Material Safety Data Sheet  
Nickel sulfate hexahydrate MSDS

Section 1: Chemical Product and Company Identification

Product Name: Nickel sulfate hexahydrate  
Catalog Codes: SLN1735, SLN2350  
CAS#: 10101-97-0  
RTECS: QR9600000  
TSCA: TSCA 8(b) inventory: Nickel sulfate hexahydrate  
CI#: Not available.  
Synonym:  
Chemical Name: Not available.  
Chemical Formula: NiSO4.6H2O

Contact Information:  
Sciencelab.com, Inc.  
14025 Smith Rd.  
Houston, Texas 77396  
US Sales: 1-800-901-7247  
International Sales: 1-281-441-4400  
Order Online: ScienceLab.com  
CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300  
International CHEMTREC, call: 1-703-527-3887  
For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS #</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nickel sulfate hexahydrate</td>
<td>10101-97-0</td>
<td>100</td>
</tr>
</tbody>
</table>

Toxicological Data on Ingredients: Nickel sulfate hexahydrate: ORAL (LD50): Acute: 264 mg/kg [Rat].

Section 3: Hazards Identification

Potential Acute Health Effects:
Very hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Potential Chronic Health Effects:
Very hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. CARCINOGENIC EFFECTS: Classified A1 (Confirmed for human.) by ACGIH, 1 (Proven for human.) by IARC, + (PROVEN) by OSHA. Classified 2 (Reasonably anticipated.) by NTP. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Section 4: First Aid Measures

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p. 1
Eye Contact:
Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

Skin Contact:
After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention.

Serious Skin Contact:
Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Serious Inhalation: Not available.

Ingestion:
Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Non-flammable.
Auto-Ignition Temperature: Not applicable.
Flash Points: Not applicable.
Flammable Limits: Not applicable.
Products of Combustion: Not available.
Fire Hazards in Presence of Various Substances: Not applicable.
Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions: Not applicable.
Special Remarks on Fire Hazards: Not available.
Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill:
Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:
Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage
Precautions:
Keep locked up Do not ingest. Do not breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes

Storage:
Carcinogenic, teratogenic or mutagenic materials should be stored in a separate locked safety storage cabinet or room.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:
Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:
TWA: 0.1 (mg/m3) Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid. (Crystalline solid.)

Odor: Odorless.

Taste: Not available.

Molecular Weight: 262.85 g/mole

Color: Emerald-green.

pH (1% soln/water): Not available.

Boiling Point: Not available.

Melting Point: Not available.

Critical Temperature: Not available.

Specific Gravity: 2.03 (Water = 1)

Vapor Pressure: Not applicable.

Vapor Density: 9.1 (Air = 1)

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: See solubility in water.

Solubility: Soluble in cold water, hot water.

Section 10: Stability and Reactivity Data
<table>
<thead>
<tr>
<th><strong>Stability:</strong></th>
<th>The product is stable.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Instability Temperature:</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Conditions of Instability:</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Incompatibility with various substances:</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Corrosivity:</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Special Remarks on Reactivity:</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Special Remarks on Corrosivity:</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Polymerization:</strong></td>
<td>No.</td>
</tr>
</tbody>
</table>

### Section 11: Toxicological Information

<table>
<thead>
<tr>
<th><strong>Routes of Entry:</strong></th>
<th>Eye contact. Inhalation. Ingestion.</th>
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</thead>
<tbody>
<tr>
<td><strong>Toxicity to Animals:</strong></td>
<td>Acute oral toxicity (LD50): 264 mg/kg [Rat].</td>
</tr>
<tr>
<td><strong>Chronic Effects on Humans:</strong></td>
<td>CARCINOGENIC EFFECTS: Classified A1 (Confirmed for human.) by ACGIH, 1 (Proven for human.) by IARC, + (PROVEN) by OSHA. Classified 2 (Reasonably anticipated.) by NTP.</td>
</tr>
<tr>
<td><strong>Other Toxic Effects on Humans:</strong></td>
<td>Very hazardous in case of skin contact (irritant), of ingestion, of inhalation.</td>
</tr>
<tr>
<td><strong>Special Remarks on Toxicity to Animals:</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Special Remarks on Chronic Effects on Humans:</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Special Remarks on other Toxic Effects on Humans:</strong></td>
<td>Not available.</td>
</tr>
</tbody>
</table>

### Section 12: Ecological Information

<table>
<thead>
<tr>
<th><strong>Ecotoxicity:</strong></th>
<th>Not available.</th>
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<tbody>
<tr>
<td><strong>BOD5 and COD:</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Products of Biodegradation:</strong></td>
<td>Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.</td>
</tr>
<tr>
<td><strong>Toxicity of the Products of Biodegradation:</strong></td>
<td>The products of degradation are more toxic.</td>
</tr>
<tr>
<td><strong>Special Remarks on the Products of Biodegradation:</strong></td>
<td>Not available.</td>
</tr>
</tbody>
</table>

### Section 13: Disposal Considerations

| **Waste Disposal:** | |

### Section 14: Transport Information

<table>
<thead>
<tr>
<th><strong>DOT Classification:</strong></th>
<th>Not a DOT controlled material (United States).</th>
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<tbody>
<tr>
<td><strong>Identification:</strong></td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Special Provisions for Transport:</strong></td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

### Section 15: Other Regulatory Information
Federal and State Regulations:
California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Nickel sulfate hexahydrate


Other Classifications:

WHMIS (Canada):
CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC). CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

DSCL (EEC):
R22- Harmful if swallowed. R38- Irritating to skin. R41- Risk of serious damage to eyes. R45- May cause cancer.

HMIS (U.S.A.):
- Health Hazard: 2
- Fire Hazard: 0
- Reactivity: 0
- Personal Protection: E

National Fire Protection Association (U.S.A.):
- Health: 2
- Flammability: 0
- Reactivity: 0
- Specific hazard:

Protective Equipment:
Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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