



# SAFETY DATA SHEET

## 1. Identification

|   |   |
|---|---|
| <b>Product identifier</b>                                     | <b>Thread Lubricant</b>                           |
| <b>Other means of identification</b>                          |   |
| <b>Product code</b>   | SL35924, SL35925                                  |
| <b>Recommended use</b>  | General purpose thread lubricant                  |
| <b>Recommended restrictions</b>                               | None known.                                       |
| <b>Manufacturer/Importer/Supplier/Distributor information</b> |   |
| <b>Manufactured or sold by:</b>                               |   |
| <b>Company name</b>   | CRC Industries, Inc.                              |
| <b>Address</b>  | 885 Louis Dr.<br>Warminster, PA 18974 US          |
| <b>Telephone</b>  |   |
| <b>General Information</b>                                    | 215-674-4300                                      |
| <b>Technical Assistance</b>                                   | 800-521-3168                                      |
| <b>Customer Service</b>                                       | 800-272-4620                                      |
| <b>24-Hour Emergency (CHEMTREC)</b>                           | 800-424-9300 (US)<br>703-527-3887 (International) |
| <b>Website</b>  | www.crcindustries.com                             |

## 2. Hazard(s) identification

|  |   |
|--|---|
| <b>Physical hazards</b>                          | Not classified.   |
| <b>Health hazards</b>                            | Not classified.   |
| <b>Environmental hazards</b>                     | Not classified.   |
| <b>OSHA defined hazards</b>                      | Not classified.   |
| <b>Label elements</b>                            |   |
| <b>Hazard symbol</b>                             | None.   |
| <b>Signal word</b>                               | Not available.  |
| <b>Hazard statement</b>                          | The mixture does not meet the criteria for classification.                            |
| <b>Precautionary statement</b>                   |   |
| <b>Prevention</b>                                | Observe good industrial hygiene practices.  |
| <b>Response</b>                                  | Wash hands after handling.  |
| <b>Storage</b>                                   | Store away from incompatible materials.   |
| <b>Disposal</b>                                  | Dispose of contents/container in accordance with local/regional/national regulations. |
| <b>Hazard(s) not otherwise classified (HNOC)</b> | None known.   |

## 3. Composition/information on ingredients

### Mixtures

| <b>Chemical name</b>                                   | <b>Common name and synonyms</b> | <b>CAS number</b> | <b>%</b> |
|--|---------------------------------|-------------------|----------|
| Distillates (petroleum), hydrotreated heavy naphthenic |                                 | 64742-52-5        | 90 - 100 |

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

## 4. First-aid measures

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist. |
| <b>Skin contact</b> | Wash off with plenty of water. Get medical attention if irritation develops and persists.   |

|   |   |
|---|---|
| <b>Eye contact</b>  | Immediately flush eyes with plenty of water for at least 15 minutes. Continue rinsing. Get medical attention if irritation develops and persists. |
| <b>Ingestion</b>  | Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.   |
| <b>Most important symptoms/effects, acute and delayed</b>                     | None known.   |
| <b>Indication of immediate medical attention and special treatment needed</b> | Treat symptomatically.  |
| <b>General information</b>  | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.                                  |

## 5. Fire-fighting measures

|  |  |
|--|--|
| <b>Suitable extinguishing media</b>                                  | Use fire-extinguishing media appropriate for surrounding materials.  |
| <b>Unsuitable extinguishing media</b>                                | None known.  |
| <b>Specific hazards arising from the chemical</b>                    | During fire, gases hazardous to health may be formed.  |
| <b>Special protective equipment and precautions for firefighters</b> | Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. |
| <b>Fire-fighting equipment/instructions</b>                          | Move containers from fire area if you can do so without risk.  |
| <b>General fire hazards</b>  | No unusual fire or explosion hazards noted.  |

## 6. Accidental release measures

|  |   |
|--|---|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.  |
| <b>Methods and materials for containment and cleaning up</b>               | The product is immiscible with water and will spread on the water surface. Stop the flow of material, if this is without risk. Sweep up or vacuum up spillage and collect in suitable container for disposal. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS. Prevent entry into waterways, sewer, basements or confined areas. |
| <b>Environmental precautions</b>   | Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.  |

