

MATERIAL SAFETY DATA SHEET

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

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SECTION 1 Product Identification

CHEMICAL NAME: Mercury (II) selenide
CAS #: 20601-83-6
FORMULA: HgSe
SYNONYM: Mercuric selenide

SECTION 2 Composition and Information on Ingredients

INGREDIENT:	CAS #	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	20601-83-6	100	0.025mg/m ³ 0.2mg/m ³ (as Se)	0.1mg/m ³ 0.2mg/m ³ (as Se)

SECTION 3 Hazards Identification

EMERGENCY OVERVIEW: Toxic by inhalation, in contact with skin and if swallowed. Possible risk of harm to the unborn child and impaired fertility. Danger of cumulative effects.

PRIMARY ROUTES OF EXPOSURE: Ingestion, Skin, inhalation of dust.

EYE CONTACT: May cause mild to severe irritation of the eyes. May deposit mercury in the lens of the eye.

SKIN CONTACT: May cause mild to severe irritation of the skin. Toxic in contact with skin.

INHALATION: Toxic by inhalation. Dust may cause severe respiratory and gastrointestinal distress and may damage the central nervous system.

INGESTION: Toxic if swallowed. Lack of appetite, abdominal cramps, vomiting, kidney failure, paralysis. Mercury bonds to thiol groups of protein.

CHRONIC HEALTH EFFECTS: The chronic effects of mercury poisoning include stomatitis, tremors, psychic disturbances, excessive salivation, dermatitis, and pain on chewing. Other effects include loss of memory, insomnia, irritability and depression, speech and gait impairment. May impair fertility.

ACUTE HEALTH EFFECTS: Toxic by inhalation, in contact with skin and if swallowed. Possible risk of harm to the unborn child. Danger of cumulative effects.

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: none
EXPLOSION LIMITS: none
EXTINGUISHING MEDIUM: carbon dioxide, foam 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 containing mercury.
UNUSUAL FIRE OR EXPLOSION HAZARDS: No unusual fire or explosion hazards.

SECTION 6 Accidental Release Measures

SPILL AND LEAK PROCEDURES: Small spills can be mixed with vermiculite, sodium carbonate or other suitable non combustible adsorbent and swept up.

SECTION 7 Handling and Storage

HANDLING AND STORAGE: Store material in a tightly sealed container, in a cool dry place.

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: gray powder
MOLECULAR WEIGHT: 279.55
MELTING POINT (DEG. C.): none
BOILING POINT: no data
VAPOR PRESSURE: no data
SPECIFIC GRAVITY: no data
SOLUBILITY IN WATER: insoluble

SECTION 10 Stability and Reactivity

STABILITY: air and moisture stable

HAZARDOUS POLYMERIZATION: no hazardous polymerization

CONDITIONS TO AVOID: none

INCOMPATIBILITY: azide, fulminates, active metals, and strong oxidizing agents

DECOMPOSITION PRODUCTS: mercury and selenium fumes

SECTION 11 Toxicological Information

RTECS DATA: No information available in the RTECS files

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

Mercury compounds, solid, n.o.s., Class 6.1, UN 2025, PG II

SECTION 15 Regulatory Information

TSCA: Listed in the TSCA inventory

SARA (TITLE 313): Title compound : See category N458 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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