerant gas R 125
UN3221	Self-reactive liquid type B
UN3222	Self-reactive solid type B
UN3223	Self-reactive liquid type C
UN3224	Self-reactive solid type C
UN3225	Self-reactive liquid type D
UN3226	Self-reactive solid type D
UN3227	Self-reactive liquid type E
UN3228	Self-reactive solid type E
UN3229	Self-reactive liquid type F
UN3230	Self-reactive solid type F
UN3231	Self-reactive liquid type B, temperature controlled
UN3232	Self-reactive solid type B, temperature controlled
UN3233	Self-reactive liquid type C, temperature controlled
UN3234	Self-reactive solid type C, temperature controlled
UN3235	Self-reactive liquid type D, temperature controlled
UN3236	Self-reactive solid type D, temperature controlled
UN3237	Self-reactive liquid type E, temperature controlled
UN3238	Self-reactive solid type E, temperature controlled
UN3239	Self-reactive liquid type F, temperature controlled
UN3240	Self-reactive solid type F, temperature controlled
UN3241	2-Bromo-2-nitropropane-1,3-diol
UN3242	Azodicarbonamide
UN3243	Solids containing toxic liquid, n.o.s.
UN3244	Solids containing corrosive liquid, n.o.s.
UN3246	Methanesulfonyl chloride
UN3247	Sodium peroxoborate, anhydrous
UN3248	Medicine, liquid, flammable, toxic, n.o.s.

ID Number	Proper Shipping Name (in roman type)
UN3249	Medicine, solid, toxic, n.o.s.
UN3250	Chloroacetic acid, molten
UN3251	Isosorbide-5-mononitrate
UN3252	Difluoromethane or Refrigerant gas R 32
UN3253	Disodium trioxosilicate
UN3254	Tributylphosphane
UN3255	tert-Butyl hypochlorite
UN3256	Elevated temperature liquid, flammable, n.o.s., with flashpoint above 37.8° C, at or above its flashpoint
UN3257	Elevated temperature liquid, n.o.s., at or above 100° C and below its flashpoint (including molten metals, molten salts, etc.)
UN3258	Elevated temperature solid, n.o.s., at or above 240° C, see 49 CFR 173.247(h)(4)
UN3259	Amines, solid, corrosive, n.o.s. <i>or</i> Polyamines, solid, corrosive, n.o.s.
UN3260	Corrosive solid, acidic, inorganic, n.o.s.
UN3261	Corrosive solid, acidic, organic, n.o.s.
UN3262	Corrosive solid, basic, inorganic, n.o.s.
UN3263	Corrosive solid, basic, organic, n.o.s.
UN3264	Corrosive liquid, acidic, inorganic, n.o.s.
UN3265	Corrosive liquid, acidic, organic, n.o.s.
UN3266	Corrosive liquid, basic, inorganic, n.o.s.
UN3267	Corrosive liquid, basic, organic, n.o.s.
UN3268	Air bag inflators, pyrotechnic <i>or</i> Air bag modules, pyrotechnic <i>or</i> Seat-belt pretensioners, pyrotechnic
UN3269	Polyester resin kit
UN3270	Nitrocellulose membrane filters
UN3271	Ethers, n.o.s.
UN3272	Esters, n.o.s.
UN3273	Nitriles, flammable, toxic, n.o.s.
UN3274	Alcoholates solution, n.o.s., in alcohol
UN3275	Nitriles, toxic, flammable, n.o.s.
UN3276	Nitriles, toxic, n.o.s.
UN3277	Chloroformates, toxic, corrosive, n.o.s.
UN3278	Organophosphorus compound, toxic n.o.s.
UN3279	Organophosphorus compound, toxic, flammable, n.o.s.
UN3280	Organoarsenic compound, n.o.s.
UN3281	Metal carbonyls, n.o.s.
UN3282	Organometallic compound, toxic n.o.s.
UN3283	Selenium compound, n.o.s.
UN3284	Tellurium compound, n.o.s.
UN3285	Vanadium compound, n.o.s.
UN3286	Flammable liquid, toxic, corrosive, n.o.s.
UN3287	Toxic liquid, inorganic, n.o.s. or Toxic liquid, inorganic, n.o.s. Inhalation Hazard, Packing Group I, Zone A or B
UN3288	Toxic solid, inorganic, n.o.s.

ID Number	Proper Shipping Name (in roman type)
UN3289	Toxic liquid, corrosive, inorganic, n.o.s. <i>or</i> Toxic liquid, corrosive, inorganic, n.o.s. <i>Inhalation Hazard, Packing Group I, Zone A or B</i>
UN3290	Toxic solid, corrosive, inorganic, n.o.s.
UN3291	Regulated medical waste (sharps) or Regulated medical waste (non-sharps)
UN3292	Batteries, containing sodium or Cells, containing sodium
UN3293	Hydrazine, aqueous solution with not more than 37 percent hydrazine, by mass
UN3294	Hydrogen, cyanide, solution in alcohol with not more than 45 percent hydrogen cyanide
UN3295	Hydrocarbons, liquid, n.o.s.
UN3296	Heptafluoropropane or Refrigerant gas R 227
UN3297	Ethylene oxide and chlorotetrafluoroethane mixture with not more than 8.8 percent ethylene oxide
UN3298	Ethylene oxide and pentafluoroethane mixture with not more than 7.9 percent ethylene oxide
UN3299	Ethylene oxide and tetrafluoroethane mixture with not more than 5.6 percent ethylene oxide
UN3300	Ethylene oxide and carbon dioxide mixtures with more than 87 percent ethylene oxide
UN3301	Corrosive liquids, self-heating, n.o.s.
UN3302	2-Dimethylaminoethyl acrylate
UN3303	Compressed gas, toxic, oxidizing, n.o.s. Inhalation Hazard Zone A, B, C, or D
UN3304	Compressed gas, toxic, corrosive, n.o.s. Inhalation Hazard Zone A, B, C, or D
UN3305	Compressed gas, toxic, flammable, corrosive, n.o.s. Inhalation Hazard Zone A, B, C, or D
UN3306	Compressed gas, toxic, oxidizing, corrosive, n.o.s. Inhalation Hazard Zone A, B, C, or D
UN3307	Liquefied gas, toxic, oxidizing, n.o.s. Inhalation Hazard Zone A, B, C, or D
UN3308	Liquefied gas, toxic, corrosive, n.o.s. Inhalation Hazard Zone A, B, C, or D
UN3309	Liquefied gas, toxic, flammable, corrosive, n.o.s. Inhalation Hazard Zone A, B, C, or D
UN3310	Liquefied gas, toxic, oxidizing, corrosive, n.o.s. Inhalation Hazard Zone A, B, C, or D
UN3311	Gas, refrigerated liquid, oxidizing, n.o.s. (cryogenic liquid)
UN3312	Gas, refrigerated liquid, flammable, n.o.s. (cryogenic liquid)
UN3313	Organic pigments, self-heating
UN3314	Plastic molding compound in dough, sheet, or extruded rope form evolving flammable vapor
UN3316	Chemical kits or First aid kits (containing hazardous materials)
UN3317	2-Amino-4,6-Dinitrophenol, wetted with not less than 20 percent water by mass
UN3318	Ammonia solution, relative density less than 0.880 at 15° C in water, with more than 50 percent ammonia
UN3319	Nitroglycerin mixture, desensitized, solid, n.o.s. with more than 2 percent but not more than 10 percent nitroglycerin, by mass
UN3320	Sodium borohydride and sodium hydroxide solution, with not more than 12 percent sodium borohydride and not more than 40 percent sodium hydroxide by mass
NA3334	Self-defense spray, non-pressurized
UN3334	Aviation regulated liquid, n.o.s.
UN3335	Aviation regulated solid, n.o.s.
UN3336	Mercaptans, liquid, flammable, n.o.s. or Mercaptan mixture, liquid, flammable, n.o.s.
UN3337	Refrigerant gas R 404A
UN3338	Refrigerant gas R 407A
UN3339	Refrigerant gas R 407B
UN3340	Refrigerant gas R 407C
UN3341	Thiourea dioxide
UN3342	Xanthates

ID Number	Proper Shipping Name (in roman type)
UN3343	Nitroglycerin mixture, desensitized, liquid, flammable, n.o.s. with not more than 30 percent nitroglycerin, by mass
UN3344	Pentaerythrite tetranitrate mixture, desensitized, solid, n.o.s. with more than 10 percent but not more than 20 percent PETN, by mass
UN3345	Phenoxyacetic acid derivative pesticide, solid, toxic
UN3346	Phenoxyacetic acid derivative pesticide, liquid, flammable, toxic flashpoint less than 23° C
UN3347	Phenoxyacetic acid derivative pesticide, liquid, toxic, flammable, flashpoint not less than 23° C
UN3348	Phenoxyacetic acid derivative pesticide, liquid, toxic
UN3349	Pyrethroid pesticide, solid, toxic
UN3350	Pyrethroid pesticide, liquid, flammable, toxic, flashpoint less than 23° C
UN3351	Pyrethroid pesticide, liquid, flammable, toxic, flashpoint less than 23° C
UN3352	Pyrethroid pesticide, liquid, toxic
UN3353	Air bag inflators, compressed gas or Air bag modules, compressed gas or Seat-belt pretensioners, compressed gas
UN3354	Insecticide gases, flammable, n.o.s
UN3355	Insecticide gases, toxic, flammable, n.o.s., Inhalation hazard A, B, C or D
UN3356	Oxygen generator, chemical
NA8001	Dangerous Goods in Machinery or Dangerous Goods in Apparatus
NA9035	Gas identification set
NA9163	Zirconium sulfate
NA9191	Chlorine dioxide, hydrate, frozen
NA9195	Metal alkyl, solution, n.o.s.
NA9202	Carbon monoxide, refrigerated liquid (cryogenic liquid)
NA9206	Methyl phosphonic dichloride
NA9260	Aluminum, molten
NA9263	Chloropivaloyl chloride
NA9264	3,5-Dichloro-2,4,6-trifluoropyridine
NA9269	Trimethoxysilane

Appendix C

USPS Packaging Instructions for Mailable Hazardous Materials

These Postal Service packaging instructions are for mailable types of hazardous materials. The numeric digits 1 through 9 correspond to the appropriate hazard class. The alpha characters differentiate the separate groups of materials within a hazard class. Packaging instruction 10A is for the small quantity provision cited in 334. Postal Service packaging instructions are provided as follows:

Hazard Class 1: Explosives

- 1A Toy Propellant Devices
- 1B Safety Fuses

Hazard Class 2: Gases

- 2A Flammable Gases
- 2B Nonflammable Gases
- 2C Fire Extinguishers
- 2D Foodstuffs and Soap Products
- 2E Audible Fire Alarm Systems
- 2F Biological Products or Medical Preparations

Hazard Class 3: Flammable and Combustible Liquids

- 3A Flammable Liquids
- 3B Combustible Liquids
- 3C Cigarette Lighters

Hazard Class 4: Flammable Solids

- 4A Flammable Solids
- 4B Safety Matches

Hazard Class 5: Oxidizing Substances, Organic Peroxides

■ 5A Oxidizing Substances and Organic Peroxides

Hazard Class 6: Toxic Substances and Infectious Substances

- 6A Toxic Substances
- 6B Toxic Substances with LD50 Oral Toxicity of 50 mg/kg or Less
- 6C Category B Infectious Substances
- 6D Sharps Waste and Other Regulated Medical Waste
- 6E Used Health Care Products
- 6F Forensic Material

- 6G Nonregulated Infectious Materials
- 6H Exempt Human or Animal Specimens

Hazard Class 7: Radioactive Materials

■ 7A Radioactive Materials

Hazard Class 8: Corrosives

- 8A Corrosives
- 8B Nonspillable Wet Battery

Hazard Class 9: Miscellaneous Hazardous Materials

- 9A Dry Ice (Carbon Dioxide Solid)
- 9B Magnetized Materials
- 9C Miscellaneous Hazardous Materials
- 9D Lithium and Lithium-ion Cells and Batteries

Category 10: Other Packaging Instructions

■ 10A Small Quantity Provision

USPS Packaging Instruction 1A

Toy Propellant Devices

The proper shipping name for a mailable toy propellant device is "model rocket motor" or "igniter." A device that is assigned identification number NA0323 or UN0454 and classed as a Division 1.4S explosive is eligible for mailing in domestic mail via surface transportation only, provided that all requirements are met and the device is properly packaged as follows.

Proper Shipping Name and ID Number

- Model Rocket Motors, NA0323.
- Igniters, UN0454.

Required Authorization

Prior written permission must be obtained from the Manager, Mailing Standards, USPS Headquarters, Washington, DC (see DMM 608.8 for mailing address).

Mailability

- International Mail: Prohibited.
- Domestic Mail: Permitted only via surface transportation sent as Standard Mail or Parcel Post and with prior approval. Each device must meet the specifications in <u>341.22a</u>.

Design Specifications

Mailable devices must meet each of the following conditions:

- Each device must be ignitable by electrical means only.
- Each device must contain no more than 30g (1.07 ounces) of propellant.

- Each device must produce less than 80 newton seconds of total impulse with thrust duration not less than 0.050 second.
- Each device must be constructed so that all chemical ingredients are preloaded into a cylindrical paper or similarly constructed nonmetallic tube that does not fragment into sharp, hard pieces.
- Each device must be designed so that it will not burst under normal conditions.
- Each device must be incapable of spontaneous ignition under 500° F.
- Each device must not contain any type of explosive or pyrotechnic warhead other than a small, activation-charge, parachute-recovery system.

Required Packaging

Primary Receptacle

- Each device must be packed in a securely sealed primary receptacle.
- Multiple primary receptacles are permitted within a single mailpiece.
- Each primary receptacle must be surrounded by sufficient cushioning material to absorb shock and prevent breakage.