## 7. Handling and storage

|   |   |
|---|---|
| <b>Precautions for safe handling</b>                                | Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices. Use care in handling/storage. For product usage instructions, please see the product label. |
| <b>Conditions for safe storage, including any incompatibilities</b> | Keep container tightly closed. Store away from incompatible materials (see Section 10 of the SDS). Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place.   |

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components  | Type | Value                             | Form  |
|---|------|-----------------------------------|-------|
| Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5) | PEL  | 5 mg/m <sup>3</sup>               | Mist. |
|   |      | 2000 mg/m <sup>3</sup><br>500 ppm |       |

#### US. ACGIH Threshold Limit Values

| Components  | Type | Value               | Form                |
|---|------|---------------------|---------------------|
| Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5) | TWA  | 5 mg/m <sup>3</sup> | Inhalable fraction. |

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

| Components   | Type  | Value                  | Form  |
|--|---|------------------------|-------|
| Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)      | Ceiling   | 1800 mg/m <sup>3</sup> |       |
|  | STEL  | 10 mg/m <sup>3</sup>   | Mist. |
|  | TWA   | 5 mg/m <sup>3</sup>    | Mist. |
| <b>Biological limit values</b>   | No biological exposure limits noted for the ingredient(s).  |                        |       |
| <b>Exposure guidelines</b>   | Occupational Exposure Limits are not relevant to the current physical form of the product.  |                        |       |
| <b>Appropriate engineering controls</b>                                      | 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. |                        |       |
| <b>Individual protection measures, such as personal protective equipment</b> |   |                        |       |
| <b>Eye/face protection</b>   | Wear safety glasses with side shields (or goggles).   |                        |       |
| <b>Skin protection</b>   |   |                        |       |
| <b>Hand protection</b>   | Wear protective gloves such as: Neoprene. Nitrile.  |                        |       |
| <b>Other</b>   | Wear suitable protective clothing.  |                        |       |
| <b>Respiratory protection</b>  | 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.  |                        |       |
| <b>Thermal hazards</b>   | Wear appropriate thermal protective clothing, when necessary.   |                        |       |
| <b>General hygiene considerations</b>  | 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.   |                        |       |

**9. Physical and chemical properties****Appearance**

|   |                                      |
|---|--------------------------------------|
| <b>Physical state</b>                               | Solid.                               |
| <b>Form</b>   | Grease.                              |
| <b>Color</b>  | Amber.                               |
| <b>Odor</b>   | Mild petroleum.                      |
| <b>Odor threshold</b>                               | Not available.                       |
| <b>pH</b>   | Not available.                       |
| <b>Melting point/freezing point</b>                 | Not available.                       |
| <b>Initial boiling point and boiling range</b>      | 680 °F (360 °C) estimated            |
| <b>Flash point</b>                                  | 334 °F (167.8 °C) Cleveland Open Cup |
| <b>Evaporation rate</b>                             | Very slow.                           |
| <b>Flammability (solid, gas)</b>                    | Not available.                       |
| <b>Upper/lower flammability or explosive limits</b> |                                      |
| <b>Flammability limit - lower (%)</b>               | Not available.                       |
| <b>Flammability limit - upper (%)</b>               | Not available.                       |
| <b>Vapor pressure</b>                               | 0.00001 hPa estimated                |
| <b>Vapor density</b>                                | > 5 (air = 1)                        |
| <b>Relative density</b>                             | 0.9                                  |
| <b>Solubility (water)</b>                           | Insoluble.                           |
| <b>Partition coefficient (n-octanol/water)</b>      | Not available.                       |
| <b>Auto-ignition temperature</b>                    | 500 °F (260 °C) estimated            |
| <b>Decomposition temperature</b>                    | Not available.                       |

Material name: Thread Lubricant

SL35924, SL35925 Version #: 01 Issue date: 01-14-2015

SDS US

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|                       |                |
|-----------------------|----------------|
| Viscosity (kinematic) | Not available. |
| Percent volatile      | > 87 %         |

## 10. Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.   |
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.                                   |
| <b>Conditions to avoid</b>                | Contact with incompatible materials.  |
| <b>Incompatible materials</b>             | Strong oxidizing agents.  |
| <b>Hazardous decomposition products</b>   | No hazardous decomposition products are known.  |

