

MATERIAL SAFETY DATA SHEET

24 HR. EMERGENCY PHONE # CHEM-TREC 1-800-424-9300

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SECTION 1 Product Identification

CHEMICAL NAME: Arsenic (III) selenide
CAS #: 1303-36-2
FORMULA: As₂Se₃
SYNONYM: Diarsenic triselenide

SECTION 2 Composition and Information on Ingredients

| INGREDIENT: | CAS # | % | ACGIH (TWA) | OSHA (PEL) |
|----------------|-----------|-----|---------------------------------------------------------------|---------------------------------------------------------------|
| Title Compound | 1303-36-2 | 100 | 0.01mg/m ³ (as As) 0.2mg/m ³ (as Se) | 0.01mg/m ³ (as As) 0.2mg/m ³ (as Se) |

SECTION 3 Hazards Identification

EMERGENCY OVERVIEW: Acute arsenic toxicity includes nausea, dizziness and coma. Acute selenium toxicity can cause shortness of breath, garlic odor, chills and headache. May cause cancer.

PRIMARY ROUTES OF EXPOSURE: Ingestion, inhalation

EYE CONTACT: May cause mild irritation of the eyes.

SKIN CONTACT: May cause irritation of the skin, ulceration, spotty pigmentation, dermatitis and skin cancer.

INHALATION: May be severely irritating to the nose and respiratory tract. May induce perforation of the nasal septum and cause arsenic poisoning

INGESTION: Ingestion may lead to nausea, vomiting, bloody diarrhea, weakness, low blood pressure, shock, coma and death.

CHRONIC HEALTH EFFECTS: Prolonged exposure to arsenic compounds may cause loss of appetite, dermatitis, diarrhea, kidney and liver damage and nervous disorders. May cause cancer.

ACUTE HEALTH EFFECTS: May be irritating to skin, eyes and respiratory tract, and cause garlic odor, nausea, vomiting, bloody diarrhea, weakness, shock and coma.

SECTION 4 First Aid Measures

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

SKIN EXPOSURE: Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

INHALATION: Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.

INGESTION: Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

SECTION 5 Firefighting Measures

FLASH POINT: no data

AUTO IGNITION TEMPERATURE: no data

EXPLOSION LIMITS: no data

EXTINGUISHING MEDIUM: carbon dioxide or dry powder

SPECIAL FIREFIGHTING PROCEDURES: If involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: If involved in a fire this material may emit toxic fumes of arsenouse oxide and hydrogen selenide

UNUSUAL FIRE OR EXPLOSION HAZARDS: No unusual fire or explosion hazard.

SECTION 6 Accidental Release Measures

SPILL AND LEAK PROCEDURES: Small spills can be mixed with vermiculite or sodium carbonate and swept up.

SECTION 7 Handling and Storage

HANDLING AND STORAGE: Store material in a tightly sealed container. When handling, avoid forming airborne dust. Use good housekeeping practices to avoid contamination of work area.

SECTION 8 Exposure Controls and Personal Protection

EYE PROTECTION: Always wear approved safety glasses w/side shields, or safety goggles, face shield when handling a chemicals substance in the laboratory.

SKIN PROTECTION: Chemical-resistant.

VENTILATION: If possible, handle the material in an efficient fume hood.

RESPIRATOR: If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 19-10.134.

SECTION 9 Physical and Chemical Properties

COLOR AND FORM: black xtl.

MOLECULAR WEIGHT: 386.72

MELTING POINT (DEG. C.): no data

BOILING POINT: no data

VAPOR PRESSURE: no data

SPECIFIC GRAVITY: 4.75

SOLUBILITY IN WATER: insoluble

SECTION 10 Stability and Reactivity

STABILITY: air and moisture stable
HAZARDOUS POLYMERIZATION: no hazardous polymerization
CONDITIONS TO AVOID: none
INCOMPATIBILITY: oxidizing agents and halogens
DECOMPOSITION PRODUCTS: arsenic and selenium oxide

SECTION 11 Toxicological Information

RTECS DATA: Oral (rat); LD50: >5gm/kg
MUTAGENIC EFFECTS: no data
TETRATOGENIC EFFECTS: no data
CARCINOGENIC EFFECTS: no data
To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 Ecological Information

ECOLOGICAL INFORMATION: No information available

SECTION 13 Disposal Considerations

DISPOSAL: Dispose of in according to local state and federal regulations.

SECTION 14 Transportation Information

Non-hazardous

Non-hazardous

SECTION 15 Regulatory Information

TSCA: Listed in the TSCA inventory
SARA (TITLE 313): Title compound : See category N020 for reporting.

SECTION 16 Other Information

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, ProChem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

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