



SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Arsenic (III) selenide**

PRODUCT NUMBER: 1159

CAS NUMBER: 1303-36-2

SYNONYMS: Arsenic triselenide

MANUFACTURER:

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

Danger

Hazard Statements

H300	Fatal if swallowed
H330	Fatal if inhaled
H335	May cause respiratory irritation

Precautionary Phrases

P260	Do not breathe dust/fume/gas/mist/vapours/spray
P270	Do not eat, drink, or smoke when using this product
P284	Wear respiratory protection
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P405	Store locked up

HMIS CLASSIFICATION:

Health: 2 Flammability: 1 Reactivity: 1

NFPA RATING:

Health: 2 Fire: 1 Reactivity Hazard: 1

EYE CONTACT: Causes irritation of the eyes.

SKIN CONTACT: Causes irritation, itching.

INHALATION: Harmful if inhaled. Causes respiratory tract irritation by inhalation.

INGESTION: Harmful if ingested. Causes irritation of the digestive tract.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: As₂Se₃

Molecular Weight: 386.72

CHEMICAL NAME	CAS#	%	ACGIH (TLV)	OSHA (PEL)
Arsenic (III) selenide	1303-36-2	100	0.02 mg/m ³ (Se) 0.01 mg/m ³ (As)	0.02mg/m ³ (Se) 0.01 mg/m ³ (As)

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 soap and copious amounts of 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 give oxygen and seek immediately medical assistance.

INGESTION: Do NOT induce vomiting. Allow victim to rinse mouth out with water provided victim is conscious. Seek immediate medical attention.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Not applicable

AUTO IGNITION TEMPERATURE: Not applicable

EXPLOSION LIMITS: Not applicable

EXTINGUISHING MEDIUM: Product is not flammable. Use fire fighting measures that suit the surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: If involved in a fire, fire fighters should be equipped with a NIOSH approved positive self-contained breathing apparatus, flame and chemical resistant clothing, hats, boots, and gloves.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Toxic metal oxide fumes of arsenous oxide and selenium oxide.

UNUSUAL FIRE OR EXPLOSION HAZARDS: None known

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear protective equipment and ensure adequate ventilation. Keep unprotected persons away.

ENVIRONMENTAL PRECAUTIONS: Dangerous for the environment. Do not allow to be released into environment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Sweep up avoiding raising dust and place in a well-marked container for proper disposal.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Avoid contact with skin and eyes. Do not breathe dust. Use with adequate ventilation. Wear protection to avoid contact with clothing and shoes.

CONDITIONS FOR SAFE STORAGE: Store in a tightly sealed container. Store in cool, dry conditions. Store away from oxidizing agents.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

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

SKIN PROTECTION: Chemical resistant gloves.

VENTILATION: Handle in an efficient chemical fume hood.

RESPIRATOR: Approved NIOSH type P95 or type P1 particle respirator. For higher levels of protection, use type OV/AG/P99 respirator cartridges.

ADDITIONAL PROTECTION: Protection to avoid contact with skin, eyes, and clothing. Safety shower and eyewash in area. Use in a controlled environment. Do not drink, eat, or smoke in area.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Brown to black powder
MOLECULAR WEIGHT: 366.72
BOILING POINT: Not applicable
MELTING POINT: 360° C
SPECIFIC GRAVITY: 4.75 gm/ml
VAPOR PRESSURE: Not applicable
SOLUBILITY: Insoluble

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable under recommended storage conditions
HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: Heat
INCOMPATIBILITY: Oxidizing agents and halogens, potassium nitrate, potassium permanganate, and peroxides.
DECOMPOSITION PRODUCTS: Arsenic and selenium oxide

SECTION 11 TOXICOLOGICAL DATA

CARCINOGENIC EFFECTS: Confirmed carcinogen to humans
MUTAGENIC EFFECTS: Not available
TETRAOGENIC EFFECTS: Possible risk of congenital malformation in the fetus.
CHRONIC TOXICITY: Acute arsenic poisoning from ingestion results in marked irritation of the stomach and intestines with nausea, vomiting, and diarrhea. In severe cases, the vomitus and stools are bloody and the patient goes into collapse and shock with weak, rapid pulse, cold sweats, coma, and death. Chronic arsenic poisoning may cause disturbances of the digestive system such as loss of appetite, cramps, nausea, constipation, or diarrhea.

To the best of our knowledge the toxicological effects of this compound have not been fully investigated. For use by technically qualified individuals. Not for household use.

SECTION 12 ECOLOGICAL DATA

Very dangerous for the environment. Very toxic to aquatic life with long lasting effects. Do not allow material to be released to the environment without proper government permits. Do not allow undiluted product to reach ground water, water bodies, or even sewage system.

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local state and federal regulations.

SECTION 14 TRANSPORTATION DATA

DOT: Arsenic compounds, solid, n.o.s.
Class 6.1
UN1557
PG II
IATA: Arsenic compounds, solid, n.o.s.
Class 6.1
UN1557
PG II

SECTION 15 REGULATORY INFORMATION

TSCA: Listed in the TSCA inventory

SARA 313 COMPONENTS: Product contains arsenic and selenium and is subject to reporting requirements.

OSHA: Carcinogen list: Cancer hazard

STATE: This product contains a chemical to be known in the State of California to cause cancer.

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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