

LTS Research Laboratories, Inc. Safety Data Sheet Nickel Molybdenum Oxide

1. Product and Company Identification

Trade Name: Nickel Molybdenum Oxide

Chemical Formula: NiMoO₄

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

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 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

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

protection

P281: Use personal protective equipment as required

P302+P350: IF ON SKIN: Gently wash with plenty of soap and water P308+P313: IF exposed or concerned: Get medical advice/attention

P363: Wash contaminated clothing before reuse

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: **Inorganic Compound** Nickel Molybdate, Molybdenum Nickel Oxide Additional Names: Nickel Molybdenum Oxide (NiMoO₄): Percentage: 0-100 wt% CAS #: 14177-55-0 EC #: 238-034-5 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. Get medical attention. Ingestion: Clean mouth with water and drink afterwards plenty of water. Get medical attention. Skin: Wash affected area with mild soap and water. Remove any contaminated clothing. Get medical attention. Flush eyes with water, blinking often for several minutes. Remove Eyes: contact lenses if present and easy to do. Continue rinsing. Get medical attention. 5. Firefighting Measures Flammability: Non-flammable, except as powder No special restrictions – use suitable extinguishing agent for Extinguishing Media: surrounding material and type of fire. Do not use water for metal fires – use CO₂, sand, extinguishing powder. 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 If Material Is Released/Spilled: 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. **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. Keep product and empty container away from heat and sources of ignition. Store apart from materials and conditions listed in section 10. Do not use tobacco or food in work area. Wash thoroughly before Work/Hygienic Maintenance: 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 NiMoO₄, long-term value Threshold Limit Value: 0.2 mg/m³ as NiMoO₄, long-term value

Special Equipment: None

Respiratory Protection:
Protective Gloves:
Dust Respirator
Rubber gloves

Eye Protection: Safety glasses or goggles

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

sleeves/pants.

9. Physical and Chemical Characteristics

Color Green

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

Odor:
Water Solubility:
N/A
Boiling Point:
N/A
Melting Point:
N/A
Flash Point:
N/A
Autoignition Temperature:
N/A
Density:
N/A

Molecular weight: 218.65 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With:
Incompatible Conditions:

Oxidizing agents
None

Hazardous Decomposition Products: Nickel Oxides, Molybdenum Oxides

11. Toxicological Information

Potential Health Effects:

Eyes: May cause irritation

Skin: May cause allergic skin reaction

Ingestion: May cause irritation
Inhalation: May cause cancer

Chronic: Causes damage to organs through prolonged or repeated exposure

Signs & Symptoms: Rash, itching, swelling, trouble breathing, tingling of the hands and

feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

Aggravated Medical Conditions: N/A

Median Lethal Dose: N/A

Carcinogen: N/A

12. Ecological Information

Aquatic Toxicity: May cause long-term adverse effects in the environment.

Persistent Bioaccumulation Toxicity: No Very Persistent, Very Bioaccumulative: No

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

13. Disposal Considerations

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

14. Transportation Data		
Hazardous:	Not hazardous for transportation.	
	15. Regulatory Information	
Sec 302 Extremely Hazardous:	No	
Sec 304 Reportable Quantities:	N/A	
Sec 313 Toxic Chemicals:	No	

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.

Document Last Revised: 06/20/2022

