Section 1: Product Identification
Chemical Name: Nickel (II) dimethylglyoxime, 99%
Product Number: 93-2815
CAS Registry Number: 13478-93-8
Formula: Ni(HC4H6N2O2)2
EINECS Number: 236-782-7
Chemical Family: organometallic complexes
Synonym: Dimethylglyoxime, nickel salt

Section 2: Composition and Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS Number</th>
<th>Percent</th>
<th>ACGIH (TWA)</th>
<th>OSHA (PEL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title Compound</td>
<td>13478-93-8</td>
<td>100%</td>
<td>0.2mg/m3 (as Ni)</td>
<td>1mg/m3 (as Ni)</td>
</tr>
</tbody>
</table>

Section 3: Hazards Identification
Emergency Overview: Irritating to skin, eyes and mucous membranes. May cause cancer.
Primary Routes of Exposure:
- Ingestion, inhalation of dust
- Eye Contact: Causes slight to mild irritation of the eyes.
- Skin Contact: Causes slight to mild irritation of the skin.
- Inhalation: Irritating to the nose, mucous membranes and respiratory tract.
- Ingestion: Ingestion may lead to vomiting, and diarrhea.
- Acute Health Affects: Irritating to skin, eyes and respiratory tract.
- Chronic Health Affects: Prolonged exposure to nickel and nickel compounds may lead to skin irritation and dermatitis, and affect kidney, liver, and lung function. May cause cancer.
- NTP: Yes
- IARC: Yes
- OSHA: No

SECTION 4: First Aid Measures

- Eye Exposure: Immediately flush the eyes with copious amounts of water for at least 10-15 minutes. A victim may need assistance in keeping their eye lids open. Get immediate medical attention.
- Skin Exposure: Wash the affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.
- Inhalation: Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.
- Ingestion: Seek medical attention immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.
SECTION 5: Fire Fighting Measures

- Flash Point: not applicable
- Autoignition Temperature: none
- Explosion Limits: none
- Extinguishing Medium: carbon dioxide, foam or dry powder
- Special Fire Fighting Procedures: If this product is involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.
- Hazardous Combustion and Decomposition Products: If involved in a fire this material may emit toxic fumes.
- Unusual Fire or Explosion Hazards: No unusual fire or explosion hazards.

SECTION 6: Accidental Release Measures

Spill and Leak Procedures: Small spills can be mixed with vermiculite, sodium carbonate or other suitable non combustible adsorbent and swept up.

SECTION 7: Handling and Storage

Handling and Storage: Store in a cool, dry place in a tightly sealed container.

SECTION 8: Exposure Controls and Personal Protection

- Eye Protection: Always wear approved safety glasses when handling a chemical substance in the laboratory.
- Skin Protection: Wear protective clothing and gloves.
- Ventilation: Material may form a fine dust. If possible, handle the material in an efficient fume hood.
- Respirator: If ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 1910.134.
- Ventilation: Material may form a fine dust. If possible, handle the material in an efficient fume hood.
- Additional Protection: No additional protection required.

SECTION 9: Physical and Chemical Properties

- Color and Form: reddish-purple pwdr.
- Molecular Weight: 288.94
- Melting Point: 250°C subl.
- Boiling Point: no data
- Vapor Pressure: not applicable
- Specific Gravity: no data
- Odor: none
- Solubility in Water: insoluble

SECTION 10: Stability and Reactivity

- Stability: air and moisture stable
- Hazardous Polymerization: no hazardous polymerization
- Conditions to Avoid: none
- Incompatibility: oxidizing agents
- Decomposition Products: carbon monoxide, carbon dioxide, nickel oxide and organic fumes.
SECTION 11: Toxicological Information

RTECS Data: No information available in the RTECS files.
Carcinogenic Effects: Carcinogen (as Ni)
Mutagenic Effects: No data
Tetragenic Effects: No data

SECTION 12: Ecological Information

Ecological Information: No information available

SECTION 13: Disposal Considerations

Disposal: Dispose of according to local, state and federal regulations.

SECTION 14: Transportation

Shipping Name (CFR): Non-hazardous
Hazard Class (CFR): NA
Additional Hazard Class (CFR): NA
Packaging Group (CFR): NA
UN ID Number (CFR): NA
Shipping Name (IATA): Non-hazardous
Hazard Class (IATA): NA
Additional Hazard Class (IATA): NA
Packaging Group (IATA): NA
UN ID Number (IATA): NA

SECTION 15: Regulatory Information

TSCA: Not listed in the TSCA inventory.
SARA (Title 313): Title compound: See category code N495 for reporting.
Second Ingredient: None
Third Ingredient: None

SECTION 16: Other Information

Disclaimer: The information herein is believed to be accurate and reliable as of the date compiled. However, Strem Chemicals, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information contained in this document or any use of the product based on this information.
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Revision Date: 8/16/2011