

XI'AN FUNCTION MATERIAL GROUP CO., LTD

Material Safety Data Sheet Tin Selenide

1. Product and Company Identification

Trade Name: Tin selenide Chemical Formula: SnSe₂

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 organs through prolonged or repeated

exposure

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

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: 1 Physical: 1

3. Composition

Chemical Family: Ceramic

Additional Names: Tin(IV) Selenide

Tin selenide (SnSe₂):

Percentage: 100 wt% CAS #: 20770-09-6

EC#: NIL

4. First Aid Procedures	
Important Symptoms:	None
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.
Ingestion: Skin:	Seek medical attention. Wash affected area with mild soap and water. Remove any
	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:	Flammable as powder
Extinguishing Media: Spec. Fire Fighting Procedure:	Do not use water for metal fires – use CO ₂ , sand, extinguishing powder Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. See section 10 for decomposition products.
	6. Accidental Release Measures
If Material Is Released/Spilled: Environmental Precautions:	Wear appropriate respiratory and protective equipment specified in 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. Isolate runoff to prevent environmental pollution.
70	7. Handling and Storage
Handling Conditions: Storage Conditions:	Wash thoroughly after handling. Store in a cool dry place in a tightly sealed container. Store apart from
Work/Hygienic Maintenance:	materials and conditions listed in section 10. Do not use tobacco or food in work area. Wash thoroughly before
Ventilation:	eating and smoking. Do not blow dust off clothing or skin with compressed air. Provide sufficient ventilation to maintain concentration at or below threshold limit.
8. I	Exposure Controls and Personal Protection
Permissible Exposure Limits: Threshold Limit Value:	0.2 mg/m ³ as Se, long-term value 0.2 mg/m ³ as Se, long-term value
Special Equipment:	None
Respiratory Protection:	Dust Respirator
Protective Gloves: Eye Protection:	Rubber gloves Safety glasses or goggles
Body Protection:	Protective work clothing. Wear close-toed shoes and long sleeves/pants.

9. Physical and Chemical Characteristics

Color N/A Form: **Pieces** Odor: N/A Water Solubility: Insoluble **Boiling Point:** N/A Melting Point: N/A Flash Point: N/A **Autoignition Temperature:** N/A

Molecular weight: 276.63 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

N/A

Reacts With: Oxidizing agents

Incompatible Conditions: None

Hazardous Decomposition Products: Metal oxide fume

11. Toxicological Information

Potential Health Effects:

Density:

Eyes: Causes irritating effect

Skin: Irritating to skin and mucous membranes

Ingestion: May cause irritation
Inhalation: May cause irritation

Chronic: Selenium may cause amyotropic lateral sclerosis, bronchial irritation,

gastrointestinal distress, vasopharyngeal irritation, garlic odor on breath and sweat, metallic taste, pallor, irritability, excessive fatigue, loss of fingernails and hair, pulmonary edema, anemia and weight loss. Metallic tin and inorganic tin compounds may cause nausea, vomiting,

diambra imitatian and management and compounds may cause nausea,

diarrhea, irritation, and pneumoconiosis.

Signs & Symptoms: N/A
Aggravated Medical Conditions: N/A

Median Lethal Dose: N/A

Carcinogen: NTP-R: Reasonably anticipated to be a carcinogen, limited evidence of

carcinogenicity from epidemiologic studies.

IARC-3: Not classifiable as to carcinogenicity to humans.

EPA-D: Not classifiable as to human carcinogenicity: inadequate human and animal evidence of carcinogenicity or no data are available.

12. Ecological Information

Aquatic Toxicity: High
Persistent Bioaccumulation Toxicity: No

Very Persistent, Very Bioaccumulative: No

Notes: Very toxic for aquatic organism.

May cause long lasting harmful effect on aquatic life.

Do not allow material to be released to the environment without proper

governmental permits.

Do not allow product to reach any water sources.

Danger to drinking water if even extremely small quantities leak into

the ground.

Also poisonous for fish and plankton in water bodies

Avoid transfer into the environment.

13. Disposal Considerations

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

14. Transportation Data

Hazardous: Hazardous for transportation.



Hazard Class: 6.1 Toxic substances.

Packing Group: III UN Number: UN3283

Proper Shipping Name: Selenium compound, solid, n.o.s. (Tin 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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