

XI'AN FUNCTION MATERIAL GROUP CO., LTD

Material Safety Data Sheet Indium Selenide

1. Product and Company Identification

Trade Name: Indium selenide

Chemical Formula: InSe

Manufacturer/Supplier: XI'AN FUNCTION MATERIAL GROUP CO., LTD

Street: No. 69, Gazelle Valley, High-Tech Zone

City: XI'AN
State: Shaanxi
Zip Code: 710077
Country: China

Tel #: +86-29-88993870/+86-13519132051

2. Hazards Identification

Signal Word: Danger





Hazard Statements: H301+H331: Toxic if swallowed or if inhaled

H373: May cause damage to the central nervous, the liver and the digestive system through prolonged or repeated exposure. Route of

exposure: Oral, Inhalative

Precautionary Statements: P260: Do not breathe dust/fume/gas/mist/vapours/spray

P264: Wash thoroughly after handling

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER

or doctor/physician

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest

in a position comfortable for breathing

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 2
Flammability: 0
Physical: 1

3. Composition

Chemical Family: Ceramic

Additional Names: Indium(III)selenide, Selanylideneindium, selenoxoindium

Indium selenide (In₂Se₃):

Percentage: 100 wt% CAS #: 12056-07-4 EC #: 235-016-9

4. First Aid Procedures General Treatment: Seek medical attention if symptoms persist. Special Treatment: None Important Symptoms: None Inhalation: Remove victim to fresh air. Supply oxygen if breathing is difficult. Remove breathing apparatus only after contaminated clothing has been completely removed. Do not induce vomiting. Seek immediate medical attention. Ingestion: Wash affected area with mild soap and water. Remove any Skin: contaminated clothing. Eyes: Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing 5. Firefighting Measures Flammability: Non-flammable CO₂, extinguishing powder or water spray. Fight larger fires with water Extinguishing Media: spray or alcohol resistant foam. Use full-face, self-contained breathing apparatus with full protective Spec. Fire Fighting Procedure: clothing to prevent contact with skin and eyes. See section 10 for decomposition products. 6. Accidental Release Measures Wear appropriate respiratory and protective equipment specified in If Material Is Released/Spilled: special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust. **Environmental Precautions:** Isolate runoff to prevent environmental pollution. 7. Handling and Storage Handling Conditions: Wash thoroughly after handling. **Storage Conditions:** Store in a cool dry place in a tightly sealed container. Store apart from materials and conditions listed in section 10. Work/Hygienic Maintenance: 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. Ventilation: Provide sufficient ventilation to maintain concentration at or below threshold limit. 8. Exposure Controls and Personal Protection 0.1 mg/m³ as In, long-term value Permissible Exposure Limits: Threshold Limit Value: 0.1 mg/m³ as In, long-term value **Special Equipment:** None **Respiratory Protection: Dust Respirator** Protective Gloves: Rubber gloves Safety glasses or goggles Eve Protection: **Body Protection:** Protective work clothing. Wear close-toed shoes and long sleeves/pants.

Form: Odor: Odor: Odor: Water Solubility: Boiling Point: Melting Point: Autoignition Temperature: Density: Molecular weight: Stability: Reacts With: Incompatible Conditions: Hazardous Decomposition Products: Eyes: Skin: Ingestion: Inhalation: Chronic: Signs & Symptoms: Aggravated Medical Conditions: N Ingestion: Ingestion: Ingestion: Inhalation: Inhalation: Ingestion: Inhalation: Ingestion: Ingestion: Inhalation: Ingestion: Inhalation: Ingestion: Inhalation: Ingestion: Inhalation: Ingestion: Inhalation: Inhalation: Ingestion: Inhalation: Ingestion: Ingestion: Inhalation: Ingestion: Inhalation: Ingestion: Inhalation: Ingestion: Inhalation: Ingestion: Ingestion: Inhalation: Inhalation: Ingestion: Inhalation: Ingestion: Inhalation: Ingestion: Inhalation: Ingestion: Inhalation: Inhalation: Ingestion: Inhalation: Inhalation	owder, Granules, Pellets, Sputtering target, Custom parts dorless isoluble //A //A //A //A //A //A //A //A //A //
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Signs & Symptoms: Aggravated Medical Conditions: N	oth decay, nervous and gastrointestinal disorders, heart pain and
Signs & Symptoms: Aggravated Medical Conditions: N	eneral debility. Experiments with animals also indicate that indium
Signs & Symptoms: N Aggravated Medical Conditions: N	ay cause reduced food and water consumption with weight loss,
Aggravated Medical Conditions: N	ulmonary edema, pneumonia, blood, liver and kidney damage, leg aralysis and damage to the brain, heart, adrenals and spleen.
	/A
Median Lethal Dose: N	/A
	/A
	PA-D: Not classifiable as to human carcinogenicity: inadequate
	uman and animal evidence of carcinogenicity or no data are available
	TP-R: Reasonably anticipated to be a carcinogen, limited evidence of
	ARC-3: Not classifiable as to carcinogenicity to humans.
1:	2. Ecological Information
Aquatic Toxicity: L	
Persistent Bioaccumulation Toxicity: N	ow

N/A

Very Persistent, Very Bioaccumulative: No

Notes:

13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous: Hazardous as powder only.



Hazard Class: 6.1 Toxic substances.

Packing Group: III UN Number: UN3283

Proper Shipping Name: Selenium compound, solid, n.o.s. (Indium selenide)

15. Regulatory Information

Sec 302 Extremely Hazardous: No Sec 304 Reportable Quantities: N/A Sec 313 Toxic Chemicals: Yes

16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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