Section 1: Product & Company Identification

Product Name: Copper Anti-Seize and Lubricating Compound

Product Number (s): SL35901, SL35903

Manufactured By:
CRC Industries, Inc.
885 Louis Drive
Warminster, PA 18974
www.crcindustries.com

General Information (215) 674-4300
Technical Assistance (800) 521-3168
Customer Service (800) 272-4620
24-Hr Emergency (CHEMTREC) (800) 424-9300

Section 2: Hazards Identification

Emergency Overview

Appearance & Odor: Copper semi-solid paste with petroleum odor

As defined by OSHA's Hazard Communication Standard, this product is hazardous.

Potential Health Effects:

EYE: May cause irritation.

SKIN: For hypersensitive persons, may irritate the skin after prolonged periods of time.

INHALATION: Viscous nature may block breathing passages if inhaled.

INGESTION: May cause diarrhea

CHRONIC EFFECTS: None known

TARGET ORGANS: None known

Medical Conditions Aggravated by Exposure:

pre-existing skin sensitivities

See Section 11 for toxicology and carcinogenicity information on product ingredients.
Section 3: Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>CAS NUMBER</th>
<th>% by Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum Oil</td>
<td>64742-57-0 / 64742-52-5</td>
<td>60 - 70</td>
</tr>
<tr>
<td>Nonhazardous blend</td>
<td>82980-54-9 / 471-34-1 / 14807-96-6</td>
<td>25 - 40</td>
</tr>
<tr>
<td>Graphite</td>
<td>7782-42-5</td>
<td>1 - 10</td>
</tr>
<tr>
<td>Copper powder</td>
<td>7440-50-8</td>
<td>1 - 10</td>
</tr>
</tbody>
</table>

Section 4: First Aid Measures

Eye Contact: Immediately flush with plenty of water for 15 minutes or until all residual material is gone. Call a physician if irritation persists.

Skin Contact: Remove contaminated clothing and wash affected area with soap and water. Call a physician if irritation persists. Wash contaminated clothing prior to re-use.

Inhalation: Remove person to fresh air. Keep person calm. Clear air passage. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Call a physician.

Ingestion: Wash out mouth immediately. Consult physician.

Note to Physicians: Treat symptomatically.

Section 5: Fire-Fighting Measures

Flammable Properties: This product is not flammable.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point:</td>
<td>430°F (COC)</td>
</tr>
<tr>
<td>Autoignition Temperature:</td>
<td>&gt; 500°F</td>
</tr>
<tr>
<td>Upper Explosive Limit:</td>
<td>7.0</td>
</tr>
<tr>
<td>Lower Explosive Limit:</td>
<td>0.9</td>
</tr>
</tbody>
</table>

Suitable Extinguishing Media: Foam, dry powder, Halon®, carbon dioxide, sand, earth & water mist. Do not use water jet.

Products of Combustion: Smoke, soot, hydrocarbons and oxides of carbon, sulfur & nitrogen.

Protection of Fire-Fighters: Firefighters should wear self-contained, NIOSH-approved breathing apparatus for protection against suffocation and possible toxic decomposition products. Proper eye and skin protection should be provided. Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition.

Section 6: Accidental Release Measures

Personal Precautions: Use personal protection recommended in Section 8.

Environmental Precautions: Take precautions to prevent contamination of ground and surface waters. Do not flush into sewers or storm drains.
Methods for Containment & Clean-up: Dike area to contain spill. Ventilate the area with fresh air. If in confined space or limited air circulation area, clean-up workers should wear appropriate respiratory protection. Scrape up bulk, then wipe up remainder with cloth. To prevent walking hazard, pick up remaining residue with diatomaceous earth.

Section 7: Handling and Storage

Handling Procedures: Do not use near sources of ignition. Provide adequate ventilation during use. Wear appropriate personal protective equipment.

Storage Procedures: Store in a cool dry area out of direct sunlight. Keep out of reach of children and pets.

Aerosol Storage Level: NA

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>OSHA</th>
<th>ACGIH</th>
<th>OTHER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TWA</td>
<td>STEL</td>
<td>TWA</td>
</tr>
<tr>
<td>Petroleum oil</td>
<td>5*</td>
<td>NE</td>
<td>5*</td>
</tr>
<tr>
<td>Nonhazardous blend</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
</tr>
<tr>
<td>Graphite</td>
<td>2.5 (v)</td>
<td>NE</td>
<td>2</td>
</tr>
<tr>
<td>Copper powder</td>
<td>1</td>
<td>NE</td>
<td>0.1</td>
</tr>
</tbody>
</table>

N.E. – Not Established (c) – ceiling (s) – skin (v) – vacated * - oil mist

Engineering Controls: Area should have ventilation to provide fresh air. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at the source, preventing dispersion into the general work area. Use mechanical means if necessary to maintain vapor levels below the exposure guidelines. If working in a confined space, follow applicable OSHA regulations.

Respiratory Protection: None required for normal work where adequate ventilation is provided. If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies.

Eye/face Protection: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

Skin Protection: Use protective gloves such as nitrile or PVC. Also, use full protective clothing if there is prolonged or repeated contact of liquid with skin.

Section 9: Physical and Chemical Properties

Physical State: Semi-solid paste
**Product Name:** Copper Anti-Seize and Lubricating Compound  
**Product Number(s):** SL35901, SL35903

Color: Copper/bronze  
Odor: Petroleum  
Specific Gravity: 1.09  
Initial Boiling Point: ND  
Freezing Point: ND  
Vapor Pressure: < 0.01 kPa  
Vapor Density: > 5 (air = 1)  
Evaporation Rate: < 0.01 (butyl acetate = 1)  
Solubility: Negligible in water  
P pH: NA  
Volatile Organic Compounds: wt %: 0, g/L: 0, lbs./gal: 0

**Section 10: Stability and Reactivity**

Stability: Stable  
Conditions to Avoid: Sources of ignition, temperature extremes  
Incompatible Materials: Strong inorganic and organic acids, oxidizing and copper reactive agents  
Hazardous Decomposition Products: Smoke, airborne soot, hydrocarbons and oxides of carbon, sulfur, & nitrogen  
Possibility of Hazardous Reactions: No

**Section 11: Toxicological Information**

Long-term toxicological studies have not been conducted for this product. The following information is available for components of this product.

**ACUTE EFFECTS**

<table>
<thead>
<tr>
<th>Component</th>
<th>Test</th>
<th>Result</th>
<th>Route</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>No information available</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**CHRONIC EFFECTS**

Carcinogenicity:

<table>
<thead>
<tr>
<th>Component</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSHA:</td>
<td>None listed</td>
</tr>
<tr>
<td>IARC:</td>
<td>None listed</td>
</tr>
<tr>
<td>NTP:</td>
<td>None listed</td>
</tr>
</tbody>
</table>

Mutagenicity: No information available  
Other: None

**Section 12: Ecological Information**

Ecological studies have not been conducted for this product. The following information is available for components of this product.

Ecotoxicity: In extreme cases, may generate fractions that could act as a marine pollutant.
Product Name: Copper Anti-Seize and Lubricating Compound
Product Number(s): SL35901, SL35903

Persistence / Degradability: No information available.
Bioaccumulation / Accumulation: Bioaccumulation potential nil.
Mobility in Environment: Highly unlikely to cause widespread contamination.

Section 13: Disposal Considerations

Disposal: This product is not a RCRA hazardous waste. (See 40 CFR Part 261.20 – 261.33)
Empty containers may be recycled.

All disposal activities must comply with federal, state and local regulations. Local regulations may be more stringent than state or national requirements.

Section 14: Transport Information

Proper shipping description:

US DOT (ground): Not Regulated

Special Provisions: None

Section 15: Regulatory Information

U.S. Federal

Toxic Substances Control Act (TSCA):

All ingredients are either listed on the TSCA inventory or are exempt.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Reportable Quantities (RQ’s) exist for the following ingredients: copper (5,000 lbs)

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Superfund Amendments Reauthorization Act (SARA) Title III:

Section 302 Extremely Hazardous Substances (EHS): None

Section 311/312 Hazard Categories:

<table>
<thead>
<tr>
<th>Category</th>
<th>Hazard Category</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire Hazard</td>
<td>Fire Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Reactive Hazard</td>
<td>Reactive Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Release of Pressure</td>
<td>Release of Pressure</td>
<td>No</td>
</tr>
<tr>
<td>Acute Health Hazard</td>
<td>Acute Health Hazard</td>
<td>Yes</td>
</tr>
<tr>
<td>Chronic Health Hazard</td>
<td>Chronic Health Hazard</td>
<td>No</td>
</tr>
</tbody>
</table>

Section 313 Toxic Chemicals: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:
Copper (< 10%)

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): None
Product Name: Copper Anti-Seize and Lubricating Compound  
Product Number(s): SL35901, SL35903

State Regulations

California Safe Drinking Water and Toxic Enforcement Act (Prop 65):

This product may contain the following chemicals known to the state of California to cause cancer, birth defects or other reproductive harm: None

State Right to Know:

New Jersey:  7440-50-8, 7782-42-5, 471-34-1  
Pennsylvania:  7440-50-8, 7782-42-5, 471-34-1  
Massachusetts:  7440-50-8, 7782-42-5, 471-34-1  
Rhode Island:  7440-50-8, 7782-42-5, 471-34-1

Additional Regulatory Information:  None

Section 16: Other Information

NFPA: Health: 1  Flammability: 1  Reactivity: 1  
HMIS: Health: 1  Flammability: 1  Reactivity: 1  PPE: B

Prepared By: Michelle Rudnick  
CRC #: SL35901  
Revision Date: 09/09/2008

Changes since last revision: Part number removed

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label.

CAS: Chemical Abstract Service  NA: Not Applicable
ppm: Parts per Million  ND: Not Determined
TCC: Tag Closed Cup  NE: Not Established
PMCC: Pensky-Martens Closed Cup  g/L: grams per Liter
PPE: Personal Protection Equipment  lbs./gal: pounds per gallon
TWA: Time Weighted Average  STEL: Short Term Exposure Limit
OSHA: Occupational Safety and Health Administration
ACGIH: American Conference of Governmental Industrial Hygienists
NIOSH: National Institute of Occupational Safety & Health