1. Identification

Product identifier: Ball & Roller Bearing Hi-Temp Industrial Grease

Other means of identification:

- Product code: SL3630
- Recommended use: Ball & roller bearing grease
- Recommended restrictions: None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

- Company name: CRC Industries, Inc.
- Address: 885 Louis Dr.
  Warminster, PA 18974 US
- Telephone:
  - General Information: 215-674-4300
  - Technical Assistance: 800-521-3168
  - Customer Service: 800-272-4620
  - 24-Hour Emergency (CHEMTREC): 800-424-9300 (US)
    703-527-3887 (International)
- Website: www.crcindustries.com

2. Hazard(s) identification

Physical hazards: Not classified.

Health hazards:

- Sensitization, skin: Category 1

Environmental hazards:

- Hazardous to the aquatic environment, long-term hazard: Category 2

OSHA defined hazards: Not classified.

Label elements

- Signal word: Warning
- Hazard statement: May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.
- Precautionary statement:
  - Prevention: Avoid breathing vapors. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves. Avoid release to the environment.
  - Response: If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse. Collect spillage.
  - Storage: Store away from incompatible materials.
  - Disposal: Dispose of contents/container in accordance with local/regional/national regulations.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), solvent-dewaxed heavy paraffinic</td>
<td></td>
<td>64742-65-0</td>
<td>20 - 30</td>
</tr>
<tr>
<td>Aluminum hydroxide benzoate stearate</td>
<td></td>
<td>54326-11-3</td>
<td>10 - 20</td>
</tr>
</tbody>
</table>

Material name: Ball & Roller Bearing Hi-Temp Industrial Grease

SL3630   Version #: 01   Issue date: 08-06-2015
<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Molybdenum disulphide</td>
<td>—</td>
<td>1317-33-5</td>
<td>3 - 5</td>
</tr>
<tr>
<td>Tris(dipentyldithiocarbamato-S,S')antimony</td>
<td>—</td>
<td>15890-25-2</td>
<td>3 - 5</td>
</tr>
<tr>
<td>Calcium bis(dinonylnaphthalenesulphonate)</td>
<td>—</td>
<td>57855-77-3</td>
<td>&lt; 1.5</td>
</tr>
<tr>
<td>Distillates (petroleum), Hydrotreated Light Naphthenic</td>
<td>—</td>
<td>64742-53-6</td>
<td>&lt; 1.5</td>
</tr>
</tbody>
</table>

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

**Inhalation**
If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

**Skin contact**
Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.

**Eye contact**
Rinse with water. Get medical attention if irritation develops and persists.

**Ingestion**
May cause an allergic skin reaction. Dermatitis. Rash.

**Most important symptoms/effects, acute and delayed**
Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

**Indication of immediate medical attention and special treatment needed**
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

### 5. Fire-fighting measures

**Suitable extinguishing media**
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media**
None known.

**Specific hazards arising from the chemical**
During fire, gases hazardous to health may be formed.

**Special protective equipment and precautions for firefighters**
Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**Fire-fighting equipment/instructions**
Move containers from fire area if you can do so without risk.

**General fire hazards**
No unusual fire or explosion hazards noted.

### 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**
Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

**Methods and materials for containment and cleaning up**
The product is immiscible with water and will spread on the water surface. Stop the flow of material, if this is without risk. Prevent product from entering drains. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

**Environmental precautions**
Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

### 7. Handling and storage

**Precautions for safe handling**
When using do not eat or drink. Avoid release to the environment. Wash contaminated clothing before reuse. Provide adequate ventilation. Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. For product usage instructions, please see the product label.

**Conditions for safe storage, including any incompatibilities**
Keep away from heat and sources of ignition. Store in a cool, dry place out of direct sunlight. Keep container tightly closed. Store away from incompatible materials (see Section 10 of the SDS).
### 8. Exposure controls/personal protection

**Occupational exposure limits**

<table>
<thead>
<tr>
<th>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Components</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distillates (petroleum), Hydrotreated Light Naphthenic (CAS 64742-53-6)</td>
<td>PEL 5 mg/m³</td>
<td>Mist.</td>
</tr>
<tr>
<td></td>
<td>2000 mg/m³ 500 ppm</td>
<td></td>
</tr>
<tr>
<td>Distillates (petroleum), solvent-dewaxed heavy paraffinic (CAS 64742-65-0)</td>
<td>PEL 5 mg/m³</td>
<td>Mist.</td>
</tr>
<tr>
<td></td>
<td>2000 mg/m³ 500 ppm</td>
<td></td>
</tr>
<tr>
<td>Molybdenum disulphide (CAS 1317-33-5)</td>
<td>PEL 15 mg/m³</td>
<td>Total dust.</td>
</tr>
<tr>
<td>Tris(dipentyldithiocarbamato-S,S')antimony (CAS 15890-25-2)</td>
<td>PEL 0.5 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