## 11. Toxicological information

### Information on likely routes of exposure

|   |   |
|---|---|
| <b>Ingestion</b>  | Expected to be a low ingestion hazard.                                    |
| <b>Inhalation</b>   | Health injuries are not known or expected under normal use.               |
| <b>Skin contact</b>   | Prolonged skin contact may cause temporary irritation.                    |
| <b>Eye contact</b>  | Direct contact with eyes may cause temporary irritation.                  |
| <b>Symptoms related to the physical, chemical and toxicological characteristics</b> | Prolonged or excessive inhalation may cause respiratory tract irritation. |

### Information on toxicological effects

**Acute toxicity** Not available.

| Product          | Species | Test Results              |
|------------------|---------|---------------------------|
| Thread Lubricant |         |                           |
| <b>Acute</b>     |         |                           |
| <i>Dermal</i>    |         |                           |
| LD50             | Rabbit  | 2150.5376 mg/kg estimated |
| <i>Oral</i>      |         |                           |
| LD50             | Rat     | 5376.3442 mg/kg estimated |

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

|   |  |
|---|--|
| <b>Skin corrosion/irritation</b>                          | Prolonged skin contact may cause temporary irritation.   |
| <b>Serious eye damage/eye irritation</b>                  | Direct contact with eyes may cause temporary irritation.   |
| <b>Respiratory sensitization</b>                          | Not available.   |
| <b>Skin sensitization</b>                                 | This product is not expected to cause skin sensitization.  |
| <b>Germ cell mutagenicity</b>                             | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
| <b>Carcinogenicity</b>                                    | This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.                                  |
| <b>Reproductive toxicity</b>                              | This product is not expected to cause reproductive or developmental effects.                                     |
| <b>Specific target organ toxicity - single exposure</b>   | Not classified.  |
| <b>Specific target organ toxicity - repeated exposure</b> | Not classified.  |
| <b>Aspiration hazard</b>                                  | Not likely, due to the form of the product.  |
| <b>Further information</b>                                | This product has no known adverse effect on human health.  |

## 12. Ecological information

|                    |  |
|--------------------|--|
| <b>Ecotoxicity</b> | The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. |
|--------------------|--|

| Product   | Species        |   | Test Results                       |
|---|----------------|---|------------------------------------|
| Thread Lubricant  |                |   |                                    |
| <b>Aquatic</b>  |                |   |                                    |
| Crustacea   | EC50           | Daphnia   | 1075.2688 mg/l, 48 hours estimated |
| Fish  | LC50           | Fish  | 5376.3442 mg/l, 96 hours estimated |
| <b>Components</b>   | <b>Species</b> |   | <b>Test Results</b>                |
| Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5) |                |   |                                    |
| <b>Aquatic</b>  |                |   |                                    |
| Crustacea   | EC50           | Water flea (Daphnia magna)                          | 1000 mg/l, 48 hours                |
| Fish  | LC50           | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 5000 mg/l, 96 hours                |

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

|                                      |   |
|--------------------------------------|---|
| <b>Persistence and degradability</b> | Not readily biodegradable.  |
| <b>Bioaccumulative potential</b>     | No data available.  |
| <b>Mobility in soil</b>              | No data available.  |
| <b>Other adverse effects</b>         | 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

|  |   |
|--|---|
| <b>Disposal of waste from residues / unused products</b> | 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. Dispose in accordance with all applicable regulations. |
| <b>Hazardous waste code</b>                              | Not regulated.  |
| <b>Contaminated packaging</b>                            | Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.  |

### 14. Transport information

|             |                                   |
|-------------|-----------------------------------|
| <b>DOT</b>  | Not regulated as dangerous goods. |
| <b>IATA</b> | Not regulated as dangerous goods. |
| <b>IMDG</b> | Not regulated as dangerous goods. |

### 15. Regulatory information

|   |  |
|---|--|
| <b>US federal regulations</b>   | This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.<br>All components are on the U.S. EPA TSCA Inventory List.                                  |
| <b>TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)</b>            | Not regulated.   |
| <b>SARA 304 Emergency release notification</b>                                  | Not regulated.   |
| <b>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>       | Not listed.  |
| <b>US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance</b> | Not listed.  |
| <b>CERCLA Hazardous Substance List (40 CFR 302.4)</b>                           | Not listed.  |
| <b>CERCLA Hazardous Substances: Reportable quantity</b>                         | Not listed.<br>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. |
| <b>Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List</b>     | Not regulated.   |