Outer Shipping Container

- A strong outer packaging that is capable of firmly and securely holding the primary receptacle(s) and cushioning material is required.
- Each mailpiece must not exceed a total weight of 25 pounds.

Marking

- Each outer packaging must be clearly marked on the address side with "Toy Propellant Devices," followed by the applicable proper shipping name and UN or NA number. The markings "Surface Only" or "Surface Mail Only" and "Handle With Care" must also appear on the address side of the mailpiece. A DOT hazardous materials warning label must not be affixed.
- A complete mailing address and return address must be used.

Documentation

A properly completed shipper's declaration for dangerous goods must be prepared in triplicate and affixed to the outside of the mailpiece.

Note: Full responsibility rests with the mailer to comply with Bureau of Alcohol, Tobacco, Firearms, and Explosives (BATFE) regulations before mailing. A legible photocopy of the Mailing Standards Manager's approval letter must be presented by the mailer to the Postal Service acceptance clerk at the time of mailing.

USPS Packaging Instruction 1B

Safety Fuse

Safety fuses consist of a core of black powder overspun with yarns, waterproofing compounds, and/or tapes. A safety fuse assigned identification number UN0105 and classed as a Division 1.4S explosive may be mailed only as permitted in 341.22b and when properly packaged as follows.

Proper Shipping Name

Safety Fuse.

ID Number

UN0105.

Required Authorization

 Prior written permission must be obtained from the Manager, Mailing Standards, USPS Headquarters, Washington, DC (see DMM 608.8 for mailing address).

Mailability

- International Mail: Prohibited.
- Domestic Mail: Permitted only via surface transportation sent as Standard Mail or Parcel Post with prior approval.

Required Packaging

Primary Receptacle

- Each device must be packed in a securely sealed primary receptacle.
- Multiple primary receptacles are permitted within a single mailpiece.

Cushioning Material

Each primary receptacle must be surrounded by sufficient cushioning material to absorb shock and prevent breakage.

Outer Packaging

- A strong outer packaging that is capable of firmly and securely holding the primary receptacle(s) and cushioning material is required.
- The outer packaging must be made of fiberboard, wood, or metal. Friction closures or paperboard containers are not acceptable.

Marking

- The outside of the mailpiece must be clearly marked on the address side with "Safety Fuse, UN0105" and "Surface Only" or "Surface Mail Only."
- A complete mailing address and return address must be used.

Documentation

A properly completed shipper's declaration for dangerous goods must be prepared in triplicate, and affixed to the outside of the mailpiece.

Note: Full responsibility rests with the mailer to comply with Bureau of Alcohol, Tobacco, Firearms, and Explosives (BATFE) regulations before mailing. A legible photocopy of the Mailing Standards Manager's approval letter must be presented by the mailer to the Postal Service acceptance clerk at the time of mailing.

USPS Packaging Instruction 2A

Flammable Gases

A Class 2 flammable gas that qualifies as an ORM-D material is mailable provided that all applicable requirements in 342 are met and it is properly packaged as follows.

Proper Shipping Name

Consumer Commodity.

ID Number

■ Various (see Appendix A).

Mailability

- International Mail: Prohibited.
- Domestic Mail: Permitted only via surface transportation sent as Standard Mail or Parcel Post.

Required Packaging

Primary Receptacle

- The capacity of an other-than-metal (nonmetal) primary receptacle must be 4 fluid ounces (7.22 cubic inches) or less per mailpiece.
- The capacity of a metal primary receptacle must be 33.8 fluid ounces (1-liter or 61.0 cubic inches) or less per mailpiece.
- The liquid content of the material and the gas must not completely fill the primary receptacle at 130° F.
- A DOT 2P container must be used if the internal pressure is from 140 psig to 160 psig at 130° F (55° C). A DOT 2Q container must be used if the pressure is from 161 psig to 180 psig at 130° F (55° C).
- A container with an internal pressure more than 180 psig at 130° F (55° C) is prohibited from mailing.
- Primary receptacles must have recessed valves, screw-thread caps, tap closures, or other means to prevent accidental discharge. Valves and fittings must be protected to ensure the integrity of the receptacle during transport.

Cushioning Material

 Sufficient cushioning material must surround the primary receptacle to absorb shock and prevent damage.

Outer Packaging

- Strong outer packaging that is capable of firmly and securely holding the primary receptacle and cushioning material is required.
- Multiple primary receptacles may be securely packed within a single strong outer packaging, provided the total volume of flammable gas does not exceed 33.8 fluid ounces (1 liter) per mailpiece.

Marking

- The address side of the outer packaging must be clearly marked with "Surface Only" or "Surface Mail Only" and "Consumer Commodity ORM-D."
- Optionally, the address side of the outer packaging may bear an approved DOT limited quantity square-on-point marking (see Exhibit 325c), designating surface transportation, prepared under 342.4c, instead of an ORM-D marking.
- A complete return address and delivery address must be used.

USPS Packaging Instruction 2B

Nonflammable Gases

A Class 2 nonflammable gas that can qualify as an ORM-D material may be mailed provided that all applicable requirements in 342 are met and it is properly packaged as follows.

Proper Shipping Name

Consumer Commodity.

ID Number

Various (see Appendix A).

Mailability

- International Mail: Prohibited.
- Domestic Mail: Permitted with restrictions via air transportation (Express Mail, Priority Mail, or First-Class Mail) and permitted via surface transportation sent as Standard Mail or Parcel Post.

Required Packaging

Primary Receptacle(s)

- The capacity of an other-than-metal (nonmetal) primary receptacle must be 4 fluid ounces (7.22 cubic inches) or less per mailpiece.
- The capacity of a metal primary receptacle must be 33.8 fluid ounces (1-liter or 61.0 cubic inches) or less.

- The liquid content of the material and the gas must not completely fill the primary receptacle at 130° F.
- A DOT 2P container must be used if the internal pressure is from 140 psig to 160 psig at 130° F (55° C). A DOT 2Q container must be used if the pressure is from 161 psig to 180 psig at 130° F (55° C).
- A container with an internal pressure more than 180 psig at 130° F (55° C) is prohibited from mailing.
- The primary receptacle(s) must be packaged to protect valves and fittings and to ensure integrity during transport.
- The primary receptacle(s) must have a recessed valve, screw-thread cap, tap closure, or other means to prevent accidental discharge.

Cushioning Material

 Sufficient cushioning material must surround the primary receptacle to absorb shock and prevent damage.

Outer Packaging

- Strong outer packaging that is capable of firmly and securely holding the primary receptacle(s) and cushioning material is required.
- Multiple primary receptacles may be securely packed within a single strong outer packaging.
- Each mailpiece must not exceed a total weight of 25 pounds.

Marking

- For air transportation, each mailpiece must be clearly marked on the address side with "Consumer Commodity ORM-D AIR."
- For surface transportation, each mailpiece must be clearly marked on the address side with "Surface Only" or "Surface Mail Only" and "Consumer Commodity ORM-D."
- Optionally each mailpiece may bear the appropriate DOT limited quantity square-on-point marking (including the appropriate DOT hazardous material warning label when required for air shipments), prepared under 342.4c, instead of an ORM-D or ORM-D AIR marking.
- A complete return address and delivery address must be used.

Documentation

For air transportation, a mailable, nonflammable gas must have a properly completed shipper's declaration for dangerous goods prepared in triplicate and affixed to the outside of the mailpiece.

USPS Packaging Instruction 2C

Fire Extinguishers

A fire extinguisher containing a Division 2.2 compressed, nonflammable gas assigned UN1044 that can qualify as an ORM-D material is mailable if it does not contain a methyl bromide gas mixture or sulfuric acid, and, if the gas is nonflammable, nonpoisonous, or noncorrosive, as specified in 49 CFR 173.309(a). All applicable requirements in 342 must be met, and it must be properly packaged as follows.

Proper Shipping Name

Consumer Commodity.

ID Number

■ UN1044

Mailability

- International Mail: Prohibited.
- Domestic Mail: Permitted with restrictions via air transportation (Express Mail, Priority Mail, or First-Class Mail) and permitted via surface transportation sent as Standard Mail or Parcel Post.

Required Packaging

Primary Receptacle

- The primary receptacle must be a DOT specification 2P or 2Q container that meets the requirements in 49 CFR 173.309(a)(4).
- Only one primary receptacle not exceeding 1 liter (33.8 ounces) is permitted per mailpiece.

Cushioning Material

 Sufficient cushioning material must surround the primary receptacle to absorb shock and prevent damage.

Outer Packaging

 Strong outer packaging that is capable of firmly and securely holding the primary receptacle and cushioning material is required.

Marking

- For air transportation, each mailpiece must be clearly marked on the address side with "Consumer Commodity ORM-D AIR."
- For surface transportation, each mailpiece must be clearly marked on the address side with "Surface Only" or "Surface Mail Only" and "Consumer Commodity ORM-D."
- Optionally each mailpiece may bear the appropriate DOT limited quantity square-on-point marking (including the appropriate DOT hazardous material warning label when required for air shipments), prepared under 342.4c, instead of an ORM-D or ORM-D AIR marking.
- A complete return address and delivery address must be used.

Documentation

 For air transportation, a properly completed shipper's declaration for dangerous goods must be prepared in triplicate and affixed to the outside of the mailpiece.

Note: Fire extinguishers assigned UN0275, UN0276, UN0323, and UN0381 are prohibited from mailing. However, fire extinguishers assigned UN1774 are mailable as Class 8 corrosives subject to the limitations for corrosives in 348 and DMM 601.10.19.

USPS Packaging Instruction 2D

Foodstuffs and Soap Products

Foodstuffs and soap products that are held in containers under pressure are mailable in the domestic mail via surface transportation if they qualify as ORM-D materials and all applicable requirements in 342 are met.

Proper Shipping Name

Consumer Commodity.

ID Number

■ Various (see Appendix A).

Mailability

- International Mail: Prohibited.
- Domestic Mail: Permitted only via surface transportation sent as Standard Mail or Parcel Post.

Required Packaging

Primary Receptacle

- Acceptable only in a nonrefillable metal primary receptacle not exceeding 61.0 cubic inches (1 liter) with soluble or emulsified compressed gas.
- Liquid content of the material and the gas must not completely fill the primary receptacle at 130° F, the pressure in the primary receptacle must be 140 psig or less at 130° F, and the metal primary receptacle must be able to withstand one-and-one-half times the equilibrium pressure of the content at 130° F.

Cushioning Material

■ The primary receptacle must be surrounded by sufficient cushioning material to absorb shock and prevent damage.

Outer Packaging

Strong outer packaging that is capable of firmly and securely holding the primary receptacle and cushioning material is required.

Multiple primary receptacles may be securely packed within a single outer packaging up to a weight limit of 25 pounds (11.325 kg) per mailpiece.

Marking

- The address side of each outer packaging must be clearly marked with "Inside Containers Comply With Prescribed Regulations" per 49 CFR 173.306(b)(1).
- Each mailpiece must be clearly marked on the address side with "Surface Only" or "Surface Mail Only" and "Consumer Commodity ORM-D."
- Optionally, each mailpiece may bear an approved DOT limited quantity square-on-point marking, designating surface transportation, prepared under 342.4c, instead of an ORM-D marking.
- A complete return address and delivery address must be used.

USPS Packaging Instruction 2E

Audible Fire Alarm Systems

An audible fire alarm system powered by a compressed gas is mailable only in domestic mail via surface transportation provided that the system qualifies as an ORM-D material and all applicable requirements in 342 are met.

Proper Shipping Name

Consumer Commodity.

ID Number

■ Various (see Appendix A).

Mailability

- International Mail: Prohibited.
- Domestic Mail: Permitted only via surface transportation sent as Standard Mail or Parcel Post.

Required Packaging

Primary Receptacle

- The content of the primary receptacle is a nonflammable, nonpoisonous, or noncorrosive gas.
- The gas is contained within a metal primary receptacle that has a capacity of 19.3 fluid ounces (35 cubic inches) or less, does not exceed a pressure of 70 psig at 70° F, and is not completely filled at 130° F.
- Each nonrefillable primary receptacle must be designed to withstand a burst pressure of not less than 4 times its charged pressure at 130° F.
- Each refillable primary receptacle must be designed to withstand a burst pressure of not less than 5 times its charged pressure at 130° F.

Cushioning Material

The primary receptacle must be surrounded by sufficient cushioning material to absorb shock and prevent breakage.

Outer Packaging

- Strong outer packaging that is capable of firmly and securely holding the primary receptacle and cushioning is required.
- Multiple primary receptacles may be securely packed within a single outer packaging up to a weight limit of 25 pounds (11.325 kg) per mailpiece.

Marking

- Each mailpiece must be clearly marked on the address side with "Surface Only" or "Surface Mail Only" and "Consumer Commodity ORM-D."
- Optionally, each mailpiece may bear an approved DOT limited quantity square-on-point marking, designating surface transportation, prepared under 342.4c, instead of an ORM-D marking.
- A complete return address and delivery address must be used.

USPS Packaging Instruction 2F

Biological Products or Medical Preparations

A product or preparation in a nonrefillable metal primary receptacle charged with a nonflammable solution containing biological products or a medical preparation that could deteriorate by heat may be accepted in the domestic mail via surface transportation only provided that the item qualifies as an ORM-D material and all applicable requirements in 342 are met.

Proper Shipping Name

Consumer Commodity.

ID Number

Various (see Appendix A).

Mailability

- International Mail: Prohibited.
- Domestic Mail: Permitted only via surface transportation sent as Standard Mail or Parcel Post.

Packaging Requirements

Primary Receptacle

Capacity of the primary receptacle must be 19.3 fluid ounces (35 cubic inches) or less, pressure in the primary receptacle must be 140 psig or less at 130° F, and the liquid content of product and gas must not completely fill the container at 130° F.

- If heated until the pressure in the primary receptacle is equivalent to equilibrium pressure of content at 130° F, the primary receptacle must be able to withstand leakage, distortion, or other damage or defects.
- Only one primary receptacle is permitted per mailpiece.

Cushioning Material

■ The primary receptacle must be surrounded by sufficient cushioning material to absorb shock and prevent breakage.

Outer Packaging

- Strong outer packaging that is capable of firmly and securely holding the primary receptacle and cushioning is required.
- Multiple primary receptacles are not permitted.

Marking

- Each mailpiece must be clearly marked on the address side with "Surface Only" or "Surface Mail Only" and "Consumer Commodity ORM-D."
- Optionally, each mailpiece may bear an approved DOT limited quantity square-on-point marking, designating surface transportation, prepared under 342.4c, instead of an ORM-D marking.
- A complete return address and delivery address must be used.

USPS Packaging Instruction 3A

Flammable Liquids

A flammable liquid having a flashpoint greater than 20° F (-7° C) but less than 100° F (38° C) is mailable in domestic mail via surface transportation, if the liquid can qualify as an ORM-D material and all applicable requirements in 343 are met.

Flammable liquids having a flashpoint of 20° or less are not mailable.

Flammable liquids mailed under DOT-SP 9275 must be prepared and marked as specified in 343.27 or DMM 601.10.13.5.

Proper Shipping Name

Consumer Commodity.

ID Number

Various (see Appendix A).

Mailability

- International Mail and APO/FPO: Prohibited.
- Domestic Mail: Permitted only via surface transportation sent as Standard Mail or Parcel Post. Prohibited by air.

Required Packaging

Separate packaging requirements apply depending on the flashpoint of the flammable liquid.

For flashpoint greater than 20° F (-7° C) but not more than 73° F (23° C):

Primary Receptacle

- A metal primary receptacle must not exceed 1 quart.
- A nonmetal primary receptacle must not exceed 1 pint.
- The primary receptacle must have a screw cap (with minimum of one-and-one-half turns), soldering clips, or other means of secure closure (friction tops are not acceptable).
- Only one primary receptacle is permitted per mailpiece.

Cushioning Material and Secondary Packaging

- Enough cushioning material must surround the primary receptacle to prevent breakage and absorb any potential leakage.
- The cushioning and primary receptacle must be packed in securely sealed secondary packaging.

Outer Packaging

 Strong outer packaging that is capable of firmly and securely holding the primary receptacle, cushioning material, and secondary packaging is required.

Marking

- Each mailpiece must be clearly marked on the address side with "Surface Only" or "Surface Mail Only" and "Consumer Commodity ORM-D."
- Optionally, each mailpiece may bear an approved DOT limited quantity square-on-point marking, designating surface transportation, prepared under 343.3c, instead of an ORM-D marking.
- A complete return address and delivery address must be used.

For flashpoint greater than 73° F (23° C) but less than 100° F (38° C):

Primary Receptacle

- A metal primary receptacle must not exceed 1 gallon.
- A nonmetal primary receptacle must not exceed 1 quart.
- The primary receptacle must have a screw cap (with minimum of one-and-one-half turns), soldering clips, or other means of secure closure (friction tops are not acceptable).
- Only one primary receptacle is permitted per mailpiece.

Cushioning Material and Secondary Packaging

- Enough cushioning material must surround the primary receptacle to prevent breakage and absorb any potential leakage.
- The cushioning and primary receptacle must be packed in securely sealed secondary packaging.

Outer Packaging

 Strong outer packaging that is capable of firmly and securely holding the primary receptacle, cushioning material, and secondary packaging is required.

Marking

- Each mailpiece must be clearly marked on the address side with "Surface Only," or "Surface Mail Only" and "Consumer Commodity ORM-D."
- A complete return address and delivery address must be used.

For flashpoint of at least 100° F (38° C) but not more than 141° F (60.5° C):

Use Packaging Instruction 3B.

USPS Packaging Instruction 3B

Combustible Liquids

A combustible liquid having a flashpoint of 141° F (60.5° C) but no more than 200° F (93° C) is mailable if it can qualify as an ORM-D material and meet all applicable requirements in 343. A flammable liquid having a flashpoint of at least 100° F (38° C) but not more than 141° F (60.5° C) may be reclassed as a combustible liquid within the limits of 49 CFR 173.120(b).

Proper Shipping Name

Consumer Commodity.

ID Number

■ Various (see Appendix A).

Mailability

- International Mail: Prohibited.
- Domestic Mail: Permitted with restrictions via air transportation (Express Mail, Priority Mail, or First-Class Mail rates) only when the flashpoint is above 141° F (60.5° C) and via surface transportation sent as Standard Mail or Parcel Post.

Required Packaging

Separate packaging requirements apply, depending on the flashpoint of the combustible liquid.

For flashpoint of at least 100° F (38° C) but not more than 141° F (60.5° C):

General

Permitted only in domestic mail via surface transportation.

Primary Receptacle

- The capacity of a metal primary receptacle must not exceed 1 gallon.
- A nonmetal primary receptacle must not exceed 1 quart.
- Only one primary receptacle is permitted per mailpiece.

Absorbent and Cushioning Material

Enough absorbent and cushioning material must surround the primary receptacle to prevent breakage and absorb any potential leakage.

Secondary Packaging

The cushioning and primary receptacle must be packed in a securely sealed secondary packaging.

Outer Packaging

 Strong outer packaging that is capable of firmly and securely holding the primary receptacle, cushioning material, and secondary packaging is required.

Marking

- Each mailpiece must be plainly and durably marked on the address side with "Surface Only" or "Surface Mail Only" and "Consumer Commodity ORM-D."
- Optionally each mailpiece may bear the appropriate DOT limited quantity square-on-point marking (including the appropriate DOT hazardous material warning label when required for air shipments), prepared under 343.3c, instead of an ORM-D or ORM-D AIR marking.
- A complete return address and delivery address must be used.

For flashpoint above 141° F (60.5° C) but not more than 200° F (93° C):

General

Permitted in domestic mail via air or surface transportation.

Primary Receptacle

- The capacity of the primary receptacle must not exceed 1 gallon.
- Only one primary receptacle is permitted per mailpiece.

Absorbent and Cushioning Material

■ Enough absorbent and cushioning material must surround the primary receptacle to prevent breakage and absorb all potential leakage.

Secondary Packaging

■ The cushioning and primary receptacle must be packed in a securely sealed secondary packaging.

Outer Packaging

Strong outer packaging that is capable of firmly and securely holding the primary receptacle, cushioning material, and secondary packaging is required.

Marking

- For air transportation, each mailpiece must be clearly marked on the address side with "Consumer Commodity ORM-D AIR."
- For surface transportation, each mailpiece must be clearly marked on the address side with "Surface Only" or "Surface Mail Only" "Consumer Commodity ORM-D."
- A complete return address and delivery address must be used.

Documentation

For air transportation, a properly completed shipper's declaration for dangerous goods must be prepared in triplicate and affixed to the outside of the mailpiece.

For flashpoint above 200° F (93° C):

General

The material is not regulated as a hazardous material. Therefore, it is permitted in domestic mail via air or surface transportation without restriction when properly packaged to prevent leakage during transport.

Primary Receptacle

- Each primary receptacle must be sturdy and have a secure method of closure
- Multiple primary receptacles may be enclosed within a single mailpiece.

Absorbent and Cushioning Material

 Enough absorbent and cushioning material must surround the primary receptacle to prevent breakage and absorb all potential leakage.

Outer Packaging

Strong outer packaging that is capable of firmly and securely holding the primary receptacle and cushioning material is required.

Marking

A complete return address and delivery address must be used.

USPS Packaging Instruction 3C

Cigarette Lighters

A cigarette lighter equipped with an ignition element and containing fuel is classified as a Class 3 flammable liquid. A cigarette lighter containing a flammable gas is classed as a Division 2.1 flammable gas. A cigarette lighter that contains either flammable liquid or flammable gas is permitted in domestic mail via surface transportation only with prior written approval, provided all applicable requirements of 343.25 are met.

Proper Shipping Name and ID Number

Lighters or Lighter Refills, UN1057.

Required Authorization

■ The design of the lighter and its packaging must be approved by the DOT Associate Administrator for Hazardous Material Safety, per 49 CFR 173.21(i) and 173.308, and a DOT Approval Number (T-Number) must have been issued. Prior to mailing, the mailer must request and obtain written approval from the PCSC manager. (See 343.25 and DMM 601.10.13.4.)

Mailability

- International Mail: Prohibited.
- Domestic Mail: Permitted only via surface transportation sent as Standard Mail or Parcel Post.

Required Packaging

Primary Receptacle

The design of the lighter must be approved by DOT (see "Required Authorization" above).

Cushioning Material

 Sufficient cushioning material must be used to absorb shock and protect the lighter from breakage.

Outer Packaging

- The packaging must be designed to protect the lighter's sparking mechanism from accidental ignition caused by friction or external pressure during transport.
- The outer packaging must be of sufficient strength to prevent the inner contents from breaking or bursting through.

Marking

- The address side of each mailpiece must be clearly marked with "Surface Only" or "Surface Mail Only" and "Lighters" or "Lighter Refills" followed by the T-Number.
- A complete return address and delivery address must be used.

Note: A legible photocopy of the PCSC manager's approval letter must accompany the mailing at the time of deposit.

USPS Packaging Instruction 4A

Flammable Solids

A flammable solid that can qualify as an ORM-D material is permitted in the domestic mail via surface transportation only, provided all applicable requirements in 344 are met.

Proper Shipping Name

Consumer Commodity.

ID Number

Various (see Appendix A).

Mailability

- International Mail: Prohibited.
- Domestic Mail: Permitted only via surface transportation sent as Standard Mail or Parcel Post.

Required Packaging

Primary Receptacle

- The primary receptacle must have a secure seal and together with its contents must not exceed a weight of 1 pound.
- Multiple primary receptacles are permitted.

Cushioning Material

 Sufficient cushioning material must be used to absorb shock and the primary receptacle from breakage.

Outer Packaging

- Strong outer packaging that is capable of firmly and securely holding the primary receptacle and cushioning material is required.
- Each mailpiece must not exceed a total weight of 25 pounds.

Marking

- Each mailpiece must be clearly marked on the address side with "Surface Only" or "Surface Mail Only" and "Consumer Commodity ORM-D."
- Optionally, each mailpiece may bear an approved DOT limited quantity square-on-point marking, designating surface transportation, prepared under 344.3c, instead of an ORM-D marking.
- A complete return address and delivery address must be used.

USPS Packaging Instruction 4B

Safety Matches

Safety matches (book, card, or strike-on-box) may be mailed only in domestic mail via surface transportation, provided all applicable requirements in 344 are met, including:

- They do not ignite spontaneously under conditions normally incident to transportation or when subjected for eight consecutive hours to a temperature of 200° F (93° C).
- They cannot be readily ignited by friction unless struck on their own or on a similar box, card, or book.

Note: Strike-anywhere matches assigned UN1331 and other types of matches assigned UN2254 or UN1945 are nonmailable.

Proper Shipping Name

Matches, Safety.

ID Number

■ UN1944.

Mailability

- International Mail: Prohibited.
- Domestic Mail: Permitted only via surface transportation sent as Standard Mail or Parcel Post.

Required Packaging

Primary Receptacle

- Mailable types of safety matches must be tightly packed in a securely sealed primary receptacle to prevent any shifting or movement that could cause accidental ignition by rubbing against adjoining items.
- Multiple primary receptacles are permitted per mailpiece.

Outer Packaging

- The outer packaging material must be made of fiberboard, wood, or other equivalent and be strong enough to prevent the inner contents from bursting through.
- The primary container(s) must be snugly packed within the outer packaging.
- Each mailpiece must not exceed a total weight of 25 pounds.

Marking

- The address side of each mailpiece must be clearly marked "Surface Only" or "Surface Mail Only" and either "Book Matches", "Card matches," or "Strike-on-Box Matches," as applicable.
- A complete return address and delivery address must be used.

Documentation

A shipping paper is not required.

USPS Packaging Instruction 5A

Oxidizing Substances, Organic Peroxides

An oxidizing substance or an organic peroxide that can qualify as an ORM-D material is permitted in the domestic mail, provided that all applicable requirements in 345 are met.

Proper Shipping Name

Consumer Commodity.

ID Number

Various (see Appendix A).

Mailability

- International Mail: Prohibited.
- Domestic Mail: Permitted, with restrictions, via air transportation (Express Mail, Priority Mail, and First-Class Mail), or surface transportation sent as Standard Mail or Parcel Post.

Required Packaging

Primary Receptacle

- For liquids, the capacity of the primary receptacle must not exceed 1 pint (.0473 liters).
- For solids, the weight of the contents of the primary receptacle must not exceed 1 pound (.0453 kg).
- Multiple primary receptacles are permitted up to a total weight of 25 pounds per mailpiece.

Absorbent and Cushioning Material

■ Enough absorbent and cushioning material must surround the primary receptacle to prevent breakage and absorb all potential leakage.

Secondary Packaging

For liquids only, the cushioning and primary receptacle must be packed in a secondary leak-resistant packaging or material that is securely sealed.

Outer Packaging

- Strong outer packaging that is capable of firmly and securely holding the primary receptacle and cushioning material is required.
- Each mailpiece must not exceed a total weight of 25 pounds.

Marking

- For air transportation, each mailpiece must be clearly marked on the address side with "Consumer Commodity ORM-D AIR."
- For surface transportation, each mailpiece must be clearly marked on the address side with "Surface Only" or "Surface Mail Only" and "Consumer Commodity ORM-D."
- Optionally each mailpiece may bear the appropriate DOT limited quantity square-on-point marking (including the appropriate DOT hazardous material warning label when required for air shipments), prepared under 345.3d, instead of an ORM-D or ORM-D AIR marking.
- A complete return address and delivery address must be used.

Documentation

- For air transportation, a mailable material must have a properly completed shipper's declaration for dangerous goods that is prepared in triplicate affixed to the outside of the mailpiece.
- The shipper's declaration must be properly completed and signed by the mailer.

USPS Packaging Instruction 6A

Toxic Substances

A Division 6.1 toxic substance that qualifies as an ORM-D material is permitted in the domestic mail via air or surface transportation when all applicable requirements in 346 are met.

Proper Shipping Name

Consumer Commodity.

ID Number

Various (see Appendix A).

Mailability

- International Mail: Prohibited.
- Domestic Mail: Permitted via air transportation (Express Mail, Priority Mail, and First-Class Mail) or surface transportation sent as Standard Mail or Parcel Post.

Required Packaging

Primary Receptacle

- The primary container must be of sufficient strength and have a secure method of closure.
- The capacity of the primary receptacle(s) per mailpiece must not exceed 8 ounces.

Absorbent and Cushioning Material

■ Enough absorbent and cushioning material must surround the primary receptacle to prevent breakage and absorb all potential leakage.

Outer Shipping Container

- Strong outer packaging that is capable of firmly and securely holding the primary receptacle and cushioning material is required.
- The inner receptacle and cushioning material must fit snugly within the outer packaging.

Marking

- For air transportation, each mailpiece must be clearly marked on the address side with "Consumer Commodity ORM-D AIR."
- For surface transportation, each mailpiece must be clearly marked on the address side with "Surface Only" or "Surface Mail Only" and "Consumer Commodity ORM-D."
- Optionally each mailpiece may bear the appropriate DOT limited quantity square-on-point marking (including the appropriate DOT hazardous material warning label when required for air shipments), prepared under 346.31b, instead of an ORM-D or ORM-D AIR marking.
- A complete return address and delivery address must be used.

Documentation

For air transportation, a mailable material must have a properly completed shipper's declaration for dangerous goods that is prepared in triplicate and affixed to the outside of the mailpiece.

USPS Packaging Instruction 6B

Toxic Substances With LD₅₀ Oral Toxicity of 50 mg/kg or Less

A Division 6.1 toxic substance having an LD_{50} for oral toxicity of greater than 5 mg/kg but less than or equal to 50 mg/kg is mailable only between authorized parties under the specific conditions in $\underline{346.231b}$ and DMM 601.10.16.

Proper Shipping Name

Various (see Appendix A).

ID Number

■ Various (see Appendix A).

Mailability

- International Mail: Prohibited.
- Domestic Mail: Permitted only between authorized parties via air transportation (Express Mail, Priority Mail, or First-Class Mail) or surface transportation sent as Standard Mail or Parcel Post.

Authorized Mailers

Toxic substances that have an LD_{50} for oral toxicity of greater than 5 mg/kg but less than or equal to 50 mg/kg may be mailed between the following parties subject to these specific conditions:

- Toxic substances for scientific use (not outwardly or of their own force dangerous or injurious to life, health, or property) may be sent only between manufacturers, dealers, bona fide research or experimental scientific laboratories, and employees of federal, state, or local governments who have official use for such poisons and are designated by the agency head to receive or send such poisons.
- Poisonous drugs and medicines that are regulated as Division 6.1 materials may be sent only from the manufacturer or dealer of the drugs and medicines to licensed physicians, surgeons, dentists, pharmacists, druggists, cosmetologists, barbers, and veterinarians (18 U.S.C. 1716).

Note: Drugs and medicines that are not regulated as Division 6.1 materials are subject to the conditions in chapter 4 and DMM 601.11.11.

Required Packaging

Primary Receptacle

- The total volume in the primary receptacle must not exceed 8 ounces.
- The primary receptacle must be leak-resistant and have a secure method of closure.

Absorbent and Cushioning Material

- Each primary receptacle that contains a liquid material must be completely surrounded by absorbent material capable of completely taking up all the contents in the event of breakage.
- Sufficient cushioning material must surround the primary receptacle(s) to absorb shocks and prevent damage.

Secondary Container

- For toxic liquids the secondary container must be leakproof.
- For toxic solids the secondary container must be siftproof.
- The primary receptacle, absorbent material, and cushioning material must fit firmly and securely within the secondary packaging to absorb shocks and prevent breakage during normal postal handling.

Outer Shipping Container

- The outer container must be constructed of 200-pound grade corrugated fiberboard or equivalent strength.
- The secondary container must fit firmly and securely within the outer shipping container packaging to prevent breakage during normal postal handling.

Marking

- The proper shipping name and UN number of the toxic material must be clearly marked on the address of the mailpiece.
- Orientation markings (see <u>Exhibit 226</u>) that properly indicate the upright position of the primary receptacle(s) must be displayed on two opposite outer side walls of the outer shipping container.
- Each mailpiece must bear a complete return address and delivery address. The delivery address must be placed on the top side of the mailpiece.

Documentation

For air or surface transportation, a properly completed shipper's declaration for dangerous goods (i.e., shipping paper) must be prepared in triplicate and affixed to the outside of the mailpiece.

USPS Packaging Instruction 6C

Category B Infectious Substances

DMM Reference 601.10.7.4

Infectious substance means a material known or reasonably expected to contain a pathogen. A pathogen is a microorganism that can cause disease in humans or animals. Examples of pathogens include bacteria, viruses, fungi, and other infectious agents. An infectious substance must be assigned to one of the following two packaging categories:

- Category A: Category A infectious substances are not mailable.
- Category B: An infectious substance that does not meet the criteria for inclusion in Category A. A mailpiece known or suspected to contain a Category B infectious substance is mailable as described in <u>346</u> and DMM 601.10.17.

Proper Shipping Name and ID Number

■ Biological substance, Category B, UN3373.

Mailability

- International Mail: Mailable when they meet the definition in <u>346.12a2</u> and IMM 135 when written approval has been granted by the manager of Product Classification. Category B infectious substances may be sent with registered First-Class Package International Service or the Priority Mail International Small Flat Rate Priced Boxes using Registered Mail service.
- Domestic Mail: Mailable only when they are intended for medical or veterinary use, research, or laboratory certification related to the public health, and when such materials are properly prepared for mailing to withstand shocks, pressure changes, and other conditions related to ordinary handling in transit. Unless otherwise noted, all mailable Division 6.2 materials must meet the mail preparation requirements for air transportation and sent with First-Class Mail, Priority Mail, or Express Mail service.

Required Packaging

Must be triple-packaged, meeting the packaging requirements in 49 CFR 173.199, and surrounded by absorbent material sufficient to protect the primary receptacle and absorb the total amount of liquid should the primary receptacle leak or break.

Primary Receptacle (Container)

- Each primary receptacle containing a liquid must be leakproof. Each primary receptacle containing a solid must be siftproof.
- A single primary receptacle must not contain more than 1 liter (34 ounces) of a liquid specimen or 4 kg (8.8 pounds) of a solid specimen.

Two or more primary receptacles whose combined volume does not exceed 4 liters (1 gallon) for liquids or 4 kg (8.8 pounds) for solids may be enclosed in a single secondary container.

Cushioning and Absorbent Material

- The space between the primary receptacle(s) and the secondary container at the top, bottom, and sides must contain enough material to absorb the entire contents of the primary receptacle(s) in case of breakage or leakage.
- Either the primary receptacle or the secondary container must be capable of withstanding, without leakage, an internal pressure that produces a pressure differential of not less than 0.95 bar, 14 psi (95 kPa), and temperatures in the range of −40° F to 131° F (−40° C to 55° C).

Secondary Container

- Secondary containers for liquids must be leakproof. Secondary containers for solids must be siftproof. The secondary packaging must be constructed of a durable material and have a secure sealing method.
- If the primary receptacle does not meet the pressure requirements listed above, then the secondary container must be designed to meet those requirements.
- The secondary container must be marked with the international biohazard symbol shown in Exhibit 346.321.

Outer Shipping Container

- The address side of the outer shipping container must be marked with the proper shipping name "Biological Substance, Category B" and UN3373. See Exhibit 346.12a2.
- The address side of the outer shipping container must be marked with the name and telephone number of a person who is knowledgeable about the material shipped and has comprehensive emergency response and incident mitigation information, or someone who has immediate access to the person with such knowledge and information.
- The primary and secondary packaging must be enclosed in a rigid outer shipping container. The primary receptacle(s) and the secondary container must be enclosed in a strong outer packaging constructed of fiberboard or other equivalent material.
- At least one surface of the outer shipping container must have a minimum dimension of 3.9 inches by 3.9 inches (100 mm by 100 mm) as required by 49 CFR 173.199.

Markings

As required by 49 CFR 173.199:

■ Each mailpiece (outer shipping container) must be marked with the proper shipping name "Biological Substance, Category B" and have the diamond marking indicating UN3373 (see Exhibit 346.12a2).

- The address side of the outer shipping container must be marked with name and telephone number of a person who is knowledgeable about the material shipped and has comprehensive emergency response and incident mitigation information, or someone who has immediate access to the person with such knowledge and information.
- Orientation arrows are not required on these mailpieces but may be used.

International Mail

Substances identified in IMM 135.11b must be sent only by authorized laboratories to their foreign counterparts in those countries that have indicated a willingness to accept them.

Note: Countries distinguish between infectious and noninfectious (nonregulated) biological substances and may prohibit one or the other or both. See "Prohibitions" in the Individual Country Listings.

- Infectious biological substances can be sent to or received by only the following types of institutions:
 - a. Laboratories of local, state, and federal government agencies.
 - b. Laboratories of federally licensed manufacturers of biological products derived from bacteria and viruses.
 - c. Laboratories affiliated with or operated by hospitals, universities, research facilities, and other teaching institutions.
 - d. Private laboratories licensed, certified, recognized, or approved by a public authority.

USPS Packaging Instruction 6D

Sharps Waste and Other Regulated Medical Waste

DMM Reference 601.10.17.5

Regulated medical waste and sharps medical waste known or suspected to contain a Category A infectious substance is not mailable. Regulated medical waste and sharps medical waste as defined in 346.12f and 346.12g and containing materials classified as Category B infectious substances are permitted for mailing provided that all applicable requirements specified in 346.322 and DMM 601.10.17.5 are met.

For packaging instructions for medical professional packages, refer to 346.322b-d or DMM 601.10.17.

Proper Shipping Name and ID Number

- Regulated Medical Waste, UN3291.
- Sharps Medical Waste, UN3291.

Required Authorization

Each vendor of a complete regulated medical waste or sharps waste mailing container system (including all component parts required to safely mail such waste to a storage or disposal facility) must obtain authorization from the Postal Service prior to mailing. The vendor in whose name the authorization is being sought must submit a written request to the manager of Mailing Standards, Postal Service Headquarters (see DMM 608.8.0 for address).

Mailability

- International Mail: Prohibited.
- Domestic Mail: permitted for mailing only using merchandise return service (see DMM 507.10.0) with First-Class Mail or Priority Mail service.

Required Packaging

General

Only regulated medical waste and sharps medical waste mailing container systems approved by Postal Service Headquarters may be mailed. Approved packaging must meet all requirements in 346.322b, including a leakproof primary receptacle (also puncture-resistant for sharps medical waste), a water-resistant secondary containment system, enough material within the primary receptacle to absorb and retain three times the total liquid allowed within the primary receptacle, and a step-by-step instruction sheet that details the sequence and method of container assembly prior to mailing.

Marking

- Each primary receptacle and outer shipping container must bear a label, which cannot be detached intact, showing the name of the vendor, the USPS Authorization Number, and the container ID number. Place the label on the top or on a side of the container.
- The primary receptacle(s) and the outer shipping container must bear the international biohazard symbol in black with either a fluorescent orange or fluorescent red background as shown in Exhibit 346.321.
 The symbol on the outer shipping container must be at least 3 inches high and 4 inches wide.
- The outer shipping container must bear a properly prepared merchandise return service label (see DMM 507.10.0). The merchandise return service permit must be held in the same name as that of the authorized medical waste vendor.
- The outer shipping container must be marked on two opposite side walls with the package orientation marking in 49 CFR 173.312 to identify the proper upright position of the mailpiece during handling.
- Mailpieces containing regulated medical waste or sharps waste must be marked on the address side with the correct UN number and proper shipping name (e.g., "Regulated Medical Waste, UN3291" or "Regulated Medical Waste-Sharps, UN3291").

Documentation

Each mailpiece must have a four-part waste shipping paper. The shipping paper must be affixed to the outside of the mailpiece in an envelope or similar carrier that can be easily opened and resealed to allow review of the document. The shipping paper must comply with all applicable requirements imposed by the laws of the state from which the container system is mailed. At a minimum, the information in Exhibit 346.322c3 must be on the shipping paper.

USPS Packaging Instruction 6E

Used Health Care Products

DMM Reference 601.10.17.6

"Used health care product" means a medical, diagnostic, or research device or piece of equipment, or a personal care product used by consumers, medical professionals, or pharmaceutical providers, that does not meet the definition of a diagnostic specimen, biological product, regulated medical waste, or sharps waste, is contaminated with potentially infectious body fluids or materials, and is not decontaminated or disinfected to remove or mitigate the infectious hazard prior to transport.

Proper Shipping Name

Not applicable.

Mailability

- International Mail: Prohibited.
- Domestic Mail: A used health care product known or reasonably suspected to contain a Category A material is not mailable. A used health product not suspected to contain infectious material, or that is known or suspected to contain Category B infectious substances, and is being returned to the manufacturer or manufacturer's designee is mailable with First-Class Mail, Priority Mail, or Express Mail service.