**US. ACGIH Threshold Limit Values**

<table>
<thead>
<tr>
<th>Components</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum hydroxide benzoate stearate (CAS 54326-11-3)</td>
<td>TWA 1 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td>Distillates (petroleum), Hydrotreated Light Naphthenic (CAS 64742-53-6)</td>
<td>TWA 5 mg/m³</td>
<td>Inhalable fraction.</td>
</tr>
<tr>
<td>Distillates (petroleum), solvent-dewaxed heavy paraffinic (CAS 64742-65-0)</td>
<td>TWA 5 mg/m³</td>
<td>Inhalable fraction.</td>
</tr>
<tr>
<td>Molybdenum disulphide (CAS 1317-33-5)</td>
<td>TWA 3 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td>Tris(dipentyldithiocarbamato-S,S')antimony (CAS 15890-25-2)</td>
<td>TWA 10 mg/m³</td>
<td>Inhalable fraction.</td>
</tr>
</tbody>
</table>

**US. NIOSH: Pocket Guide to Chemical Hazards**

<table>
<thead>
<tr>
<th>Components</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), Hydrotreated Light Naphthenic (CAS 64742-53-6)</td>
<td>Ceiling 1800 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Distillates (petroleum), solvent-dewaxed heavy paraffinic (CAS 64742-65-0)</td>
<td>STEL 10 mg/m³  Ceiling 1800 mg/m³</td>
<td>Mist.</td>
</tr>
<tr>
<td>Tris(dipentyldithiocarbamato-S,S')antimony (CAS 15890-25-2)</td>
<td>STEL 10 mg/m³</td>
<td>Mist.</td>
</tr>
<tr>
<td></td>
<td>TWA 5 mg/m³</td>
<td>Mist.</td>
</tr>
<tr>
<td></td>
<td>TWA 0.5 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

**Biological limit values**

No biological exposure limits noted for the ingredient(s).

**Exposure guidelines**

Occupational Exposure Limits are not relevant to the current physical form of the product.

**Appropriate engineering controls**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

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Material name: Ball & Roller Bearing Hi-Temp Industrial Grease

SL3630  Version #: 01  Issue date: 08-06-2015

SDS US  3 / 8
Individual protection measures, such as personal protective equipment

**Eye/face protection**
Wear safety glasses with side shields (or goggles).

**Skin protection**
Hand protection
Wear protective gloves such as: Rubber. Latex.

**Other**
Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

**Respiratory protection**
If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to determine actual employee exposure levels.

**Thermal hazards**
Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations**
Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

### 9. Physical and chemical properties

**Appearance**
- **Physical state:** Solid.
- **Form:** Grease.
- **Color:** Gray.

**Odor**
Mild petroleum.

**Odor threshold**
Not available.

**pH**
Not available.

**Melting point/freezing point**
Not available.

**Initial boiling point and boiling range**
680 °F (360 °C) estimated

**Flash point**
> 450 °F (> 232.2 °C) Cleveland Open Cup

**Evaporation rate**
Slow.

**Flammability (solid, gas)**
Not available.

**Upper/lower flammability or explosive limits**
- **Flammability limit - lower (%)**
  Not available.
- **Flammability limit - upper (%)**
  Not available.

**Vapor pressure**
Not available.

**Vapor density**
Not available.

**Relative density**
0.9

**Solubility (water)**
Insoluble.

**Partition coefficient (n-octanol/water)**
Not available.

**Auto-ignition temperature**
500 °F (260 °C) estimated

**Decomposition temperature**
Not available.

**Viscosity (kinematic)**
> 21.5 mm²/s (104 °F (40 °C))

**Percent volatile**
Not available.

### 10. Stability and reactivity

**Reactivity**
The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability**
Material is stable under normal conditions.

**Possibility of hazardous reactions**
No dangerous reaction known under conditions of normal use.

**Conditions to avoid**
Contact with incompatible materials.

**Incompatible materials**
Strong oxidizing agents.

**Hazardous decomposition products**
11. Toxicological information

Information on likely routes of exposure

**Inhalation**
Prolonged inhalation may be harmful.

**Skin contact**
May cause an allergic skin reaction.

**Eye contact**
Direct contact with eyes may cause temporary irritation.

**Ingestion**
Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

**Acute toxicity**
May cause an allergic skin reaction.

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ball &amp; Roller Bearing Hi-Temp Industrial Grease</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
<td>3403 mg/kg estimated</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Rat</td>
<td>65679 mg/m3, 4 hours estimated</td>
</tr>
<tr>
<td><strong>Oral</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>6857 mg/kg estimated</td>
</tr>
</tbody>
</table>

* Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation**
Prolonged skin contact may cause temporary irritation.