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.**Food and Drug Administration (FDA)** Not regulated.**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Section 311/312 Hazard categories** Immediate Hazard - No  
 Delayed Hazard - No  
 Fire Hazard - No  
 Pressure Hazard - No  
 Reactivity Hazard - No

**SARA 302 Extremely hazardous substance** No**US state regulations****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**

Not listed.

**US. Massachusetts RTK - Substance List**

None.

**US. Pennsylvania Worker and Community Right-to-Know Law**

Not listed.

**US. Rhode Island RTK**

None.

**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))** 100 %**Consumer products (40 CFR 59, Subpt. C)** Not regulated**State****Consumer products** Not regulated**VOC content (CA)** < 0.1 %**VOC content (OTC)** < 0.1 %**International Inventories**

| <b>Country(s) or region</b> | <b>Inventory name</b>  | <b>On inventory (yes/no)*</b> |
|-----------------------------|--|-------------------------------|
| Australia                   | Australian Inventory of Chemical Substances (AICS)                     | Yes                           |
| Canada                      | Domestic Substances List (DSL)   | Yes                           |
| Canada                      | Non-Domestic Substances List (NDSL)                                    | No                            |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                           |
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes                           |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                 | No                            |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)               | Yes                           |
| Korea                       | Existing Chemicals List (ECL)  | Yes                           |
| New Zealand                 | New Zealand Inventory  | Yes                           |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes                           |
| 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

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**Issue date** 01-14-2015  
**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

**NFPA ratings**



**Disclaimer**

CRC cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. 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. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety professional, or CRC Industries.



# SAFETY DATA SHEET

## 1. Identification

|   |   |
|---|---|
| <b>Product identifier</b>                                     | <b>Thread Lubricant</b>                           |
| <b>Other means of identification</b>                          |   |
| <b>Product code</b>   | SL35924, SL35925                                  |
| <b>Recommended use</b>  | General purpose thread lubricant                  |
| <b>Recommended restrictions</b>                               | None known.                                       |
| <b>Manufacturer/Importer/Supplier/Distributor information</b> |   |
| <b>Manufactured or sold by:</b>                               |   |
| <b>Company name</b>   | CRC Industries, Inc.                              |
| <b>Address</b>  | 885 Louis Dr.<br>Warminster, PA 18974 US          |
| <b>Telephone</b>  |   |
| <b>General Information</b>                                    | 215-674-4300                                      |
| <b>Technical Assistance</b>                                   | 800-521-3168                                      |
| <b>Customer Service</b>                                       | 800-272-4620                                      |
| <b>24-Hour Emergency (CHEMTREC)</b>                           | 800-424-9300 (US)<br>703-527-3887 (International) |
| <b>Website</b>  | www.crcindustries.com                             |

## 2. Hazard(s) identification

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| <b>Physical hazards</b>                          | Not classified.   |
| <b>Health hazards</b>                            | Not classified.   |
| <b>Environmental hazards</b>                     | Not classified.   |
| <b>OSHA defined hazards</b>                      | Not classified.   |
| <b>Label elements</b>                            |   |
| <b>Hazard symbol</b>                             | None.   |
| <b>Signal word</b>                               | Not available.  |
| <b>Hazard statement</b>                          | The mixture does not meet the criteria for classification.                            |
| <b>Precautionary statement</b>                   |   |
| <b>Prevention</b>                                | Observe good industrial hygiene practices.  |
| <b>Response</b>                                  | Wash hands after handling.  |
| <b>Storage</b>                                   | Store away from incompatible materials.   |
| <b>Disposal</b>                                  | Dispose of contents/container in accordance with local/regional/national regulations. |
| <b>Hazard(s) not otherwise classified (HNOC)</b> | None known.   |

