

## ***Material Safety Data Sheet***

Identity: Indium selenide

Formula: In<sub>2</sub>Se<sub>3</sub>

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### **Section I - General Information**

Manufacturer: [Stanford Advanced Materials](#) (SAM)

The information below is believed to be accurate and represents the best information available to SAM. However, SAM makes no warranty, expressed or implied with respect to such information and we assume no liability resulting from its use.

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### **Section II - Hazardous Ingredients/Identity Information**

<u>Hazardous Components</u>	<u>CAS #</u>	<u>ACGIH-TLV</u>	<u>OSHA PEL</u>	<u>%</u>
	12056-07-4	0.1 mg/m <sup>3</sup>	NE	100

### **Section III - Physical/Chemical Characteristics**

Boiling Point: NA

Specific Gravity (water=1): 5.67 gm/cc  
@ 25.0 C

Melting Point: 800.0 - 900.0 C

Vapor Pressure: NE

Evaporation Rate: NA

Vapor Density: NA

Appearance & Order: Black powder,  
& Pieces, No order.

Solubility in water: NE

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### **Section IV - Fire and Explosion Hazard Data:**

Flammability: No

*Extinguishing media:*

Use suitable extinguishing media for surrounding materials and type of fire.

Firefighters must wear full face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. Fumes from fire are hazardous.

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### Section V - Reactivity Data

*Stability:* Stable

Conditions of Reactivity:

Incompatibility: None

Hazardous decomposition or byproducts: Fumes of selenium.

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### Section VI - Health Hazard Data

Routes of exposure:

Inhalation: Yes Skin: Yes Eyes: Yes Ingestion: Yes

Carcinogenicity: NTP: No IARC: No OSHA: No

INHALATION: Danger-Poison. Remove victim to fresh air; keep warm and quiet; give oxygen if breathing is difficult and seek medical attention.

INGESTION: Danger-Poison. Give 1 – 2 glasses of milk of water and induce vomiting; seek medical attention. Never induce vomiting or give anything by mouth to an unconscious person.

SKIN: Remove contaminated clothing; brush material off skin; wash affected area with mild soap and water; seek medical attention.

EYE: Flush eyes with lukewarm water, lifting upper and lower eyelids, for at least 15 minutes. Seek medical attention

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### Section VII - Precautions for Safe Handling and Use

*Steps to be taken in case material is released or spilled:*

Wear appropriate respiratory and protective equipment specified in section VIII - control measures. Isolate spill area, provide ventilation and extinguish sources of ignition. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for proper disposal. Take care not to raise dust. Use non-sparking tools.

*Waste disposal method:*

Dispose of in accordance with state, local, and federal regulations.

*Hazard Label Information:*

Store in cool, dry area. Store in tightly sealed container. Wash thoroughly after handling.

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### Section VIII - Control Measures

*Protective Equipment Summary - Hazard Label Information:*

NIOSH/MSHA approved respirator, Impervious gloves, Safety glasses, clothes to prevent skin contact.

*Respiratory Protection (Specify Type) - NIOSH - approved dust respirator.*

*Ventilation:*

*Local Exhaust:* To maintain concentration at or below the PEL, TLV

*Mechanical (General):* Not Recommended.

*Protective Gloves:* Rubber gloves. *Eye Protection:* Safety glasses.

*Other Protective Clothing or Equipment:* Protective gear suitable to prevent contamination.

*Work/Hygienic/Maintenance Practices:* Implement engineering and work practice controls to reduce and maintain concentration of exposure at low levels. Use good housekeeping and sanitation practices. Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with compressed air.