SAFETY DATA SHEET

Section 1. IDENTIFICATION

Product Identifier

Product Name Nickel Thred Gard.

Other means of Identification

Product Code NG04, NG08, NG16.

Recommended Use Anti Seize Compound.

Recommended Restrictions None Known.

Manufacturer

Company Name Federal Process Corporation
Address 4520 Richmond Road
Cleveland OH 44128
Telephone 1-800-846-7325

Emergency Telephone Number: Call Chemtrec at 1-800-424-9300

Section 2. HAZARDS IDENTIFICATION

Classification:

<table>
<thead>
<tr>
<th>Physical State:</th>
<th>Grease Like</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>Category 1</td>
</tr>
</tbody>
</table>

Signal Word: Warning

Hazard Statements: H319 – Causes serious eye irritation.

H317 – May cause an allergic skin reaction
Precautionary Statements:

Prevention: Not expected to be present a hazard during normal use.

Response:

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 – If eye irritation persists: Get medical advice/attention.

P332 + P313 – If skin irritation or rash occurs: Get medical advice/attention.

Disposal: P501 - Dispose of contents/container to an approved waste disposal plant.

Other Hazards: Toxic to aquatic life with long lasting effects.

Unknown Acute Toxicity: 2% of the mixture consists of ingredient(s) of unknown toxicity.

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum oil</td>
<td>64741-96-4</td>
<td>60-80</td>
</tr>
<tr>
<td>Nickel</td>
<td>7440-02-0</td>
<td>5-10</td>
</tr>
</tbody>
</table>

Section 4. FIRST AID MEASURES

First Aid Measures:

Eye Contact         Rinse thoroughly with plenty of water, for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

Skin Contact        If skin irritation occurs, rinse affected area with water. If skin irritation or rash occurs: Get medical advice/attention.

Inhalation          Remove to fresh air. If signs/symptoms continue, get medical attention. Give oxygen or artificial respiration as needed.
Nickel Thred Guard

Ingestion

Do NOT induce vomiting. Get medical attention immediately. Rinse mouth with water. Never give anything by mouth to an unconscious individual.

**Most Important Symptoms and effects:**

**Symptoms**

Direct contact with eyes may cause temporary irritation.

Do NOT ingest.

---

**Section 5. FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media:**

Use foam, dry chemical, carbon dioxide or water fog.

**Unsuitable Extinguishing Media:**

Avoid solid water stream as it may scatter and spread fire.

**Specific Hazards Arising from the Chemical:**

Carbon oxides expected to be the primary hazardous combustion product.

**Protective Equipment and Precautions for Firefighters:**

As in any fire, wear self-contained breathing apparatus and other protective clothing (approved or equivalent) and full protective gear.

---

**Section 6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective Equipment and Emergency Procedures:**

**Personal Precautions:**

Use personal protective equipment as required. Keep unnecessary personnel away.

**Methods and Material for Containment and Cleaning Up:**

**Methods for Containment:**

Prevent further leakage or spillage if safe to do so.

**Methods for Clean-Up:**

Keep in suitable, closed containers for disposal.

---

**Section 7. HANDLING AND STORAGE**

**Precautions for Safe Handling:**

**Advice on Safe Handling:**

Avoid breathing vapors or mists. Contaminated work-clothing should not be allowed out of the workplace.

**Conditions for Safe Storage, including**
Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TWA</th>
<th>ACGIH STEL</th>
<th>OSHA TWA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum oil</td>
<td>5 mg/m³</td>
<td>N/A</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td>(CAS 64741-96-4)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nickel</td>
<td>1 mg/m³</td>
<td>N/A</td>
<td>0.1 mg/m³</td>
</tr>
<tr>
<td>(CAS 7440-02-0)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Appropriate Engineering Controls:

Engineering Controls: Apply technical measures to comply with the occupational exposure limits.

Individual Protection Measures, such as

Personal Protective Equipment:

Eye/Face Protection: Avoid contact with eyes.

Skin and Body Protection: No protective equipment is needed under normal use conditions.

Respiratory Protection: Ensure adequate ventilation, especially in confined areas. If confined in poorly ventilated areas use NIOSH/MSHA

General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practice. Wash exposed areas thoroughly before eating, drinking, smoking or leaving work area. Launder contaminated clothing before reusing.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Odor:</th>
<th>Odor Threshold:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State:</td>
<td>Grease like.</td>
<td>Mild/grease like.</td>
<td></td>
</tr>
<tr>
<td>Appearance:</td>
<td>Viscous..</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color:</td>
<td>Grey metallic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Any Incompatibilities:

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store near heat, sparks, or open flames. KEEP OUT OF REACH OF CHILDREN.