Required Packaging

Each used health care product must be drained of liquid to the extent possible and placed in a watertight primary receptacle designed and constructed to ensure that it remains intact under normal conditions of transport. For a used health care product capable of cutting or penetrating skin or packaging material, the primary receptacle must be capable of retaining the product without puncture of the packaging under normal conditions of transport.

Primary Container

- The primary receptacle must be capable of retaining the product without puncture of the packaging under normal conditions of transport.
- Each primary receptacle must be placed inside a watertight secondary container designed and constructed to ensure that it remains intact under normal conditions of transport.
- The primary receptacle must be marked with the international biohazard symbol shown in Exhibit 346.321.

Secondary Container

- Each primary receptacle must be placed inside a watertight secondary container designed and constructed to ensure that it remains intact under normal conditions of transport.
- The secondary container must also be marked with the international biohazard symbol shown in Exhibit 346.321.

Outer Shipping Container

■ The secondary container must be placed inside an outer shipping container with sufficient cushioning material to prevent movement between the secondary container and the outer shipping container. An itemized list of the contents of the primary receptacle and information concerning possible contamination with a Division 6.2 material, including its possible location on the product, must be placed between the secondary container and the outer shipping container.

Marking/Documentation

A shipping paper and content marking on the outer shipping container are not required.

USPS Packaging Instruction 6F

Forensic Material

DMM Reference 601.10.17.7

Forensic material containing a biological material, such as tissue, body fluid, excreta, or secreta, and sent on behalf of a federal, state, local, or Indian tribal government agency must be packaged under 346.325 when it is not known or suspected to contain a Category A or Category B infectious substance. Forensic material known or suspected to contain a Category A infectious substance is not mailable. Forensic material known or suspected to contain a Category B infectious substance as identified in 346.321 is mailable with First-Class Mail, Priority Mail, or Express Mail service when triple-packaged in a primary receptacle, secondary container, and a rigid outer shipping container.

Proper Shipping Name

Not applicable.

Mailability

- International Mail: A material that is classified as a Category B infectious substance and that meets the definition in 346.12a must be triple-packaged as identified in 346.324, meeting the packaging requirements in 49 CFR 173.199, and sent by First-Class Package International Service.
- Domestic Mail: Forensic material known or suspected to contain a Category B infectious substance as identified in <u>346.321</u> is mailable with First-Class Mail, Priority Mail, or Express Mail service.

Required Packaging

Primary Receptacle

- The forensic material must be held within a securely sealed primary receptacle. The primary receptacle must be surrounded by sufficient absorbent material (for liquids) and cushioning material to protect the primary container from breakage. The absorbent material must be capable of taking up the entire liquid contents of the primary receptacle in case of leakage. Each primary receptacle containing a solid must be siftproof. The primary receptacle must be marked with the international biohazard symbol shown in Exhibit 346.321.
- The primary receptacle and the absorbent and cushioning material must be enclosed in a watertight and securely sealed secondary container.

Secondary Container

The secondary container must be firmly and snugly packed within a strong outer shipping container that is securely sealed. The secondary container must also display the international biohazard symbol shown in <u>Exhibit</u> 346.321.

Outer Shipping Container

The secondary container must fit snugly packed within a strong outer shipping container that is securely sealed.

Marking/Documentation

- A shipping paper and content markings on the outer shipping container are not required.
- Each mailpiece must have a complete delivery and return address.

USPS Packaging Instruction 6G

Nonregulated Infectious Materials

DMM Reference 601.10.17.8

Nonregulated materials as defined in <u>346.234</u> are not subject to regulation as hazardous materials but must be properly packaged when presented for mailing. Nonregulated materials include biological product, blood collected for the purpose of blood transfusion, blood products and blood components collected for the purpose of transfusion, dried blood spots, forensic material not expected of containing a Category A or Category B infectious substance and transported on behalf of a government agency. For a complete description of nonregulated materials, see <u>346.234</u>.

Proper Shipping Name and ID Number

Not applicable (not regulated under 49 CFR as a hazardous material in domestic commerce).

Mailability

- International Mail: Nonregulated materials identified in <u>346.234</u> are mailable but must be properly packaged as indicated in <u>346.325</u> when presented for mailing.
- Domestic Mail: Permitted only via First-Class Mail, Priority Mail, Express Mail, or Package Services.

Required Packaging

Liquid Patient Specimens and Biological Products

Exceeding 50 ml

Material must be packaged in a securely sealed primary receptacle. A single primary receptacle must not contain more than 500 ml of specimen. Two or more primary receptacles whose combined volume does not exceed 500 ml may be enclosed in a single secondary container. The secondary container must be securely and snugly enclosed in a fiberboard box or container of equivalent strength that serves as the outer shipping container.

Not Exceeding 50 ml

A patient specimen or biological product consisting of 50 ml or less per mailpiece must be packaged in a securely sealed primary receptacle. Two or more primary receptacles whose combined volume does not exceed 50 ml may be enclosed within a single mailpiece. The secondary container can also serve as the outer shipping container. In that case, the biohazard symbol must appear on the inner packaging or on the primary container.

Absorbent and Cushioning Material

Sufficient absorbent material and cushioning material to withstand shock and pressure changes must surround the primary receptacle(s), or be otherwise configured to take up the entire liquid contents in case of leakage.

Secondary Container

- The secondary container must be securely sealed, and it may serve as the outer shipping container if it has sufficient strength to withstand ordinary postal processing.
- The primary receptacle(s) and the absorbent cushioning must be enclosed in a secondary container with a leakproof barrier that can prevent failure of the secondary container if the primary receptacle(s) should leak during transport.
- The secondary container must be marked with the international biohazard symbol shown in Exhibit 346.321, except when the secondary container also serves as the outer shipping container. In that case, the biohazard symbol must appear on the inner packaging or on the primary container.

Outer Shipping Container

- A fiberboard box or container of equivalent strength that serves as the outer shipping container.
- When the secondary container also serves as the outer shipping container, the biohazard symbol must appear on the inner packaging or on the primary container.

Solid or Dry Specimen

Primary Receptacle

■ The primary receptacle (and cushioning material, if required) must be enclosed in a secondary container.

Secondary Container

- The secondary container must be siftproof to contain the contents should the primary receptacle(s) leak.
- The secondary container must be marked with the international biohazard symbol (see Exhibit 346.321).

Outer Shipping Container

The secondary container may serve as the outer shipping container if it has sufficient strength to withstand ordinary postal processing.

Markings

- A complete return address and delivery address must be used.
- No other identifying marks are allowed on the outside of the box.

Note: A shipper's declaration for dangerous goods (shipping papers) is not required for clinical specimens that do not contain infectious substances.

USPS Packaging Instruction 6H

Exempt Human or Animal Specimens

Reference DMM 601.10.17.9

Exempt human or animal specimens as defined in <u>346.12d</u> are not subject to regulation as hazardous materials, but when presented for mailing, they must be properly packaged. See <u>346.326</u>.

"Exempt human or animal specimen" means a human or animal sample (including, but not limited to, secreta, excreta, blood and its components, tissue and tissue fluids, and body parts) transported for routine testing not related to the diagnosis of an infectious disease.

Typically, exempt human specimens are specimens for which there is a low probability that the sample is infectious, such as specimens for drug or alcohol testing; cholesterol testing; blood glucose level testing; prostate-specific antigens (PSA) testing; testing to monitor heart, kidney, or liver function; pregnancy testing; and testing for diagnosis of noninfectious diseases such as cancer biopsies.

Proper Shipping Name

Not applicable (not regulated under 49 CFR as a hazardous material in domestic commerce).

Mailability

- International Mail: Mailable. They are not subject to regulation as hazardous materials, but when presented for mailing, they must be packaged as identified in 346.326.
- Domestic Mail: Mailable with First-Class Mail, Priority Mail, Express Mail, or Package Services.

Required Packaging

Primary Receptacle

- Material must be triple-packaged in leakproof (for liquids) or siftproof (for solids) primary receptacles.
- A single primary receptacle must not contain more than 500 ml of a liquid specimen or 500 grams of a solid specimen.
- Two or more primary receptacles whose combined volume does not exceed 500 ml (for liquids) or 500 grams (for solids) may be enclosed in a single secondary container.
- Sufficient cushioning and absorbent materials must surround each primary receptacle containing liquid.

Secondary Container

- The secondary container cannot serve as the outer shipping container.
- The secondary container must be securely and snugly enclosed in a fiberboard box or container of equivalent strength that serves as the outer shipping container. The outer shipping container must be rigid.
- The secondary container must be marked with the international biohazard symbol shown in Exhibit 346.321.

Marking/Documentation

- The outer shipping container must be marked on the address side with the words "Exempt human specimen" or "Exempt animal specimen," as appropriate. In addition, at least one surface of the outer packaging must have a minimum dimension of 3.9 inches by 3.9 inches (100 mm by 100 mm).
- A shipping paper is not required.

USPS Packaging Instruction 7A

Radioactive Materials

Radioactive materials are prohibited in international mail and domestic mail if required to bear the DOT Radioactive White-I, Radioactive Yellow-II, Radioactive Yellow-III label, or the Fissile label (49 CFR 172.436, 172.438, or 172.440, respectively) or if it contains quantities of radioactive material in excess of those authorized in 347. Radioactive materials are prohibited in domestic mail via air transportation. For international mail, the standards in IMM 135 apply.

The only categories of radioactive material that are mailable are those that can be classified as a "limited quantity" under 49 CFR and that meet the limits in Exhibit 347.22: excepted instruments, articles, and devices, and excepted articles containing natural uranium and thorium. Accurate documentation of the activity limits, which must not exceed those specified in Exhibit 347.22, must be provided.

Proper Shipping Name and ID Number

- Radioactive Material, excepted package-limited quantity, UN2910.
- Radioactive Material, excepted package-instruments or articles, UN2911.
- Radioactive Material, excepted package-articles manufactured from natural uranium (or natural thorium), UN2909.

Mailability

- International Mail: Only as permitted in <u>622.3</u> and IMM 135, and when sent as a registered air letter package.
- Domestic Mail: Permitted only via surface transportation sent as Standard Mail or Parcel Post and when the applicable requirements in 347 are met.

Required Packaging

Separate packaging requirements apply as follows.

- Domestic Mail for Limited Quantities (49 CFR 173.421) whose activity per package does not exceed the limits specified in Exhibit 347.22:
 - Primary Receptacle:
 - The materials are packaged in strong, tight inner receptacles that will not leak any of the radioactive materials during normal Postal Service handling.
 - Absorbent and Cushioning Material:
 - Sufficient and suitably positioned absorbent material capable of absorbing at least twice the volume of the liquid contents in the event of leakage is required.
 - Adequate cushioning material to withstand shock and pressure changes must surround the primary receptacle.
 - Secondary Packaging:
 - Liquid radioactive materials must be packaged within a leak-resistant and corrosion-resistant secondary packaging.
 - Outer Packaging:
 - The inner receptacle and the secondary packaging (when required) must be securely packed within a strong outer packaging.
 - The radiation level at any point on the external surface of the mailpiece must not exceed 0.5 millirem per hour.
 - The nonfixed (removable) radioactive surface contamination on the external surface of the mailpiece does not exceed the applicable limits specified in 49 CFR 173.443(a).
 - The package does not contain fissile material unless excepted by 49 CFR 173.453.
 - No single dimension of the external mailpiece can be less than 2.5 centimeters (1 inch), and the length and girth can be no less than 30 centimeters (12 inches).
 - Marking:
 - The outside of the inner receptacle or the outside of the secondary packaging must be clearly marked "Radioactive."
 - The address side of the mailpiece must clearly display the following marking: "This package conforms to the conditions and limitations specified in 49 CFR 173.421 for radioactive material, excepted package-limited quantity of material, UN2910 and is within Postal Service activity limits for mailing."
 - A complete return address and delivery address must be used.

Domestic Mail for Mailable Instruments and Articles (49 CFR 173.424) permitted under 347:

Instruments and manufactured articles (including clocks, electronic tubes, or apparatus) or similar devices having radioactive materials in gaseous or nondispersible solid form as a component part must be packed as follows:

- Primary Receptacle:
 - The activity of the instrument or device must not exceed the relevant limit listed in Exhibit 347.22.
 - The radiation level at 10 centimeters (4 inches) from any point on the external surface of the unpackaged instrument or device must not exceed 10 millirem per hour.
- Cushioning Material:
 - Adequate cushioning material to withstand shock and pressure changes must surround the primary receptacle.
- Outer Packaging:
 - The inner receptacle and cushioning material must be securely packed within a strong outer packaging.
 - The total activity per mailpiece must not exceed the relevant limit listed in Exhibit 347.22.
 - The radiation level at any point on the external surface of the mailpiece containing the device or instrument must not exceed 0.5 millirem per hour.
 - The nonfixed (removable) radioactive surface contamination on the external surface of the mailpiece must not exceed the applicable limits specified in 49 CFR 173.443(a).
 - The package does not contain fissile material unless excepted by 49 CFR 173.453.
 - At least one external dimension of the mailpiece must be no less than 10 centimeters (4 inches).
- Marking:
 - The outside of the inner receptacle or the outside of the secondary packaging must be clearly marked "Radioactive."
 - The address side of the mailpiece must clearly display the following marking: "This package conforms to the conditions and limitations specified in 49 CFR 173.424 for radioactive material, excepted package-instruments or articles, UN2911 and is within Postal Service activity limits for mailing."
 - A complete return address and delivery address must be used.

Domestic Mail for Mailable Excepted Articles Containing Uranium or Thorium (49 CFR 173.426) permitted under 347:

Manufactured articles excepted under <u>347</u> and in which the sole radioactive material is natural or depleted uranium or natural thorium must be packaged as follows:

- Primary Receptacle:
 - The outer surface of the uranium or thorium is enclosed in an inactive sheath made of metal or other durable protective material.
- Cushioning Material:
 - Adequate cushioning material to withstand shock and pressure changes must surround the primary receptacle.
- Outer Packaging:
 - The inner receptacle and cushioning material must be securely packed within a strong outer packaging.
 - The radiation level at any point on the external surface of the mailpiece must not exceed 0.5 millirem per hour.
 - The nonfixed (removable) radioactive surface contamination on the external surface of the mailpiece must not exceed the applicable limits specified in 49 CFR 173.443(a).
- Marking:
 - The outside of the inner receptacle or the outside of the secondary packaging must be clearly marked "Radioactive."
 - The address side of the mailpiece must clearly display the following marking: "This package conforms to the conditions and limitations specified in 49 CFR 173.426 for radioactive material, excepted package-articles manufactured from natural uranium (or natural thorium), UN2909 and is within Postal Service activity limits for mailing."
 - A complete return address and delivery address is required.
- International Mail:

The requirements specified in <u>622.3</u> and IMM 135.5 apply in addition to the packaging instructions for domestic mail.

Note: A shipper's declaration for dangerous goods is not required for mailable radioactive materials.

USPS Packaging Instruction 8A

Corrosives

A *corrosive* is any liquid or solid that causes visible destruction or irreversible alteration in human skin tissue at the site of contact or a liquid that has a severe corrosion rate on steel.

A Class 8 corrosive material that qualifies as an ORM-D material is permitted in domestic mail provided that all applicable requirements in 348 and DMM 601.10.19 are met.

Proper Shipping Name

Consumer Commodity.

ID Number

Various (see Appendix A).

Mailability

- International Mail: Prohibited.
- Domestic Mail: Permitted via air transportation (Express Mail, Priority Mail, and First-Class Mail) or surface transportation as Standard Mail or Parcel Post.

Required Packaging

Separate packaging requirements apply for liquids and solids.

- For Mailable Liquid Corrosives:
 - General:
 - Liquid Corrosive. A liquid mixture must be 1 pint (16 ounces) or less, and must contain 15 percent or less corrosive material with the remainder of the mixture not being a hazardous material, unless otherwise specified for a specific corrosive material.
 - Primary Receptacles:
 - Primary receptacles must be securely sealed compatible glass bottles.
 - The primary receptacle must be tightly sealed with a screw cap having a minimum of one-and-one-half turns, a soldering clip, or other means to effect secure closure. A friction-top closure is not acceptable.
 - Volume per primary receptacle is limited to 16 ounces.
 - Multiple primary receptacles are permitted.

- Absorbent and Cushioning Material:
 - A noncombustible absorbent material that is capable of taking up all liquid in case of leakage must surround the primary receptacle.
 - Cushioning material must surround the primary receptacle to prevent breakage.
- Secondary Packaging:
 - The secondary packaging container must be constructed of metal or plastic and be compatible with the design of the primary receptacle.
 - The secondary container must be tightly sealed with a screw cap having a minimum of one-and-one-half turns, a soldering clip, or other means to effect secure closure. A friction-top closure is not acceptable.
- Outer Shipping Container:
 - The primary receptacle, absorbent material, cushioning material, and secondary packaging must be packed in a strong outer packaging.
 - Each mailpiece must not exceed a total weight of 25 pounds.
- Marking:
 - For air transportation, the mailpiece must be clearly marked on the address side with "Consumer Commodity ORM-D AIR" immediately following or below the proper shipping name.
 - For surface transportation, the mailpiece must be clearly marked on the address side with "Surface Only" or "Surface Mail Only" and "Consumer Commodity ORM-D" immediately following or below the proper shipping name.
 - Optionally each mailpiece may bear the appropriate DOT limited quantity square-on-point marking (including the appropriate DOT hazardous material warning label when required for air shipments), prepared under <u>348.4c</u>, instead of an ORM-D or ORM-D AIR marking.
 - A complete return address and delivery address must be used.
- Documentation:
 - For air transportation, a properly completed shipper's declaration for dangerous goods must be prepared in triplicate and affixed to the outside of the mailpiece.
- For Mailable Solid Corrosives:
 - General:
 - A solid mixture must be 10 pounds or less per primary receptacle and must contain 10 percent or less corrosive material with the remainder of the mixture not being a hazardous material, unless otherwise specified for a specific corrosive solid.

- Primary Receptacle:
 - Each primary receptacle must be siftproof and be securely sealed.
- Secondary Packaging:
 - Each primary receptacle must be packed within a siftproof secondary packaging container that is compatible with the primary receptacle.
- Outer Packaging:
 - The primary receptacle and the compatible secondary packaging containers must be snugly packed within a strong outer packaging.
 - Multiple primary receptacles and compatible secondary packaging containers may be packed within a single outer packaging up to a total weight of 25 pounds per mailpiece.
- Marking:
 - For air transportation, the mailpiece must be clearly marked on the address side with "Consumer Commodity or ORM-D AIR" immediately following or below the proper shipping name.
 - For surface transportation, the mailpiece must be clearly marked on the address side with "Surface Only" or "Surface Mail Only" and "Consumer Commodity ORM-D" immediately following or below the proper shipping name.
 - Optionally each mailpiece may bear the appropriate DOT limited quantity square-on-point marking (including the appropriate DOT hazardous material warning label when required for air shipments), prepared under <u>348.4c</u>, instead of an ORM-D or ORM-D AIR marking.
 - A complete return address and delivery address is required.
- Documentation:
 - For air transportation, a properly completed shipper's declaration for dangerous goods must be prepared in triplicate and affixed to the outside of the mailpiece.

USPS Packaging Instruction 8B

Nonspillable Wet Battery

A nonspillable wet battery containing liquid electrolite is prohibited from mailing unless the battery casing is completely sealed to prevent the liquid corrosive from spilling during handling, as allowed in 348 and DMM 601.10.13. Nonspillable batteries with UN2800 are prohibited in international mail, but they may be sent as domestic mail via air or surface transportation when properly packaged.

Proper Shipping Name

Nonspillable Battery.

ID Number

■ UN2800.

Mailability

- International Mail: Prohibited.
- Domestic Mail: Permitted via air transportation (Express Mail, Priority Mail, and First-Class Mail) or surface transportation sent as Standard Mail or Parcel Post.

Required Packaging

Primary Receptacle

The nonspillable battery must be capable of withstanding the vibration and pressure differential tests cited in 49 CFR 173.159(d)(i) and (ii).

Cushioning Material

■ The nonspillable battery must be protected from short circuits with protective or cushioning material.

Outer Packaging

- The nonspillable battery must be securely packaged in a strong fiberboard box.
- Only one nonspillable battery is allowed per mailpiece.
- The total weight of a single mailpiece cannot exceed 25 pounds.

Marking

- The outer packaging must be clearly marked on the address with "Nonspillable Battery, UN2800."
- A complete return address and delivery address must be used.

Note: A shipper's declaration for dangerous goods is not required for nonspillable wet batteries sent via air transportation as exempted in 49 CFR173.159(d).

USPS Packaging Instruction 9A

Dry Ice (Carbon Dioxide Solid)

When dry ice is enclosed in a thick metal or other restricting type of container, a build-up of internal pressure could cause the container to rupture or explode. Dry ice is permitted to be sent in domestic mail when it is used as a refrigerant to cool the contents of a mailable hazardous or nonhazardous material, provided that all applicable requirements in 349 are met.

Proper Shipping Name

Carbon Dioxide Solid or Dry Ice.

ID Number

UN1845.

Mailability

- International Mail: Prohibited.
- Domestic Mail: Permitted with restriction via air transportation (Express Mail, Priority Mail, and First-Class Mail) or surface transportation sent as Standard Mail or Parcel Post.

Required Packaging

General

- Packages containing dry ice must be packed in containers that permit the release of carbon dioxide gas and conform to 49 CFR 173.217 and 175.10(a)(13).
- For air transportation (Express Mail, Priority Mail, or First-Class Mail), each mailpiece may not contain more than 5 pounds of dry ice.
- For surface transportation (Standard Mail or Parcel Post), a mailpiece may contain more than 5 pounds of dry ice.

Marking

- Each mailpiece must be clearly marked on the address side with the name of the contents being cooled (such as frozen medical specimens, steaks) and the net weight of the dry ice.
- For air transportation, each mailpiece must bear a Class 9 DOT miscellaneous hazardous material warning label and must be clearly marked "Carbon Dioxide Solid, UN1845" Or "Dry Ice, UN1845."
- For surface transportation, each mailpiece must be clearly marked "Surface Only" or "Surface Mail Only" and "Carbon Dioxide Solid, UN1845" or "Dry Ice, UN1845."

Documentation

For air transportation, a properly completed shipper's declaration for dangerous goods must be prepared in triplicate and affixed to the outside of the mailpiece.

Note: A shipper's declaration and a Class 9 DOT warning label are not required for dry ice sent via domestic surface mail. Mailpieces containing dry ice that are prepared for surface transportation must not, under any circumstances, be routed via air transportation.

USPS Packaging Instruction 9B

Magnetized Materials

A magnetized material is an article that has a magnetic field strength capable of causing the deviation of aircraft instruments. Magnetized materials include magnets and magnetized devices such as magnetrons and light meters of sufficient strength to possibly cause erroneous aircraft magnetic compass readings. Magnetized materials are mailable, provided that all requirements in 349.24 are met.

Proper Shipping Name and ID Number

Not applicable.

Mailability

- International Mail: Prohibited, except for those that do not cause a compass deviation at 7 feet or more.
- Domestic Mail: Magnetized material with a field strength greater than 0.00525 gauss at 15 feet is prohibited. For air transportation (Express Mail, Priority Mail, and First-Class Mail), a magnetized material that can cause a compass deviation at 7 feet or more is prohibited. Other magnetized materials are permitted with restrictions via surface transportation as Standard Mail or Parcel Post.

Required Packaging

General

- Magnets and magnetic devices such as magnetrons and light meters must be packaged with the polarities of each unit positioned to oppose one another.
- Keeper bars must be installed on permanent magnets or must otherwise be shielded to prevent the magnetic field from affecting magnetic compasses.
- Mailable materials must be packed in strong outer containers.

Marking

- For air transportation, the address side of the outer packaging must bear the magnetized material warning label shown in <u>Exhibit 349.242b</u>.
- For surface transportation, mailpieces containing magnetized material with unconfined fields must be clearly marked on the address side with "Surface Only" or "Surface Mail Only" and "Magnetic - Keep 7 Feet Away From Navigational Equipment."
- A complete return address and delivery address must be used.

Documentation

For air transportation, a properly completed shipper's declaration for dangerous goods must be prepared in triplicate and affixed to the outside of the mailpiece. Magnetized material is not regulated as a hazardous material when transported via surface transportation.

USPS Packaging Instruction 9C

Miscellaneous Hazardous Materials

A Class 9 miscellaneous hazardous material that qualifies as an ORM-D material is permitted in domestic mail provided all applicable requirements in 349 are met.

Proper Shipping Name

Consumer Commodity.

ID Number

Various (see Appendix A).

Mailability

- International Mail: Prohibited.
- Domestic Mail: Permitted via air transportation (Express Mail, Priority Mail, and First-Class Mail) or surface transportation as Standard Mail or Parcel Post. Flammable materials are prohibited from air transportation.

Required Packaging

Primary Receptacle

- For liquids, the capacity of the primary receptacle must not exceed
 1 pint.
- For solids, the weight of the primary receptacle and its contents must not exceed 1 pound.
- Multiple primary receptacles are permitted.

Cushioning Material

 Enough cushioning material must surround the primary receptacle to prevent breakage and absorb all potential leakage.

Outer Packaging

- A strong outer packaging that is capable of firmly and securely holding the primary receptacle and cushioning material is required.
- Each mailpiece must not exceed a total weight of 25 pounds.

Marking

- For air transportation, each mailpiece must be clearly marked on the address side with "Consumer Commodity ORM-D AIR."
- For surface transportation, each mailpiece must be clearly marked on the address side with "Consumer Commodity ORM-D" and "Surface Mail Only" or "Surface Only."
- Optionally each mailpiece may bear the appropriate DOT limited quantity square-on-point marking (including the appropriate DOT hazardous material warning label when required), prepared under 349.4c, instead of an ORM-D or ORM-D AIR marking.
- A complete return address and delivery address must be used.

Documentation

For air transportation, a mailable material must have a properly completed shipper's declaration for dangerous goods prepared in triplicate and affixed to the outside of the mailpiece.

USPS Packaging Instruction 9D

Lithium and Lithium-ion Cells and Batteries

- When mailed domestically only: Primary lithium (nonrechargeable) cells and batteries and secondary lithium-ion (rechargeable) cells and batteries are mailable in limited quantities domestically via air or surface transportation when they are installed in or packed with the equipment they are intended to operate. Individual secondary batteries (without equipment) are mailable in limited quantities domestically via air or surface transportation only, provided the batteries are in the originally sealed packaging. Individual primary batteries (without equipment) are mailable in limited quantities only via surface transportation, provided the batteries are in the originally sealed packaging.
- When mailed internationally or to and from APO, FPO, or DPO locations: Primary lithium (non-rechargeable) cells and batteries and secondary lithium-ion(rechargeable) cells and batteries are mailable in limited quantities internationally or to and from APO, FPO, or DPO locations via air or surface transportation only when they are properly installed in the equipment they operate.

Proper Shipping Name

- Primary Lithium Battery.
- Lithium-ion Battery.

ID Number

- Lithium and Lithium-ion Battery, UN3090.
- Lithium and Lithium-ion Battery contained in or packed with equipment, UN3091.

