

LTS Research Laboratories, Inc. Safety Data Sheet Nickel (IV) sulfide

1. Product and Company Identification

Trade Name: Nickel (IV) sulfide

Chemical Formula: NiS₂

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 37 Ramland Road
City: Orangeburg
State: New York
Zip Code: 10962
Country: USA

Tel #: 855-587-2436 / 855-lts-chem

24-Hour Emergency Contact: 800-424-9300 (US & Canada)

+1-703-527-3887 (International)



2. Hazards Identification

Signal Word:

Danger





Hazard Statements:

H302+H312+H332: Harmful if swallowed, in contact with skin or if

inhaled

H315: Causes skin irritation.

H319: Causes serious eye irritation. H335: May cause respiratory irritation.

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

P264: Wash skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P271: Use only outdoors or in a well-ventilated area.

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

P301+P312: IF SWALLOWED: Call a POISON CENTER/doctor if

you feel unwell.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

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

in a position comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

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

P330 Rinse mouth.

P332+P313: If skin irritation occurs: Get medical advice/ attention.

P337+P313: If eye irritation persists: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before reuse.

P403+P233: Store in a well-ventilated place. Keep container tightly

closed.

P405: Store locked up.

P501: Dispose of contents/ container to an approved waste disposal

plant.

2

HMIS Health Ratings (0-4):

Health:

Flammability: 0 Physical: 1

3. Composition

Chemical Family: Nonmetal
Additional Names: Nickel disulfide

Nickel (IV) sulfide (NiS₂):

Percentage: 100 wt% CAS #: 12035-51-7 EC #: 683-050-1

4. First Aid Procedures General Treatment: Seek medical attention if symptoms persist. Special Treatment: None **Important Symptoms:** None Remove victim to fresh air. Supply oxygen if breathing is difficult. Inhalation: Keep patient warm. Seek immediate medical attention. Ingestion: Seek immediate medical attention. Immediately wash affected area with mild soap and water. Remove any Skin: contaminated clothing. Seek immediate medical attention. Flush eyes with water, blinking often for several minutes. Remove Eyes: 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 surrounding material and type of fire. Spec. Fire Fighting Procedure: 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 Wear appropriate respiratory and protective equipment specified in If Material Is Released/Spilled: 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. 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 Ni, long-term value Permissible Exposure Limits: Threshold Limit Value: N/A Special Equipment: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. **Respiratory Protection: Dust Respirator Protective Gloves:** Rubber gloves Eve Protection: Safety glasses or goggles **Body Protection:** Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

hysical and Chemical Characteristics N/A Powder, Granules, Pellets, Sputtering target, Custom parts N/A Insoluble N/A N/A N/A
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N/A Insoluble N/A N/A
Insoluble N/A N/A
N/A N/A
N/A
N/A
N/A
122.82 g/mol
10. Reactivity
Stable under recommended storage conditions
Oxidizing agents
None
Metal oxide fume, sulfur oxides, nickel oxides
11. Toxicological Information
Causes serious eye irritation
Harmful in contact with skin. Causes skin irritation.
Harmful if swallowed
Harmful if inhaled. May cause respiratory irritation
Causes damage to the lung, the kidneys and the liver through prolonged or repeated exposure. Route of exposure: inhalation.
of repeated exposure. Route of exposure, filliaration.
N/A
N/A
N/A
Possible human carcinogen
IARC: 1 - Group 1: Carcinogenic to humans (Nickel sulfide)
NTP: Known to be human carcinogen (Nickel sulfide)
OSHA: No component of this product present at levels greater than or
equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA
12. Ecological Information
N/A
N/A
N/A
Do not allow product to reach ground water, water course or sewage
system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into
the ground.
Also poisonous for fish and plankton in water bodies.
May cause long lasting harmful effect to aquatic life.

13. Disposal Considerations

Avoid transfer into the environment. Very toxic for aquatic organisms.

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

14. Transportation Data

Hazardous: Hazardous as powder only.



Hazard Class: 9 Miscellaneous dangerous substances and articles

Packing Group: III UN Number: UN3077

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

sulfide)

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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