NSC 3801

Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Common Name	**Methoxyamine Hydrochloride**
Supplier	Pierce Chemical Company P.O. Box 117 Rockford, IL 61105 815.968.0747
Synonym	Methoxylamine Hydrochloride
Trade name	Not available.
Material Uses	Not available.
Manufacturer	Pierce Chemical Company P.O. Box 117 Rockford, IL 61105 815.968.0747

Code	0095561 1874170
MSDS#	601
Validation Date	8/13/98
Print Date	8/19/98
Responsible Name	Company

In Case of Emergency: CALL CHEMTREC:
800.424.9300
OUTSIDE US:
202.483.7616

Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits
1) Methoxyamine Hydrochloride		100	

Section 3. Hazards Identification

Physical State and Appearance: Solid. (Powdered solid.)

Emergency Overview:

MAY BE FATAL IF ABSORBED THROUGH SKIN, IF SWALLOWED OR INHALED.
MAY CAUSE RESPIRATORY TRACT IRRITATION

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Routes of Entry: Inhalation.

Potential Acute Health Effects

Eyes: Irritation of the product in case of eye contact: Not available.
Corrosive to eyes. Eye contact can result in corneal damage or blindness.

Skin: Irritation of the product in case of skin contact: Not available.Sensitization of the product: Not available.
corrosive The amount of tissue damage depends on length of contact. Skin contact can produce inflammation and blistering. Severe over-exposure can result in death.

Inhalation: Extremely hazardous in case of inhalation. Hazardous in case of inhalation (lung irritant). Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing. Over-exposure by inhalation may cause respiratory irritation. May be fatal if inhaled.

Ingestion: May be fatal if swallowed. May cause burns to mouth, throat and stomach.

Potential Chronic Health Effects: **CARCINOGENIC EFFECTS**: Not available. **MUTAGENIC EFFECTS**: Not available. **TERATOGENIC EFFECTS**: Not available.

Medical Conditions Aggravated by Overexposure: Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated skin exposure can produce local skin destruction, or dermatitis. Repeated inhalation of dust can produce varying degree of respiratory irritation or lung damage. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Overexposure /Signs/Symptoms: Not available.

See Toxicological Information (section 11)

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Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. COLD water may be used. DO NOT use an eye ointment. Seek medical attention.
Skin Contact	If the chemical got onto the clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical touches the victim's exposed skin, such as the hands: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. COLD water may be used. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.
Inhalation	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.
Ingestion	DO NOT induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.
Notes to Physician	Not available.

Section 5. Fire Fighting Measures

Flammability of the Product	May be combustible at high temperature.
Auto-ignition Temperature	Not available.
Flash Points	Not available.
Flammable Limits	Not available.
Products of Combustion	These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2...).
Fire Hazards in Presence of Various Substances	No specific information is available in our database regarding the flammability of this product in presence of various materials.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available. No specific information is available in our database regarding the product's risks of explosion in the presence of various materials.
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemicals, CO2, water spray or foam. LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet.
Protective Clothing (Fire)	Wear MSHA/NIOSH approved self-contained breathing apparatus or equivalent and full protective gear.
Special Remarks on Fire Hazards	No additional remark.
Special Remarks on Explosion Hazards	No additional remark.

Section 6. Accidental Release Measures

Small Spill and Leak	Use appropriate tools to put the spilled solid in a convenient waste disposal container.
Large Spill and Leak	Corrosive solid. Stop leak if without risk. DO NOT get water inside container. DO NOT touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all sources of ignition. Call for assistance on disposal.

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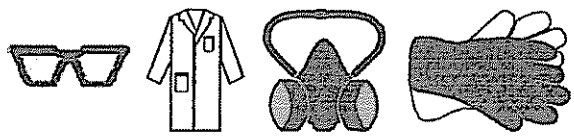
Section 7. Handling and Storage

Handling	
Storage	Keep container dry. Keep in a cool place. Ground all equipment containing material. Corrosive materials should be stored in a separate safety storage cabinet or room.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protection	
Eyes	Safety glasses.
Body	Lab coat.
Respiratory	Vapor and dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.
Hands	Gloves.
Feet	Not applicable.
Protective Clothing (Pictograms)	
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Vapor and dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Product Name	Exposure Limits
1) Methoxyamine Hydrochloride	

Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Solid. (Powdered solid.)
Molecular Weight	83.52 g/mole
Molecular Formula	CH5NO
pH (1% Soln/Water)	Not available.
Boiling/Condensation Point	Not available.
Melting/Freezing Point	148°C (298.4°F)
Critical Temperature	Not available.
Specific Gravity	Not available.
Vapor Pressure	Not available.
Vapor Density	Not available.
Volatility	Not available.
Odor Threshold	Not available.
Evaporation Rate	Not available.
VOC	Not available.

Odor	Not available.
Taste	Not available.
Color	White.

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Viscosity	Not available.
LogK$_{ow}$	Not available.
Ionicity (in Water)	Not available.
Dispersion Properties	See solubility in water.
Solubility	Partially soluble in cold water, hot water.
Physical Chemical Comments	No additional remark.

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Conditions of Instability	No additional remark.
Incompatibility with Various Substances	Extremely reactive or incompatible with oxidizing agents. Highly reactive with acids.
Hazardous Decomposition Products	Not available.
Hazardous Polymerization	No.

Section 11. Toxicological Information

Toxicity to Animals	LD50: Not available. LC50: Not available.
Chronic Effects on Humans	Not available.
Other Toxic Effects on Humans	Extremely hazardous in case of inhalation.
Special Remarks on Toxicity to Animals	No additional remark.
Special Remarks on Chronic Effects on Humans	No additional remark.
Special Remarks on Other Toxic Effects on Humans	No additional remark.

Section 12. Ecological Information

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Biodegradable/OECD	Not available.
Mobility	Not available.
	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	The products of degradation are less toxic than the product itself.
Special Remarks on the Products of Biodegradation	No additional remark.

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Section 13. Disposal Considerations

Waste Information	Not available.
Waste Stream	Not available.

Consult your local or regional authorities.

Section 14. Transport Information

DOT Classification	DOT CLASS 6.1: Poisonous material. DOT CLASS 8: Corrosive solid.
	Corrosive toxic solids n.o.s.
	UN2923
	Not available.
Marine Pollutant	Not available.
Hazardous Substances Reportable Quantity	Not available.
Special Provisions for Transport	No additional remark.
TDG Classification	TDG CLASS 6.1: Poisonous material. TDG CLASS 8: Corrosive solid.
ADR/RID Classification	ADR CLASS 8: Corrosive solid. Highly corrosive.
IMO/IMDG Classification	IMDG CLASS 6.1: Poisonous material. IMDG CLASS 8: Corrosive solid.
ICAO/IATA Classification	IATA CLASS 6.1: Poisonous material. IATA CLASS 8: Corrosive solid.

Section 15. Regulatory Information

HCS Classification	HCS CLASS: Highly toxic. HCS CLASS: Corrosive solid.
U.S. Federal Regulations	TSCA inventory: **Methoxyamine Hydrochloride**
	Clean water act (CWA) 307: No products were found.
	Clean water act (CWA) 311: No products were found.
	Clean air act (CAA) 112 accidental release prevention: No products were found. Clean air act (CAA) 112 regulated flammable substances: No products were found. Clean air act (CAA) 112 regulated toxic substances: No products were found.
International Regulations	
WHMIS (Canada)	WHMIS CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC). WHMIS CLASS E: Corrosive solid.
	No products were found.
EINECS	Not available.
DSCL (EEC)	R34- Causes burns. R40- Possible risks of irreversible effects.
International Lists	No products were found.
State Regulations	No products were found.

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California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: No products were found.

Section 16. Other Information

Label requirements MAY BE FATAL IF ABSORBED THROUGH SKIN, IF SWALLOWED OR INHALED.
MAY CAUSE RESPIRATORY TRACT IRRITATION

Hazardous Material Information System (U.S.A.)

Health	3
Fire Hazard	1
Reactivity	0
Personal Protection	a

National Fire Protection Association (U.S.A.)

References Not available.

Other Special Considerations No additional remark.

Validated by Company on 8/13/98.

Verified by Company.

Printed 8/19/98.

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