Mailability

- Domestic Mail: Primary and secondary lithium cells and batteries installed in or packed with equipment are mailable via air or surface transportation. Primary lithium cells and batteries not packed with or installed in equipment (individual batteries) are mailable via surface transportation only.
- International Mail or to and from APO, FPO, and DPO locations: Primary and secondary lithium cells and batteries installed in the equipment they are intended to operate are mailable. Primary and secondary lithium cells and batteries not packed in equipment (i.e., batteries packed with equipment or individual batteries) are prohibited.

Required Packaging

Primary (nonrechargeable) and Secondary (rechargeable) Lithium Batteries

- The equipment must be cushioned to prevent movement or damage and be contained in a strong enough sealed package to prevent crushing of the package or exposure of the contents during normal handling in the mail.
- All outer packages must have a complete delivery and return address.

Markings

- Primary (non-rechargeable) properly installed in the equipment they are intended to operate:
 - Mailable via air transportation or surface transportation domestically or internationally (including to and from APO, FPO, and DPO locations).
 - No markings required provided the quantities are within the limits of <u>349.22</u> (for domestic items), or <u>622.5</u> (for international, APO, FPO, or DPO items).
- Primary (non-rechargeable) packed with the equipment they are intended to operate:
 - Mailable via air and surface transportation domestically. Prohibited internationally or to and from APO, FPO, and DPO locations.
 - The outside of the package must be marked on the address side "Package Contains Primary Lithium Batteries."
- Primary (non-rechargeable) not packed with or installed in equipment (individual batteries):
 - Mailable domestic via surface transportation only. Prohibited internationally or to and from APO, FPO, and DPO locations.
 - The outside of the package must be marked on the address side "Surface Mail Only, Primary Lithium Batteries — Forbidden for Transportation Aboard Passenger Aircraft."
- Secondary (rechargeable) properly installed in the equipment they are intended to operate:
 - Mailable via air transportation or surface transportation domestically or internationally or to and from APO, FPO, and DPO locations.
 - No markings required provided the quantities are within the limits of <u>349.22</u> (for domestic items), or <u>622.5</u> (for international, and APO, FPO, and DPO items).
- Secondary (rechargeable) packed with the equipment they are intended to operate:
 - Mailable via air and surface transportation domestically. Prohibited internationally or to and from APO, FPO, and DPO locations.
 - The outside of the package must be marked on the address side "Package Contains Lithium-ion Batteries (no lithium metal)."

- Secondary (rechargeable) not packed with or installed in equipment (individual batteries):
 - Mailable domestic via surface transportation only. Prohibited internationally or to and from APO, FPO, and DPO locations.
 - The outside of the package must be marked on the address side "Package Contains Lithium-ion Batteries (no lithium metal)."

Quantities

Domestic — Primary Lithium (nonrechargeable) Cells and Batteries:

Installed in or packed with the equipment they are intended to operate:

- Each cell must contain no more than 1.0 gram (g) of lithium content per cell.
- Each battery must contain no more than 2.0 g aggregate lithium content per battery.
- The shipment cannot contain more batteries than the number needed to operate the device.
- The mailpiece must not exceed 11 pounds.

Individual batteries mailed without equipment:

- Each cell must contain no more than 1.0 gram (g) of lithium content per cell.
- Each battery must contain no more than 2.0 g aggregate lithium content per battery.
- The mailpiece must not exceed 5 pounds.

Domestic — Secondary Lithium-ion (rechargeable) Cells and Batteries:

Installed in equipment, packed with equipment, or mailed without equipment (individual batteries):

- The lithium content must not exceed 20 Wh (Watt-hour rating) per cell.
- The total aggregate lithium content must not exceed 100 Wh per battery.
- The mailpiece must not contain more than three batteries.

International — Primary (nonrechargeable) and Secondary (rechargeable) Lithium Batteries:

Installed in the equipment they are intended to operate:

- Each shipment may contain a maximum of four lithium cells or two lithium batteries.
- The lithium content must not exceed 1 gram (g) per cell.
- The total aggregate lithium content must not exceed 2 g per battery

International – Secondary Lithium-ion (Rechargeable) Cells and Batteries:

Installed in equipment:

- Each shipment may contain a maximum of four lithium-ion cells or two lithium-ion batteries.
- The lithium content must not exceed 20 Watt-hour rating (Wh) per cell.
- The total aggregate lithium content must not exceed 100 Wh per battery.

USPS Packaging Instruction 10A

Small Quantity Provision

Some types of hazardous materials, as permitted in 334 and 49 CFR 173.4, may be prepared for mailing using the "small quantity" provision. The small quantity provision, like the ORM-D materials category, is unique within the United States, and its use is prohibited in international mail.

Proper Shipping Name and ID Number

Not applicable.

Prototype Testing Requirement

The complete mailing package must be capable of withstanding the test criteria in 49 CFR 173.4(a)(6).

Mailability

- International Mail: Prohibited.
- Domestic Mail: Permitted via air transportation (Express Mail, Priority Mail, and First-Class Mail) or surface transportation sent as Standard Mail or Parcel Post.

Required Packaging

Inner Receptacle

- Each inner receptacle cannot be liquid-full at 131° F (55° C).
- Each inner receptacle must be constructed of plastic with a minimum thickness of no less than 0.2 mm (0.008 inch) or must be made of earthenware, glass, or metal.
- Each inner receptacle must be securely sealed with wire, tape, or other positive means.

Absorbent and Cushioning Material

- Sufficient absorbent material that will not react chemically with the hazardous material must fully surround each inner receptacle and be capable of absorbing the entire liquid contents of the inner receptacle(s) in case of leakage.
- Each primary receptacle must be surrounded by sufficient cushioning material to absorb shock and prevent breakage.
- The absorbent and cushioning materials used must not violate 49 CFR 173.21.

Secondary Packaging

■ Each inner receptacle and the absorbent cushioning material must be placed within a securely sealed secondary packaging.

Outer Packaging

- The secondary packaging must be securely packed in a strong outer packaging.
- The total weight of each mailpiece must not exceed 64 pounds (29 kg).

Marking

- The address side of each mailpiece sent under the small quantity provision must be clearly marked with "This package conforms to 49 CFR 173.4."
- A complete return address and delivery address must be used.

Hazardous, Restricted, and Perishable Mail

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Appendix D

Hazardous Materials Definitions

Aerosol means any nonrefillable metal receptacle containing a gas that is compressed, liquefied, or dissolved under pressure, the sole purpose of which is to expel a nonpoisonous (other than a Division 6.1 Packing Group III material) liquid, paste, or powder and fitted with a self-closing release device allowing the contents to be ejected by the gas.

Air transportation, for the purposes of DMM 601.10 and this publication, applies to all mailable hazardous materials sent at the Express Mail, Priority Mail, or First-Class Mail rates of postage.

Ammunition includes all kinds of bombs, grenades, rockets, mines, projectiles, and other similar devices or contrivances. Ammunition is a Class 1 explosive and is nonmailable.

ASTM refers to the American Society for Testing and Materials.

Batteries, dry are sealed, nonvented batteries of the type used in flashlights or for the operation of small household apparatus. They contain zinc salts and other solids, or may be of the nickel cadmium type or other combinations of metals.

Biohazard is a biological material that poses a threat to humans or the environment. The biohazard symbol that is required for certain Division 6.2 materials is an OSHA requirement detailed in 29 CFR 1910.1030.

Biological products means a material derived from a living organism that is prepared and manufactured in accordance with 9 CFR 102-104 (licenses for biological products; experimental products, distribution, and evaluation prior to licensing; and permits for biological products), 21 CFR 312 (investigational new drug application), or 21 CFR 600-680 (biologics) and that, under such provisions, may be shipped in interstate commerce. Biological products include, but are not limited to, products such as vaccines.

Btu means British thermal unit.

C means degrees Celsius or Centigrade. Celsius or Centigrade is a thermometer scale on which the freezing and boiling points of water are divided into 100, with 0° representing the freezing point and 100° the boiling point.

Cargo aircraft only means an aircraft that is used to transport cargo and is not engaged in carrying passengers.

Ci means curie.

Clinical (diagnostic) specimen is any human or animal material including, but not limited to, excreta, secreta, blood, blood components, tissue, and tissue fluids that have been collected and are being mailed to a medical or

forensic laboratory for the purpose of diagnosis, or being mailed from a medical or forensic laboratory for return to a law enforcement agency.

Combination packaging means one or more inner packagings (i.e., receptacles) secured in a nonbulk outer packaging. This is a term used by DOT in 49 CFR.

Combustible liquid is a Class 3 material in a liquid form that has a flashpoint above 141° F (60.5° C) and below 200° F (93° C).

Compatibility group refers to a designated alphabetical letter used to categorize different types of Class 1 explosive substances and articles for purposes of safe stowage and segregation (e.g., Division 1.4S).

Composite packaging consists of an outer packaging and an inner receptacle so constructed that they form an integral unit. Once assembled, it remains a single integrated unit; it is filled, stored, shipped, and emptied as such. This is a term used by DOT in 49 CFR.

Compressed gas is a material or mixture within a container that is a gas at 68° F (20° C) or less and 14.7 psi (101.3 kPa), or exerts an absolute pressure of 40.6 psia (280 kPa) or greater at 68° F (20° C). Gases are Class 2 hazardous materials.

Consumer commodity is the proper shipping name of an ORM-D material that is packaged and distributed in a quantity and form intended or suitable for retail sale, and designed for individual consumption for personal care or household use purposes. This term can also include certain drugs or medicines. Not every hazardous material permitted to be shipped as a limited quantity can qualify as a consumer commodity.

Corrosive material means a Class 8 liquid or solid material that causes visible destruction of human skin at the site of contact within a specified period of time. A liquid that has a severe corrosion rate on steel or aluminum is also a corrosive material.

Dangerous goods is the term used to describe hazardous materials shipped in international commerce.

Dangerous when wet material is a Division 4.3 material that by contact with water is liable to become spontaneously flammable or to give off flammable or toxic gas.

Designated facility is (for EPA purposes) the hazardous waste treatment, storage, or disposal facility that has been designated on a hazardous waste manifest by the waste generator.

Diagnostic specimen, see clinical specimen.

Division refers to a subpart of a hazard class (e.g., Division 6.1).

DOD refers to the U.S. Department of Defense.

Domestic transportation is transportation between locations within the United States.

DOT refers to the U.S. Department of Transportation. DOT has the federal authority to regulate the transportation of hazardous materials within domestic commerce. DOT regulations are codified in Title 49, Code of Federal Regulations (49 CFR).

Elevated temperature material means a material that, when offered for transportation, is in a liquid phase and at a temperature at or above 212° F (100° C); is in a liquid phase with a flashpoint at or above 100° F (37.8° C) that is intentionally heated and offered for transportation at or above its flashpoint; or is in a solid phase and at a temperature at or above 464° F (240° C). Elevated temperature materials are Class 9 hazardous materials and are nonmailable.

EPA refers to the U.S. Environmental Protection Agency. EPA regulations are codified in Title 40, Code of Federal Regulations (40 CFR).

Etiologic agent, see infectious substance.

Explosive is any Class 1 substance or article, including a device, that is designed to function by explosion (i.e., an extremely rapid release of gas and heat) or that, by chemical reaction within itself, is able to function in a similar manner.

F means degrees Fahrenheit. Fahrenheit is a thermometer scale on which the boiling point of water is 212° above zero and the freezing point is 32° above zero.

Flammable gas is a Division 2.1 material that is ignitable at 14.7 psi (101.3 kPa) when in a mixture of 13 percent or less by volume, or has a flammable range at 14.7 psi (101.3 kPa) with air of at least 12 percent regardless of the lower limit.

Flammable liquid is a Class 3 material in a liquid form that has a flashpoint of not more than 141° F (60.5° C), or any material in a liquid phase with a flashpoint at or above 100° F (38° C).

Flammable solid is a Division 4.1 material that includes any solid material (other than one classed as an explosive) that under normal transport and handling conditions is likely to cause fire through friction or retained heat from manufacturing or processing, or that can be ignited readily and, when ignited, can burn vigorously and persistently and create a serious transportation hazard.

Flashpoint means the minimum temperature at which a liquid gives off vapor within a test vessel in sufficient concentration to form an ignitable mixture with air near the surface of the liquid. The test criteria is cited in 49 CFR 173.120(c).

Gas means a material that has a vapor pressure greater than 43.5 psi (300 kPa) at 122° F (50° C) or is completely gaseous at 68° F (20° C) at a standard pressure of 14.7psi (101.3 kPa). Also, see compressed gas.

Hazard class means the category to which a hazardous material is assigned under the definitions set by DOT in 49 CFR. Even though a material is assigned to only one hazard class, it may meet the defining criteria for more than one hazard class. Some hazardous materials may also have subsidiary hazard class assignment.

Hazard zone refers to one of the four levels of hazards (Hazard Zones A through D) assigned to gases and liquids that are poisonous by inhalation. A hazard zone is based on the LC_{50} value for acute inhalation and toxicity of gases and vapors. Hazardous materials assigned a hazard zone are nonmailable.

Hazardous material is any article or substance designated by DOT as being capable of posing an unreasonable risk to health, safety, or property during transportation. In international commerce, the term for "hazardous material" is "dangerous goods."

Hazardous substance is a hazardous material that when shipped in certain quantities can be an environmental hazard. Appendix A in 49 CFR 172.101 lists all hazardous substances. All hazardous substances are hazardous materials, but not all hazardous materials are hazardous substances. Hazardous substances are nonmailable.

Hazardous waste is any material subject to the Hazardous Waste Manifest Requirements of EPA as specified in 40 CFR 262. The only types of hazardous waste permitted in domestic mail is medical waste (i.e., sharps and other medical devices) as specified in 346 and DMM 601.10.17.

IATA refers to the International Air Transportation Association. IATA annually publishes the IATA Dangerous Goods Regulations, which provides procedures for shippers to prepare hazardous materials for safe transport by air via commercial air transportation. The IATA regulations contain all of the ICAO Technical Instructions as well as some more restrictive requirements that reflect air transport industry standard practices or operational considerations.

