Section 1: Product & Company Identification

Product Name: Cutting Oil Thread Cutting Lubricant (Aerosol)

Product Number (s): 14050

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

www.crcindustries.com

Section 2: Hazards Identification

Emergency Overview

Appearance & Odor: Brown liquid, faint petroleum odor


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

Potential Health Effects:

EYE: Eye contact may result in slight irritation and redness.

SKIN: Short term contact with skin is unlikely to cause any problems. Excessive or repeated contact and poor hygiene conditions may result in dryness, dermatitis, erythema, oil acne, cracking and defatting of the skin.

INHALATION: Inhalation of vapors or mist may be irritating to the respiratory passages. Prolonged exposure may result in dizziness and nausea.

INGESTION: May result in nausea or stomach discomfort.

CHRONIC EFFECTS: None known

TARGET ORGANS: lungs (oil mist)

Medical Conditions Aggravated by Exposure:

Pre-existing skin disorders

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>Hydrotreated naphthenic oil</td>
<td>64742-52-5 / 64742-53-6</td>
<td>70 - 80</td>
</tr>
<tr>
<td>Additive blend</td>
<td>proprietary</td>
<td>2 - 6</td>
</tr>
<tr>
<td>Liquefied petroleum gas</td>
<td>68476-86-8</td>
<td>15 - 25</td>
</tr>
</tbody>
</table>

Section 4: First Aid Measures

Eye Contact: Immediately flush with plenty of water for 15 minutes. 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. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Call a physician.

Ingestion: If swallowed, observe for signs of stomach discomfort or nausea. If symptoms persist, seek medical help. Do not induce vomiting. If there is any suspicion of aspiration into lungs, obtain immediate medical attention.

Note to Physicians: Treat symptomatically.

Section 5: Fire-Fighting Measures

Flammable Properties: This product is flammable in accordance with aerosol flammability definitions (16 CFR 1500.3(c)(6)).

Flash Point: > 300 F (COC) Upper Explosive Limit: ND
Autoignition Temperature: > 600 F Lower Explosive Limit: ND

Suitable Extinguishing Media: Halon, dry chemical, foam, CO2, water mist or fog, or any Class B extinguishing agent.

Products of Combustion: Fumes, smoke, carbon monoxide.

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. Eliminate sources of ignition. Ventilate the area with fresh air. If in confined space or limited air circulation area, clean-up workers should wear appropriate respiratory protection. Recover or absorb spilled material using an absorbent designed for chemical spills. Place used absorbents into proper waste containers.

Section 7: Handling and Storage

Handling Procedures: Keep away from flames, sparks or hot surfaces. Wash thoroughly after handling and before handling food. Do not touch container to electrical sources as container will conduct electricity.

Storage Procedures: Store in a cool dry area out of direct sunlight. Aerosol cans must be maintained below 120 F to prevent cans from rupturing.

Aerosol Storage Level: III

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>OSHA</th>
<th>ACGIH</th>
<th>OTHER</th>
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</thead>
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<tr>
<td></td>
<td>TWA</td>
<td>STEL</td>
<td>TWA</td>
</tr>
<tr>
<td>Hydrotreated naphthenic oil</td>
<td>5*</td>
<td>NE</td>
<td>5*</td>
</tr>
<tr>
<td>Additive blend</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
</tr>
<tr>
<td>Liquefied petroleum gas</td>
<td>1000</td>
<td>NE</td>
<td>1000</td>
</tr>
<tr>
<td>N.E. – Not Established</td>
<td>(c)</td>
<td>(s)</td>
<td>(v)</td>
</tr>
</tbody>
</table>

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 an 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 neoprene. Also, use full protective clothing if there is prolonged or repeated contact of liquid with skin.

