

GENTA INCORPORATED

Protocol {XXXXX-XXXX}

{Investigator Name}, Principal Investigator

CONFIDENTIAL

<p>GENTA INCORPORATED  MATERIAL SAFETY DATA SHEET  30 mg/ml G-3139  sterile solution</p>
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Address:  
3550 General Atomics Court  
San Diego, CA 92121

Emergency and Information  
Telephone calls:  
(619) 455-2700

Tim Riley  
Chemical Safety Officer

10/04/96  
Date revised

**WARNING STATEMENT**

**WARNING! INVESTIGATIONAL NEW DRUG; FOR INVESTIGATIONAL CLINICAL USE ONLY! AVOID INGESTION, INHALATION, AND SKIN CONTACT.**

**SECTION 1 - IDENTITY**

COMMON NAME	phosphorothioate oligonucleotide complementary to first 6 codons of the human BCL-2 open reading frame
SYNONYMS	G3139; BCL-2 antisense 18mer
CAS NUMBER	None assigned
RTECS NUMBER	None assigned
CHEMICAL NAME	phosphorothioate oligonucleotide
CHEMICAL FAMILY	nucleic acid
THERAPEUTIC CATEGORY	Anticancer
FORMULA	5'-tct ccc agc gtg cgc cat

**SECTION 2- HAZARDOUS INGREDIENTS**

NAME	PERCENT	THRESHOLD LIMITS VALUE (UNITS)
G3139	≥95	not established
n-x-mers	≤5	not established

**SECTION 3 - PHYSICAL AND CHEMICAL CHARACTERISTICS (Fire & Explosion Data)**

BOILING POINT	-100°C
SPECIFIC GRAVITY (H <sub>2</sub> O = 1)	-1
VAPOR PRESSURE (mm Hg)	nd
PERCENT VOLATILE BY VOLUME (%)	nd
VAPOR DENSITY (AIR = 1)	nd
EVAPORATION RATE	nd
SOLUBILITY IN WATER	freely soluble
REACTIVITY IN WATER	n/a
APPEARANCE AND ODOR	clear liquid, virtually no odor
TASTE	unknown
FLASH POINT	nd
FLAMMABLE LIMITS (IN AIR % BY VOLUME)	LOWER n/a    UPPER n/a

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nd = not determined

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**EXTINGUISHER MEDIA**

Noncombustible. Use extinguishing media appropriate for surrounding fire and materials.

**AUTO-IGNITION TEMPERATURE  
 SPECIAL FIRE FIGHTING  
 PROCEDURES**

n/a

**UNUSUAL FIRE AND EXPLOSION  
 HAZARDS**

As with all fires, evacuate personnel to safe area. Firefighters should use self-contained breathing equipment and protective clothing.

n/a

**SECTION 4 - PHYSICAL HAZARDS**

**STABILITY  
 CONDITIONS TO AVOID  
 INCOMPATIBILITY**

( ) Unstable ( X ) Stable  
 Material is stable from a safety point of view.

**(MATERIALS TO AVOID)  
 HAZARDOUS DECOMPOSITION  
 PRODUCTS  
 HAZARDOUS POLYMERIZATION**

Strong acids or bases, oxidizing agents, heavy metal salts  
 Nature of decomposition products unknown  
 Will not occur.

**SECTION 5 - HEALTH HAZARDS**

**THRESHOLD LIMIT VALUE  
 SIGNS AND SYMPTOMS OF  
 OVEREXPOSURE**

None established  
 G3139 CAS RN: none established  
 LD<sub>20</sub> 12.5 mg/Kg intraperitoneal, qdx14,  
 mouse;  
 LD<sub>100</sub> 50 mg/Kg continuous subcutaneous  
 infusion, 14 days, mouse;

**CHRONIC  
 PRECAUTIONS TO CONSIDER**

Non irritating to skin.  
 Unknown  
 Persons developing hypersensitivity (anaphylactic) reactions must receive immediate medical attention. Material may be irritating to mucous membrane and respiratory tract. As a general rule, when handling investigational new drugs avoid all contact and inhalation of dust, fumes, mists, and or vapors associated with the material. Keep container tightly closed and use with adequate ventilation; wash thoroughly after handling.

**MEDICAL CONDITIONS  
 AGGRAVATED BY EXPOSURE  
 CHEMICAL LISTED AS  
 CARCINOGEN OR POTENTIAL  
 CARCINOGEN**

Hypersensitivity to material  
 NATIONAL TOXICOLOGY PROGRAM - No  
 I.A.R.C. Monographs - No  
 OSHA - No  
 OTHER - n/a

ACGIH OTHER EXPOSURE  
 TLV: n/a LIMIT(S) USED: n/a

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OSHA PERMISSIBLE EXPOSURE  
LIMIT:  
OTHER EXPOSURE LIMIT USED

Not established  
Not established

EMERGENCY AND  
FIRST AID PROCEDURES

Remove from exposure. Remove contaminated clothing. Persons developing serious hypersensitivity reactions must receive immediate medical attention. Upon contact with eye flush affected area with copious amounts of water. Obtain medical attention. If not breathing give artificial respiration. If breathing is difficult give oxygen.

1. INHALATION
2. EYES
3. SKIN
4. INGESTION

May cause irritation of respiratory tract. Avoid inhalation. Remove to fresh air.  
May cause irritation. Flush with copious amounts of water.  
Non irritating. Wash with soap and water.  
May cause irritation. Flush mouth out with water.

**SECTION 6 - SPECIAL PROTECTION INFORMATION**

RESPIRATORY PROTECTION  
(SPECIFY TYPE)

NIOSH approved respirator

VENTILATION

Adequate

LOCAL EXHAUST

Recommended

MECHANICAL

Recommended

OTHER

n/a

PROTECTIVE GLOVES

Rubber

EYE PROTECTION

Safety goggles

OTHER PROTECTIVE CLOTHING  
OR EQUIPMENT

Appropriate laboratory apparel; protect exposed skin.

**SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES**

PRECAUTIONS TO BE TAKEN  
IN HANDLING AND  
STORAGE

Store in tight container. This material should be stored as per instructions to ensure product integrity.

OTHER PRECAUTIONS

Avoid contact with eyes, skin or clothing. Avoid breathing mist. Use with adequate dust control. Wash thoroughly after handling. Wear fresh clothing daily. Wash contaminated clothing before reuse. Do not permit eating, drinking or smoking near material.

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**STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED**

Wear approved respirator and chemically compatible gloves. Vacuum or wipe up spillage. Place spillage in appropriate container for waste disposal. Wash contaminated clothing before reuse. Ventilate area and wash spill site.

**WASTE DISPOSAL METHODS**

Dispose of waste in accordance with all applicable Federal, State and local laws.

**NOTICE**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide for persons having the appropriate technical skills.

**ATTENTION:**

**This Compound is an Investigational New Drug and is Intended for Investigational Clinical Uses Only.**

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