Safety Data Sheet

Cosmoline® DIRECT
World’s Best Rust Preventative

SECTION 1 Identification of the substance/mixture and of the company/undertaking

Product identification used on label
Product identifier
MIL-C-11796
MIL-SPEC COSMOLINE GREASE 11796

Details of the supplier of the safety data sheet
COSMOLINE DIRECT
30 ARDMORE
IRVINE, CA 92602
(866) 802-2906 www.CosmolineDirect.com

Emergency telephone number
Relevant identified uses of the substance or mixture and uses advised against
Chemtrec: (800) 255-3924
Corrosion Preventive Compound

SECTION 2 Hazards identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;
GHS Hazard Symbols

GHS Classification
Skin Sensitisation Category 1
Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 2
Hazardous to the aquatic environment - Acute Category 3
Hazardous to the aquatic environment - Chronic Category 3

Signal Word
Warning

Hazard Statements
May cause an allergic skin reaction
May cause damage to organs through prolonged or repeated exposure.
Harmful to aquatic life.
Harmful to aquatic life with long lasting effects.

Unclassified Hazards (HINOC): Precautionary Statements
Molten material can cause thermal burns. When heated, the vapors/fumes given off may cause respiratory tract irritation.

Prevention
Do not breathe dust/fume/gas/mist/vapours/spray.
Contaminated work clothing should not be allowed out of the workplace.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.

Response
IF ON SKIN: Wash with plenty of soap and water.
Get medical advice/attention if you feel unwell.
Specific treatment: None known
If skin irritation or rash occurs: Get medical advice/attention.
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Disposal
Wash contaminated clothing before reuse.
Dispose of contents/container in accordance with local/regional/national/international regulation for hazardous wastes.

SECTION 3 Composition/information on ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS #</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenyl-alpha-naphthylamine</td>
<td>90-30-2</td>
<td>0.5 - 1.5</td>
</tr>
</tbody>
</table>

Note: Specific chemical identities and/or exact percentages have been withheld as a trade secret.

SECTION 4 First aid measures

Inhalation
If symptoms are experienced remove source of contamination or move victim to fresh air and obtain medical advice.

Eyes
Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention and monitor the eye daily as advised by your physician.

Skin Contact
Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists. If burned by contact with hot material, molten material adhering to skin should be cooled as quickly as possible with water and see a physician for removal of adhering material and treatment of burn.

Ingestion
Do not induce vomiting. Seek medical attention immediately. Provide medical care provider with this SDS.

Most important symptoms/effects, acute and delayed
See Section 11

Indication of immediate medical attention and special treatment needed
Treat symptomatically.

SECTION 5 Firefighting measures

Suitable extinguishing media:
Use alcohol resistant foam, carbon dioxide, dry chemical, or water spray when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the fire.

Unsuitable extinguishing media:
No data available

Fire and/or Explosion Hazards
Material may be ignited only if preheated to temperatures above the high flash point, for example in a fire.

Fire Fighting Methods and Protection
Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Use appropriate methods for the surrounding fire.

Hazardous Combustion Products
Oxides of carbon, Oxides of nitrogen, Hydrocarbons, Sulfur oxides
# Safety Data Sheet

## SECTION 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures
Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section VIII of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including: the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

### Methods and materials for containment and cleaning up
Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section VIII at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

## SECTION 7 Handling and storage

### Precautions for safe handling
Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Avoid contact with molten material. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Wash thoroughly after handling. Do not get in eyes, on skin and clothing. When heated, the vapor/fumes given off may cause respiratory tract irritation.

### Conditions for safe storage, including any incompatibilities
Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Do not store in direct sunlight. Strong oxidizing agents, Strong acids

## SECTION 8 Exposure controls/personal protection

### Control parameters

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>ACGIH STEL</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>No exposure limits in vapor form</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Engineering Measures
Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.

### Respiratory Protection
Proper ventilation (at a minimum) will be required when handling this product. Use respirators (NIOSH approved) only if ventilation cannot be used to eliminate symptoms or reduce the exposure to below acceptable levels.

### Eye Protection
Wear chemical splash goggles when handling this product. Additionally, wear a face shield when the possibility of splashing of liquid exists. Do not wear contact lenses. Have an eye wash station available.
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Skin Protection
Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. When handling material that has been heated, wear chemically resistant thermally insulating gloves, chemical resistant apron, long sleeves and other clothing as necessary to protect against thermal burns.