**Serious eye damage/eye irritation**
Direct contact with eyes may cause temporary irritation.

**Respiratory sensitization**
Not a respiratory sensitizer.

**Skin sensitization**
May cause an allergic skin reaction.

**Germ cell mutagenicity**
No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity**
This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

- **IARC Monographs. Overall Evaluation of Carcinogenicity**
  Not available.

- **US. National Toxicology Program (NTP) Report on Carcinogens**
  Not available.

**Reproductive toxicity**
This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure**
Not classified.

**Specific target organ toxicity - repeated exposure**
Not classified.

**Aspiration hazard**
Not an aspiration hazard.

12. Ecological information

**Ecotoxicity**
Toxic to aquatic life with long lasting effects.

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ball &amp; Roller Bearing Hi-Temp Industrial Grease</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Aquatic</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crustacea</td>
<td>EC50</td>
<td>Daphnia 2000 mg/l, 48 hours estimated</td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td>Fish 10000 mg/l, 96 hours estimated</td>
</tr>
<tr>
<td>Components</td>
<td>Species</td>
<td>Test Results</td>
</tr>
<tr>
<td>------------</td>
<td>---------</td>
<td>--------------</td>
</tr>
<tr>
<td>Tris(dipentyldithiocarbamato-S,S')antimony (CAS 15890-25-2)</td>
<td>Aquatic Chronic</td>
<td>NOEC Water flea (Daphnia magna) 0.02 mg/l, 21 days</td>
</tr>
</tbody>
</table>

* Estimates for product may be based on additional component data not shown.

Persistence and degradability: No data is available on the degradability of this product.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Other adverse effects: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal of waste from residues / unused products: This product is not a RCRA hazardous waste (See 40 CFR Part 261.20 – 261.33). Empty containers may be recycled. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose in accordance with all applicable regulations.

Hazardous waste code: Not regulated.

Contaminated packaging: Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT: Not regulated as dangerous goods.

IATA: Not regulated as dangerous goods.

IMDG: Not regulated as dangerous goods.

15. Regulatory information

US federal regulations: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.


SARA 304 Emergency release notification: Not regulated.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

- Tris(dipentyldithiocarbamato-S,S')antimony (CAS 15890-25-2)


CERCLA Hazardous Substances: Reportable quantity: Not listed.

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.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List: Tris(dipentyldithiocarbamato-S,S')antimony (CAS 15890-25-2)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Not regulated.


Food and Drug Administration (FDA): Not regulated.
Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance No

US state regulations

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))
- Tris(dipentyldithiocarbamato-S,S')antimony (CAS 15890-25-2)
- Distillates (petroleum), Hydrotreated Light Naphthenic (CAS 64742-53-6)
- Distillates (petroleum), solvent-dewaxed heavy paraffinic (CAS 64742-65-0)

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)
- Not listed.

US. New Jersey Worker and Community Right-to-Know Act
- Tris(dipentyldithiocarbamato-S,S')antimony (CAS 15890-25-2)
- Distillates (petroleum), Hydrotreated Light Naphthenic (CAS 64742-53-6)
- Distillates (petroleum), solvent-dewaxed heavy paraffinic (CAS 64742-65-0)

US. Massachusetts RTK - Substance List
- Distillates (petroleum), Hydrotreated Light Naphthenic (CAS 64742-53-6)
- Molybdenum disulphide (CAS 1317-33-5)

US. Pennsylvania Worker and Community Right-to-Know Law
- Not listed.

US. Rhode Island RTK
- Tris(dipentyldithiocarbamato-S,S')antimony (CAS 15890-25-2)

US. California Proposition 65
California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

Volatile organic compounds (VOC) regulations

EPA
- VOC content (40 CFR 51.100(s)) Not determined
- Consumer products (40 CFR 59, Subpt. C) Not regulated

State
- Consumer products Not regulated
  - VOC content (CA) 0.3 %
  - VOC content (OTC) 0.3 %

International Inventories

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>No</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>No</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>No</td>
</tr>
</tbody>
</table>
Country(s) or region | Inventory name | On inventory (yes/no) *
--- | --- | ---
United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes

* A “Yes” indicates that all components of this product comply with the inventory requirements administered by the governing country(s).
A “No” indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

| Issue date     | 08-06-2015 |
| Prepared by    | Allison Cho |
| Version #      | 01         |
| Further information | Not available. |
| HMIS® ratings  | Health: 1  |
|                | Flammability: 1 |
|                | Physical hazard: 0 |
|                | Personal protection: B |
| NFPA ratings   | Health: 1   |
|                | Flammability: 1 |
|                | Instability: 0 |

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