Incompatible Materials: None known based on information supplied.
Nickel Thred Guard

Melting Point/Freezing Point: Not determined.
Boiling Point/Boiling Range: Not determined.
Flash Point: >450F (>232C) Closed Cup.
Evaporation Rate: Not determined.
Flammability (Solid, Gas): n/a-liquid
Upper Flammability Limit: Not determined.
Lower Flammability Limit: Not determined.
Vapor Pressure: Not determined.
Vapor Density: Not determined.
Specific Gravity: Not determined.
Water Solubility: None.
Solubility in other Solvents: Not determined.
Partition Coefficient (n-octanol/water): Not determined.
Auto-ignition Temperature: Not determined.
Decomposition Temperature: Not determined.
Kinematic Viscosity: Not determined.
Explosive Properties: Not determined.
Oxidizing Properties: Not determined.

Section 10. STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions.
Chemical Stability: Stable under recommended storage conditions.
 Possibility of Hazardous Reactions: None under normal processing.
Conditions to Avoid: Keep out of reach of children.
Incompatible Materials: None known.
Hazardous Decomposition Products: Oxides of carbon.

Section 11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure:
Nickel Thred Guard.

Eye Contact: Causes serious eye irritation.

Skin Contact: May cause an allergic skin reaction.

Inhalation: Avoid breathing vapors or mists.

Ingestion: Do not taste or swallow.

Component Information:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum oil (CAS 64741-96-4)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Nickel (CAS 7440-02-0)</td>
<td>5 g/kg (Rat)</td>
<td>NO DATA</td>
<td>NO DATA</td>
</tr>
</tbody>
</table>

Information on physical, chemical and toxicological effects:

Symptoms: Please section 4 of this SDS for symptoms.

Delayed and Immediate Effects as Well as Chronic Effects From Short and Long Term Exposure:

Sensitization: May cause an allergic skin reaction.

Carcinogenicity: Nickel has been reported by NTP, OSHA and IARC as a possible carcinogen.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum oil (CAS 64741-96-4)</td>
<td>No Data</td>
<td>No Data</td>
<td>No Data</td>
<td>No Data</td>
</tr>
<tr>
<td>Nickel (CAS740-02-0)</td>
<td>1 mg/m3 as dust</td>
<td>No Data</td>
<td>No Data</td>
<td>1 mg/m3</td>
</tr>
</tbody>
</table>

Legend

IARC (International Agency for Research on Cancer).
Group3 IARC components are “not classifiable as human carcinogens”.
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
X - Present

Numerical Measures of Toxicity:

Not Determined.

---

Section 12. ECOLOGICAL INFORMATION
Ecotoxicity:

Toxic to aquatic life with lasting effects.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum oil</td>
<td>N/D</td>
<td>N/D</td>
<td>N/D</td>
<td>N/A</td>
</tr>
<tr>
<td>(64741-96-4)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nickel</td>
<td>N/D</td>
<td>N/D</td>
<td>N/D</td>
<td>N/D</td>
</tr>
<tr>
<td>(7440-02-0)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Persistence/Degradability: Not determined.

Bioaccumulation: Not determined.

Mobility: Not determined.

Other Adverse Effects: Not determined.

Do not allow this compound to enter water-ways or sewers.

---

**Section 13. DISPOSAL CONSIDERATIONS**

Waste Treatment Method:

Disposal of Wastes: Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging: Disposal should be in accordance with applicable regional, national and local laws and regulations.

---

**Section 14. TRANSPORT INFORMATION**

DOT: Not Regulated

PROPER SHIPPING NAME: N/A.

IDENTIFICATION NUMBER: N/A.

IATA: Not regulated

IMDG: Not regulated.
Section 15. REGULATORY INFORMATION

International Inventories: Not determined.

Petroleum oil
SARA 313: No.

Copper flakes
SARA 313 Yes

TSCA Inventory:
CERCLA RQ Yes 100 lbs.

U.S Right-to-Know Regulations: Not determined.

Section 16. OTHER INFORMATION

NFPA: Health Hazards Flammability Instability Special Hazards
1 1 0 Not determined

HMIS Health Hazards Flammability Instability Special Hazards
1 1 0 Not determined

Issue Date: 1st March 2014
Revision Date: 23rd March 2018

DISCLAIMER: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet