



# Loose in the Lab

Seriously Funny Science

## Material Safety Data Sheet (MSDS)

MSDS #: LL44005m

Revision Date: Nov 20, 2006

### Nickel Sulfate

#### Section 1 Chemical Product and Company Identification

### Nickel Sulfate (NiSO<sub>4</sub>)

Loose in the Lab, inc. 9462 So. 560 W. Sandy, UT 84070 (888) 403-1189

#### Section 2 Composition, Information on Ingredients

Nickel sulfate, hexahydrate

Synonyms: nickel(II) sulfate, nickelous sulfate

CAS#: 10101-97-0

#### Section 3 Hazards Identification

Blue or emerald green crystals. Odorless.

Moderately toxic by ingestion and inhalation. Nickel compounds are known carcinogens by inhalation of dust.

Sensitizer and strong skin irritant. Avoid ingestion, inhalation and skin absorption.

#### Quick Reference:

Health - 2

Flammability - 0

Reactivity - 0

Exposure - 1

Storage - 0

0 is Low hazard

3 is High hazard

#### Section 4 First Aid Measures

Call a physician, seek medical attention for further treatment, observation and support after first aid.

**Inhalation:** Remove to fresh air at once. If breathing has stopped give artificial respiration immediately.

**Eye:** Immediately flush with fresh water for 15 minutes.

**External:** Wash continuously with fresh water for 15 minutes.

**Internal:** Rinse out mouth, give 1 to 2 cups of water or milk, induce vomiting. Call a physician or poison control at once.

#### Section 5 Fire Fighting Measures

Non combustible solid.

When heated to decomposition, emits toxic fumes of SO<sub>x</sub>.

#### NFPA CODE

None

Established

#### Section 6 Accidental Release Measures

Restrict unprotected personnel from area and ventilate area. Contain spill with sand or absorbent material; deposit in sealed bag or container. See Sections 8 and 13 for further information.

#### Section 7 Handling and Storage

Suggested Chemical Storage Pattern: Inorganic #2. Store with acetates, halides, sulfates, sulfites, thiosulfates and phosphates. Store in a cool dry place. Use and dispense in a hood.

#### Section 8 Exposure Controls, Personal Protection

Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, chemical-resistant gloves and chemical-resistant apron.

Use ventilation to keep airborne concentrations below exposure limits. Always wear a NIOSH-approved respirator with proper cartridges or a positive pressure, air-supplied respirator when handling this material in emergency situations (spill or fire). Exposure guidelines: TWA 1 mg/m<sup>3</sup> (Ni) (OSHA)



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#### Section 9 Physical and Chemical Properties

Blue or emerald green crystals. Odorless.

Solubility: Soluble in water, alcohol. Loses 6H<sub>2</sub>O at 103 C

Formula: NiSO<sub>4</sub> 6H<sub>2</sub>O

Formula Weight: 262.89

Specific Gravity: 2.031

#### Section 10 Stability and Reactivity

Avoid contact with strong oxidizers.

When heated to decomposition, emits toxic fumes of SO<sub>x</sub>.

Shelf life: Indefinite

#### Section 11 Toxicological Information

Acute effects: Toxic, sensitizer

Chronic effects: Dermatitis, mutagen

Target organs: Lungs

ORL-RAT LD50: 275 mg/kg

IHL-RAT LC50: N.A

SKN-RBT LD50: N.A

#### Section 12 Ecological Information

Data not yet available.

#### Section 13 Disposal Considerations

Please consult with state and local regulations.

#### Section 14 Transport Information

Shipping Name: Not regulated

Hazard Class: N/A

UN Number: N/A

N/A = Not applicable

#### Section 15 Regulatory Information

TSCA-listed, EINECS-listed (232-104-9).

#### Section 16 Other Information

Consult your copy of the Loose in the Lab Catalog/Reference Manual for additional information about laboratory chemicals. This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Loose in the Lab Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. Loose in the Lab Inc. assumes no legal responsibility for use or reliance upon this data.