Gloves
Heat insulating chemically resistant gloves

SECTION 9 Physical and chemical properties (Typical, not specification)

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Waxy Solid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Amber</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight Petroleum Type</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting Point/freezing point, °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range, °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>350 °F (177 °C)</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>&gt;1 (n-Butyl Acetate=1)</td>
</tr>
<tr>
<td>Flammability (Solid, Gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Lower Flammable/Explosive Limit, % in air</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper Flammable/Explosive Limit, % in air</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>&lt; 1 mmHg</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>&gt;1 (Air=1)</td>
</tr>
<tr>
<td>Specific Gravity @ 25°C</td>
<td>0.92</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Negligible; 0-1%</td>
</tr>
<tr>
<td>Octanol/Water Partition Coefficient</td>
<td>No data available</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>&gt; 1500 cSt @ 40°C</td>
</tr>
<tr>
<td>Volatiles, % by weight</td>
<td>0.05</td>
</tr>
<tr>
<td>VOC, Material, lb/gal</td>
<td>0</td>
</tr>
<tr>
<td>VOC, Material, grams/liter</td>
<td>0.0</td>
</tr>
<tr>
<td>VOC minus exempt solvents &amp; water, g/l</td>
<td>0</td>
</tr>
</tbody>
</table>

SECTION 10 Stability and reactivity

Reactivity
No data available

Chemical stability
Stable under normal conditions. Hazardous polymerization will not occur.

Possibility of hazardous reactions
Under normal conditions of storage and use, hazardous reactions will not occur.

Incompatible materials
Strong oxidizing agents, Strong acids

Hazardous decomposition products
Under normal conditions of use & storage, decomposition and hazardous decomposition products are unlikely.
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SECTION 11 Toxicological information

Likely Routes of Entry  Inhalation, Skin contact, Eye contact
Target Organs Potentially Affected by Exposure Liver, Kidneys
Chemical Interactions That Change Toxicity No chemical interaction known to affect toxicity.
Medical Conditions Aggravated Skin contact may aggravate existing skin disease

Immediate (Acute) Health Effects by Route of Exposure
Inhalation Irritation Can cause minor respiratory irritation.
Skin Contact May cause skin irritation. Allergic reactions are possible. May cause sensitization.
Skin Absorption No absorption hazard expected in normal industrial use.
Eye Contact Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.
Ingestion Irritation Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.
Ingestion Toxicity Harmful if swallowed.

Long-Term (Chronic) Health Effects
Carcinogenicity There are no carcinogenic ingredients present at or over 0.1%.
Inhalation Upon prolonged and/or repeated exposure, can cause respiratory irritation.
Skin Absorption Skin sensitization, characterized by redness, inflammation, itching and/or burning may result from prolonged or repeated contact with this material.
Ingestion Under normal industrial usage conditions, ingestion is highly unlikely.

Component Toxicology Data

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>LD50/LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenyl-alpha-naphthylamine</td>
<td>90-30-2</td>
<td>Oral LD50 Rat 1625 mg/kg</td>
</tr>
</tbody>
</table>

SECTION 12 Ecological information

Overview  No ecological information available
Mobility  No data
Persistence  No data
Bioaccumulation  No data
Degradability  No data

Ecotoxicity Data

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Aquatic EC50</th>
<th>Aquatic ER50</th>
<th>Aquatic LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenyl-alpha-naphthylamine</td>
<td>90-30-2</td>
<td>Crustacea LC50 (48 hr)</td>
<td>Algae 0.68 mg/L</td>
<td>Fish LC50 (96 hr)</td>
</tr>
</tbody>
</table>

SECTION 13 Disposal considerations

Waste Description for Spent Product  Spent or discarded material is non-hazardous according to environmental regulations.
Disposal Methods  Dispose of in accordance with Local and National regulations.
Waste Disposal Code(s)  Not applicable
SECTION 14 Transport information

Full shipping name for Export, Air, Sea (any quantity unless flash pt. >150°F) or vessels of 119 GL or more Domestic Ground in vessels < 119 gal.

Non-Hazardous (Paraffin Wax, Solid) Non-Hazardous

SECTION 15 Regulatory information

Status of formula components on selected national regulatory inventories:

<table>
<thead>
<tr>
<th>LIST</th>
<th>STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA</td>
<td>All components in this product are on the TSCA Inventory or exempt.</td>
</tr>
<tr>
<td>Canadian DSL</td>
<td>All chemical substances in this material are included on or exempted from listing on the Canadian DSL.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS #</th>
<th>Regulation</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>No CERCLA-listed chemicals in this product.</td>
<td></td>
<td>CERCLA</td>
<td></td>
</tr>
<tr>
<td>No 313-listed chemicals in this product.</td>
<td></td>
<td>SARA 313</td>
<td></td>
</tr>
<tr>
<td>No SARA 302 EHS-listed chemicals in this product.</td>
<td></td>
<td>SARA EHS</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 16 Other information

Revision Date 05-17-2017

Disclaimer

Although the information contained herein is believed to be reliable, it is furnished without warranty of any kind. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, and storage.

Version Reviewed