

LTS Research Laboratories, Inc. Safety Data Sheet Nickel Sulfide

1. Product and Company Identification

Trade Name: Nickel Sulfide

Chemical Formula: Ni₃S₂

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: 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 if inhaled

H410: Very toxic to aquatic life with long lasting effects

Precautionary Statements: P202: Do not handle until all safety precautions have been read and

understood

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

P264: Wash face, hands and any exposed skin thoroughly after

handling

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

P272: Contaminated work clothing should not be allowed out of the

workplace

P273: Avoid release to the environment

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

protection

P281: Use personal protective equipment as required P302+P352: IF ON SKIN: Wash with soap and water

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

P333+P313: If skin irritation or a rash occurs: Get medical

advice/attention

P363: Wash contaminated clothing before reuse

P391: Collect spillage P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 3 0 Flammability: Physical: 0

3. Composition

Chemical Family: Inorganic compound

Additional Names: Nickel Subsulfide, Trinickel Disulfide

Nickel Sulfide (Ni₃S₂)

Percentage: 100 wt% CAS #: 12035-72-2 EC #: 234-829-6

4. First Aid Procedures

General Treatment: Seek medical attention if symptoms persist.

Special Treatment: None **Important Symptoms:** N/A

Inhalation: Remove victim to fresh air. Supply oxygen if breathing is difficult.

Seek medical attention.

Ingestion: Rinse mouth with water. Never give anything by mouth to an

unconscious person. Seek medical attention.

Wash affected area with mild soap and water. Remove any Skin:

contaminated clothing. Seek medical attention.

Flush eyes with water, blinking often for several minutes. Remove Eyes:

contact lenses if present and easy to do. Continue rinsing. Seek medical

attention.

5. Firefighting Measures

Flammability: Non-Flammable, except as powder

Use water spray, alcohol-resistant foam, dry chemical or carbon Extinguishing Media:

dioxide.

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. 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.

Store in a cool dry place in a tightly sealed container. Store apart from **Storage Conditions:**

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

Permissible Exposure Limits: 1 mg/m³ as Ni, long term-value Threshold Limit Value: 0.1 mg/m³ as Ni, long term-value

Special Equipment: None

Respiratory Protection: Use a recommended dust respirator or mask. Only use equipment tested

and approved under appropriate government standards.

Protective Gloves: Rubber gloves

Safety glasses or goggles Eye Protection:

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

sleeves/pants.

9. Physical and Chemical Characteristics

Color Grey

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

Odor:

0.00735 g/l at 20 °C - OECD Test Guideline 105 - slightly soluble Water Solubility:

Boiling Point: N/A Melting Point: 797 °C Flash Point: N/A > 400 °C Autoignition Temperature: Density: 5.87 g/cm^3

240.20 g/mol Molecular weight:

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Strong acids, Strong oxidizing agents

Incompatible Conditions:

Hazardous Decomposition Products: Sulphur oxides, Nickel/Nickel oxides

11. Toxicological Information

Potential Health Effects:

Eyes: May cause irritation

Skin: May cause an allergic reaction

Ingestion: May cause irritation
Inhalation: May cause cancer

Chronic: Causes damage to organs through prolonged or repeated exposure

Signs & Symptoms: May cause Rash, Itching, Swelling, Trouble breathing, Tingling of

hands and feet, Dizziness, Lightheadedness, Chest pain, Muscle pain or

flushing

Aggravated Medical Conditions: May cause cancer

Median Lethal Dose: LD50 Oral - Rat - female - > 11,000 mg/kg

LC50 Inhalation - Rat - male and female - 4 h - 1.13785 mg/l

Carcinogen: IARC: 1 - Group 1: Carcinogenic to humans

NTP-K: Known to be carcinogenic: reasonably anticipated to be a

human carcinogen.

OSHA: No component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

12. Ecological Information

Aquatic Toxicity: Very toxic to aquatic life with long lasting effects

Persistent Bioaccumulation Toxicity: May persist

Very Persistent, Very Bioaccumulative: N/A

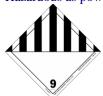
Notes: Do not allow material to contaminate the ground water system

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 hazardous materials

Packing Group: III UN Number: UN3077

Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s. (Nickel 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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