

XI'AN FUNCTION MATERIAL GROUP CO., LTD

Material Safety Data Sheet Nickel (II) sulfide

1. Product and Company Identification

Trade Name: Nickel (II) sulfide

Chemical Formula: NiS

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: H317: May cause an allergic skin reaction

H341: Suspected of causing genetic defects

H350: May cause cancer

H372: Causes damage to organs through prolonged or repeated

exposure

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

P280: Wear protective gloves/protective clothing/eye protection/face

protection

P308+P313: IF exposed or concerned: Get medical advice/attention

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 3
Flammability: 0
Physical: 0

3. Composition

Chemical Family: Nonmetal
Additional Names: Nickel sulfide

Nickel (II) sulfide (NiS):

Percentage: 100 wt% CAS #: 16812-54-7 EC #: 240-841-2

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. Keep patient warm. Seek immediate medical attention.
Ingestion:	Seek immediate medical attention.
Skin:	Immediately wash affected area with mild soap and water. Remove any contaminated clothing. Seek immediate medical attention.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek immediate medical attention.
	5. Firefighting Measures
Flammability:	Non-flammable
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for
Spec. Fire Fighting Procedure:	surrounding material and type of fire. 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:	Wear appropriate respiratory and protective equipment specified in special protection information. Keep unprotected persons away. 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.
740	7. Handling and Storage
Handling Conditions:	Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store away from oxidizing agents. 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

1 mg/m³ as Ni, long-term value Permissible Exposure Limits:

Threshold Limit Value: 0.2 mg/m³ as Ni, inhalable fraction, long-term value

Properly operating chemical fume hood designed for hazardous Special Equipment:

chemicals and having an average face velocity of at least 100 feet per

minute.

Dust Respirator Respiratory Protection:

Nitrile rubber gloves with minimum thickness of 0.11 mm Protective Gloves:

Eve Protection: Safety glasses or goggles

Protective work clothing. Wear close-toed shoes and long **Body Protection:**

sleeves/pants.

9. Physical and Chemical Characteristics

Color N/A

Form: Powder, Granules, Pellets, Sputtering target, Custom parts

Odor: Odorless Water Solubility: 0.0036 g/l **Boiling Point:** N/A Melting Point: 797 °C Flash Point: N/A Autoignition Temperature: N/A

Density: 5.3-5.65 g/cc Molecular weight: 90.76 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Oxidizing agents

Incompatible Conditions:

None **Hazardous Decomposition Products:** Metal oxide fume, sulfur oxides, hydrogen sulfide

11. Toxicological Information

Potential Health Effects:

Eyes: May cause irritation

Skin: May cause irritation or allergic skin reaction

Ingestion: May cause irritation Inhalation: May cause irritation

Chronic: Causes damage to organs through prolonged or repeated exposure.

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

Median Lethal Dose: N/A

May cause cancer Carcinogen:

IARC-1: Carcinogenic to humans: sufficient evidence of

carcinogenicity.

NTP-K: Known to be carcinogenic: sufficient evidence from human

studies.

12. Ecological Information

Aquatic Toxicity: N/A Persistent Bioaccumulation Toxicity: N/A

Very Persistent, Very Bioaccumulative: N/A Notes:

Also poisonous for fish and plankton in water bodies.

May cause long lasting harmful effects to aquatic life.

Very toxic to aquatic life.

Avoid transfer into the environment.

13. Disposal Considerations

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

14. Transportation Data

Hazardous: Hazardous as powder only.



Hazard Class: 9 Miscellaneous danger substances and articles

Packing Group: III UN Number: UN3077

Proper Shipping Name: Environmentally hazardous substances, solid, n.o.s. (Nickel (II) sulfide)

15. Regulatory Information

Sec 302 Extremely Hazardous:
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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