ICAO refers to the International Civil Aviation Organization. ICAO biannually publishes the Technical Instructions for the Safe Transport of Dangerous Goods by Air, which specifies the procedures for shipping hazardous materials via air transportation and is recognized by DOT in 49 CFR 171.11.

IMO refers to the International Maritime Organization, which provides requirements for shipping hazardous materials via waterways.

Infectious substance (etiologic agent) is a Division 6.2 material that is a viable microorganism, or its toxin, and causes or may cause disease in human beings or animals, and includes those agents listed in 42 CFR 72.3 and any other agent that causes or may cause severe, disabling, or fatal disease. The terms "infectious substance" and "etiologic agent" are synonymous.

Inhalation hazard, see hazard zone.

Inner receptacle, see primary receptacle.

Irritating material is any Division 6.1 liquid or solid substance (e.g., tear gas) that gives off intense fumes and causes extreme but temporary irritation and impairment to a person's ability to function.

kPa means kilopascals.

L or I means liter.

Limited quantity is the maximum amount of a specific hazardous material that is exempted from the labeling or packaging requirements in 49 CFR. Not every hazardous material is eligible to be shipped as a limited quantity.

Liquid is a material, other than an elevated temperature material, with a melting point of 68° F (20° C) or lower at a standard pressure of 14.7 psi (101.3 kPa).

Liquid phase means a material that meets the definition of a liquid when elevated at the higher of the temperature at which it is offered for transportation, not at the 100° F (38° C) temperature.

Magnetized material is an article that has a magnetic field strength capable of causing the deviation of aircraft instruments and producing erroneous aircraft magnetic compass readings.

Marine pollutant is any hazardous material listed in Appendix B of 49 CFR 172.101, including mixtures or solutions of certain concentrations that are capable of polluting water habitats. Marine pollutants are not mailable.

Material Safety Data Sheet (MSDS) is a document that details the physical characteristics and health hazards of a chemical or hazardous product. In 29 CFR 1910.1200(g), OSHA requires chemical manufacturers and importers to obtain or develop an MSDS for each hazardous chemical they produce or import, and provide copies to their customers. OSHA also requires that employers have an MSDS on hand for each hazardous chemical present in their workplace. For postal purposes, the information on an MSDS can be useful in determining the mailability of a hazardous material.

Maximum capacity means the maximum volume permitted in the inner receptacle or packaging.

Miscellaneous hazardous materials are Class 9 substances or articles that present a hazard during transportation but do not meet the definition of any other hazard class. Examples are dry ice and magnetized materials. **ml** means milliliter.

mm means millimeters.

DMM 601.10.

NA number refers to the North American (NA) four-digit identification number assigned to a hazardous material that is not recognized for international transportation. Hazardous materials having NA numbers may be shipped in commercial commerce only within the United States or between the United States and Canada. Hazardous materials with NA numbers may be mailed within the United States only as permitted in chapter 3 and

Nonflammable gas is a Division 2.2 material that exerts an absolute pressure of 40.6 psia (280 kPa) or greater at 68° F (20° C).

n.o.s. means not otherwise specified.

Organic peroxide is a Division 5.2 material that includes any organic compound containing oxygen in the bivalent structure and that may be considered a derivative of hydrogen peroxide, where one or more of the hydrogen atoms have been replaced by organic radicals.

ORM means other regulated material.

ORM-D material is a limited quantity of a hazardous material that presents a low risk of hazard during transportation due to its form, quantity, and packaging. The proper shipping name for all mailable ORM-D material is "Consumer Commodity." Not every hazardous material permitted to be shipped as a limited quantity can qualify as an ORM-D material. The ORM-D category is recognized for use within the United States only. ORM-D materials cannot be sent in international mail.

OSHA refers to the Occupational Safety and Health Administration of the U.S. Department of Labor. OSHA regulations are codified in Title 29, Code of Federal Regulations (29 CFR).

Other medical devices are Division 6.2 materials that include all articles or devices used in animal or human patient care or treatment or in medical research that are not, or do not contain, a projecting sharp and are not known or not reasonably believed to contain an infectious substance (etiologic agent).

Outer packaging is the outermost enclosure that provides protection against the unintentional release of the contents under normal handling conditions. The outer packaging holds the primary receptacle, the secondary packaging (if required), and the absorbent material and cushioning. The outer packaging bears the addressing information along with all required markings and labels.

Oxidizing gas means a gas that more than air may cause or contribute to the combustion of other material by generally providing oxygen.

Oxidizing substance is a Division 5.2 material that may, generally by yielding oxygen, cause or enhance the combustion of other materials.

Packing group (PG) is the DOT grouping assignment that is based on the degree of danger present in an individual hazardous material. Packing Group I indicates a great danger; Packing Group II, medium danger; Packing Group III, minor danger. Not every hazard class uses packing group assignments. ORM-D materials most often fall within Packing Group III.

Passenger-carrying aircraft means an aircraft that carries any person other than a crew member or company employee, an authorized representative of the United States, or a person accompanying the shipment.

Poisonous gas, see toxic gas.

Poisonous material, see toxic substance.

Primary hazard refers to the single or most dangerous hazard characteristic of a hazardous material (i.e., hazard class or division assignment).

Primary receptacle is the innermost container (i.e., tube, vial, bottle, vessel) that holds the hazardous material. Sometimes the primary receptacle may be referred to as the inner receptacle or the primary container.

Proper shipping name is the name of a hazardous material that must be used to identify a substance or article in the shipping documents and on the packaging, as required. See Appendix \underline{A} and \underline{B} for listings of proper shipping names.

psi means pounds per square inch.

psia means pounds per square inch absolute.

psig means pounds per square inch gauge.

Pyrophoric material is a liquid or solid that, even in a small amount and without an external ignition source, can ignite within 5 minutes after coming in contact with air.

Radiation level means the radiation dose-equivalent rate expressed in millisievert per hour (mSv/h) or millirem per hour (mrem/h).

Radioactive instrument or article means any manufactured instrument or article, such as an instrument, clock, electronic tube or apparatus, or similar item, having a Class 7 radioactive material in gaseous or nondispersible solid form as a component part.

Radioactive material is defined in 49 CFR 173.403 as any material containing radionuclides where both the activity concentration and the total activity in the consignment exceed the values specified in the table in 49 CFR 173.436 or values derived according to the instructions in 49 CFR 173.433. Activity limits for mailable Class 7 radioactive materials are listed in Exhibit 347.22.

Regulated medical waste is the DOT term for a Division 6.2 waste or reusable material, other than a culture or stock of an infectious substance, that may or may not contain an infectious substance and is generated from: the diagnosis, treatment, or immunization of human beings or animals; research pertaining to the diagnosis, treatment, or immunization of human beings or animals; or the production or testing of biological products. Only the types of medical waste named in 346 and DMM 601.10.17 are mailable.

Reportable quantity (RQ) mean the minimum amount of a hazardous substance that is subject to the additional marking and documentation requirements in Appendix A of 49 CFR 172.101. A hazardous material having an RQ is nonmailable.

Residue means the hazardous material remaining in a packaging after the contents have been unloaded to the maximum extent practicable and before the packaging is either cleaned, refilled, or properly disposed of.

Salvage packaging is a special form of packaging into which damaged, defective, or leaking hazardous materials packages are placed for purposes of recovery or disposal. Salvage packaging must meet the specifications in 49 CFR 173.3.

Secondary packaging is the container into which a primary receptacle is placed. The secondary packaging is then secured in an outer packaging.

Self-heating material is a material that, when in contact with air and without an energy supply, is liable to self-heat and may spontaneously ignite.

Sharps is a Division 6.2 material that includes any item of medical waste having a projecting cutting edge or fine point that was used in animal or human patient care or treatment or in medical research or industrial laboratories. The term includes, but is not limited to, hypodermic needles, syringes (with or without the attached needles), pasteur pipettes, scalpel blades, blood vials, needles with attached tubing, and culture dishes (regardless of the presence of infectious agents). Also included are other types of broken or unbroken glassware that were in contact with infectious agents, such as used slides or cover slips. The term does not include new unused medical devices such as hypodermic needles, syringes, and scalpel blades.

Shipping papers means the shipping order, bill of lading, manifest, or other shipping document that contains the information required by 49 CFR 172.200 through 172.204. Most hazardous materials (including ORM-D materials) sent via air transportation require a shipper's declaration for

dangerous goods. See <u>326</u> and <u>Exhibit 326</u>. The Packaging Instructions in Appendix C specify when a shipper's declaration is required.

Siftproof packaging means a packaging that is impermeable to dry contents, including any fine solid material produced during transportation.

Small quantity is the maximum amount of a specific hazardous material that is not subject to any requirements other than those in 49 CFR 173.4. Not every hazardous material is eligible to be shipped as a small quantity. The small quantity provision is recognized for use within the United States only. A hazardous material cannot be sent in international mail using the small quantity provision.

Solid is a material that is not a liquid or a gas.

Solution is any homogeneous liquid mixture of two or more chemical compounds or elements that will not undergo any segregation under normal transportation conditions.

Specific activity refers to the activity of the radionuclide per unit mass of that nuclide for a Class 7 material.

Specification packaging means a packaging conforming to one of the specifications or standards in 49 CFR 178 and 179. ORM-D materials do not require specification packaging (but they must meet postal packaging requirements).

Spontaneously combustible material is a pyrophoric or a self-heating material that is capable of spontaneous ignition.

Subsidiary hazard means a hazard characteristic, other than the primary hazard, present in a hazardous material that is of lesser significance than the primary hazard.

Surface transportation, for the purposes of DMM 601.10 and this publication, applies to all mailable hazardous materials sent at the Standard Mail rates of postage.

TBq means terabecquerel.

Toxic gas is a Division 2.3 material that is poisonous by inhalation and is a gas at 68° F (20° C) or less and a pressure of 14.7 psi (101.3 kPa); or a material that has a boiling point of 68° F (20° C) or less at 14.7 psi (101.3 kPa).

Toxic substance means a material, other than a gas, that is known to be so toxic to humans as to cause death, injury, or harm to health if swallowed, inhaled, or contacted by the skin. See <u>346</u> and DMM 601.10.16 for information on toxicity levels.

UN number refers to the United Nations (UN) four-digit identification number assigned to a hazardous material that is recognized for use in international and domestic commerce and transportation.

UN standard packaging means a packaging that conforms to the standards in the UN Recommendations on the Transport of Dangerous Goods.

Viscosity is the tendency of a fluid to resist internal flow without regard to its density.

Volatility refers to the relative rate of evaporation of materials to assume a vapor state at ordinary temperatures.

Water reactive material, see dangerous when wet material.

Water resistant means having a degree of resistance to permeability and damage caused by water.

Hazardous, Restricted, and Perishable Mail

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Appendix E

Conversion Factors for Units of Measure

Conversion to International System (SI) Units

To convert:	to:	multiply by:
curie (Ci)	gigabecquerel (GBq)	37.00
degrees Fahrenheit (° F)	degrees Celsius (° C)	subtract 32 and multiply by 5/9
feet	meters (m)	0.304
gallons (U.S. liquid)	liters (L)	3.785
inches	millimeters (mm)	25.40
kilogram-force (kgf)	newton (N)	9.807
ounces, fluid (U.S.)	milliliters (ml)	29.57
pints (U.S.)	litres (L)	0.473
pounds	kilograms (kg)	0.453
pounds per square inch	kilopascals (kPa)	6.895
quarts (U.S.)	liters (L)	0.946

Conversion From International System (SI) Units

To convert:	to:	multiply by:
degrees Celsius (° C)	degrees Fahrenheit (° F)	multiply by 9/5 and add 32
kilograms (kg)	pounds	2.205
kilopascals (kPa)	pounds per square inch	0.145
liters (L)	gallons (U.S. liquid)	0.264
liters (L)	pints (U.S.)	2.113
liters (L)	quarts (U.S.)	1.057
meters (m)	feet	3.281
milliliters (ml)	ounces, fluid (U.S.)	0.033
millimeters (mm)	inches	0.039
newton (N)	kilogram-force (kgf)	0.1020
terabecquerel (TBq)	curie (Ci)	27.03

Hazardous, Restricted, and Perishable Mail

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Appendix F

References

Postal Service Publications and Reference Materials

- Mailing Standards of the United States Postal Service, Domestic Mail Manual (DMM®).
- Mailing Standards of the United States Postal Service, International Mail Manual (IMM®).
- Postal Operations Manual (POM).
- Administrative Support Manual (ASM).
- Publication 14, Prohibitions and Restrictions on Mailing Animals, Plants, and Related Matter.
- Handbook EL-812, Hazardous Materials and Spill Response.
- Aviation Mail Security, Management Instructions.
- Notice 107, Let's Keep the Mail Safe.
- Poster 298, DOT Hazardous Materials Warning Labels and Markings.

Other Publications

- Title 18 of the United States Code (U.S.C.) 921, 1715, 1716 (18 U.S.C. 921, 1715, 1716).
- 39 U.S.C. 3001 (nonmailable matter).
- 21 U.S.C. 801–830 (drugs).
- Title 29 Code of Federal Regulations (29 CFR), Occupational Safety and Health Administration (OSHA), U.S. Department of Labor.
- 42 CFR, Department of Health and Human Services (HHS), Centers for Disease Control and Prevention (CDC).
- 49 CFR, Parts 100–185, U.S. Department of Transportation (DOT).
- International Civil Aviation Organization (ICAO), *Technical Instructions* for the Safe Transport of Dangerous Goods by Air.
- International Air Transport Association (IATA), *Dangerous Goods Regulations*.

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Note: Any item with an asterisk (*) is *NONMAILABLE* under any conditions.

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