Section 9: Physical and Chemical Properties
Product Name: Cutting Oil Thread Cutting Lubricant (Aerosol)
Product Number(s): 14050

Physical State: liquid
Color: brown
Odor: faint petroleum
Specific Gravity: 0.924
Initial Boiling Point: > 500 F
Freezing Point: ND
Vapor Pressure: ND
Vapor Density: > 5 (air = 1)
Evaporation Rate: < 1 (ether = 1)
Solubility: negligible
pH: NA
Volatile Organic Compounds: wt %: 20.0
                           g/L: 184.8
                           lbs./gal: 1.54

Section 10: Stability and Reactivity

Stability: Stable
Conditions to Avoid: Sources of ignition
Incompatible Materials: Strong oxidizers, halogens
Hazardous Decomposition Products: Oxides of carbon, sodium, or sulfur. Aldehydes.
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>
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</thead>
<tbody>
<tr>
<td>Hydrotreated naphthenic</td>
<td>LD50</td>
<td>&gt; 5000 mg/kg</td>
<td>Oral</td>
<td>Rat</td>
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<tr>
<td>oil</td>
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<td></td>
</tr>
<tr>
<td>Hydrotreated naphthenic</td>
<td>LD50</td>
<td>&gt; 2000 mg/kg</td>
<td>Dermal</td>
<td>Rabbit</td>
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<tr>
<td>oil</td>
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<tr>
<td>Hydrotreated naphthenic</td>
<td>LC50</td>
<td>2.18 mg/L/4H</td>
<td>Inhalation</td>
<td>Rat</td>
</tr>
<tr>
<td>oil</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

CHRONIC EFFECTS

Carcinogenicity:
OSHA: None listed
IARC: None listed
NTP: None listed

Mutagenicity: Hydrotreated naphthenic oil Mutagenic index of less than 1.0

Other: IARC has determined in reviewing cancer prevalence of exposed workers that the carcinogenic activity of refined oils is related to the severity of processing of the base oil. The base oils contained in this product have been highly refined to remove aromatics, thus reducing carcinogenic potential.
IP346: DMSO < 3.0%
Section 12: Ecological Information

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

Ecotoxicity: hydrotreated naphthenic oil – 96 Hr LC50, Fathead minnow: >30,000 mg/L (static)
Persistence / Degradability: This product is not readily biodegradable.
Bioaccumulation / Accumulation: No information available
Mobility in Environment: No information available

Section 13: Disposal Considerations

Disposal: The dispensed liquid product is not a RCRA hazardous waste. (See 40 CFR Part 261.20 – 261.33) Aerosol containers should be emptied and depressurized before disposal. 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): Consumer Commodity, ORM-D

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: None

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: Fire Hazard: No
                                                   Reactive Hazard: No
                                                   Release of Pressure: Yes
                                                   Acute Health Hazard: No
                                                   Chronic Health Hazard: No
**Product Name:** Cutting Oil Thread Cutting Lubricant (Aerosol)
**Product Number(s):** 14050

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**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:

None

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**Clean Air Act:**

Section 112 Hazardous Air Pollutants (HAPs): None

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**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

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**State Right to Know:**

New Jersey: None
Pennsylvania: None
Massachusetts: None
Rhode Island: None

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**Additional Regulatory Information:** None

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**Section 16: Other Information**

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
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<tbody>
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<td>0</td>
</tr>
</tbody>
</table>

HMIS: Health | Flammability | Reactivity | PPE |
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<tbody>
<tr>
<td>Health</td>
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</table>

Prepared By: Michelle Rudnick
CRC #: 574
Revision Date: 10/23/2007

Changes since last revision: MSDS reformatted in accordance with ANSI Z400.1-2004

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.

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**CAS:** Chemical Abstract Service
ppm: Parts per Million
TCC: Tag Closed Cup
PMCC: Pensky-Martens Closed Cup
PPE: Personal Protection Equipment
TWA: Time Weighted Average
OSHA: Occupational Safety and Health Administration
ACGIH: American Conference of Governmental Industrial Hygienists
NIOSH: National Institute of Occupational Safety & Health

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NA: Not Applicable
ND: Not Determined
NE: Not Established
g/L: grams per Liter
lbs./gal: pounds per gallon
STEL: Short Term Exposure Limit