## 3. Composition/information on ingredients

### Mixtures

| <b>Chemical name</b>                                   | <b>Common name and synonyms</b> | <b>CAS number</b> | <b>%</b> |
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| <b>Inhalation</b>   | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist. |
| <b>Skin contact</b> | Wash off with plenty of water. Get medical attention if irritation develops and persists.   |



|   |   |
|---|---|
| <b>Eye contact</b>  | Immediately flush eyes with plenty of water for at least 15 minutes. Continue rinsing. Get medical attention if irritation develops and persists. |
| <b>Ingestion</b>  | Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.   |
| <b>Most important symptoms/effects, acute and delayed</b>                     | None known.   |
| <b>Indication of immediate medical attention and special treatment needed</b> | Treat symptomatically.  |
| <b>General information</b>  | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.                                  |

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|--|--|
| <b>Suitable extinguishing media</b>                                  | Use fire-extinguishing media appropriate for surrounding materials.  |
| <b>Unsuitable extinguishing media</b>                                | None known.  |
| <b>Specific hazards arising from the chemical</b>                    | During fire, gases hazardous to health may be formed.  |
| <b>Special protective equipment and precautions for firefighters</b> | Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. |
| <b>Fire-fighting equipment/instructions</b>                          | Move containers from fire area if you can do so without risk.  |
| <b>General fire hazards</b>  | No unusual fire or explosion hazards noted.  |

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## 8. Exposure controls/personal protection

### Occupational exposure limits

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|  | TWA   | 5 mg/m <sup>3</sup>    | Mist. |
| <b>Biological limit values</b>   | No biological exposure limits noted for the ingredient(s).  |                        |       |
| <b>Exposure guidelines</b>   | Occupational Exposure Limits are not relevant to the current physical form of the product.  |                        |       |
| <b>Appropriate engineering controls</b>                                      | 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. |                        |       |
| <b>Individual protection measures, such as personal protective equipment</b> |   |                        |       |
| <b>Eye/face protection</b>   | Wear safety glasses with side shields (or goggles).   |                        |       |
| <b>Skin protection</b>   |   |                        |       |
| <b>Hand protection</b>   | Wear protective gloves such as: Neoprene. Nitrile.  |                        |       |
| <b>Other</b>   | Wear suitable protective clothing.  |                        |       |
| <b>Respiratory protection</b>  | 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.  |                        |       |
| <b>Thermal hazards</b>   | Wear appropriate thermal protective clothing, when necessary.   |                        |       |
| <b>General hygiene considerations</b>  | 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.   |                        |       |

**9. Physical and chemical properties****Appearance**

|   |                                      |
|---|--------------------------------------|
| <b>Physical state</b>                               | Solid.                               |
| <b>Form</b>   | Grease.                              |
| <b>Color</b>  | Amber.                               |
| <b>Odor</b>   | Mild petroleum.                      |
| <b>Odor threshold</b>                               | Not available.                       |
| <b>pH</b>   | Not available.                       |
| <b>Melting point/freezing point</b>                 | Not available.                       |
| <b>Initial boiling point and boiling range</b>      | 680 °F (360 °C) estimated            |
| <b>Flash point</b>                                  | 334 °F (167.8 °C) Cleveland Open Cup |
| <b>Evaporation rate</b>                             | Very slow.                           |
| <b>Flammability (solid, gas)</b>                    | Not available.                       |
| <b>Upper/lower flammability or explosive limits</b> |                                      |
| <b>Flammability limit - lower (%)</b>               | Not available.                       |
| <b>Flammability limit - upper (%)</b>               | Not available.                       |
| <b>Vapor pressure</b>                               | 0.00001 hPa estimated                |
| <b>Vapor density</b>                                | > 5 (air = 1)                        |
| <b>Relative density</b>                             | 0.9                                  |
| <b>Solubility (water)</b>                           | Insoluble.                           |
| <b>Partition coefficient (n-octanol/water)</b>      | Not available.                       |
| <b>Auto-ignition temperature</b>                    | 500 °F (260 °C) estimated            |
| <b>Decomposition temperature</b>                    | Not available.                       |

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|                       |                |
|-----------------------|----------------|
| Viscosity (kinematic) | Not available. |
| Percent volatile      | > 87 %         |

## 10. Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.   |
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.                                   |
| <b>Conditions to avoid</b>                | Contact with incompatible materials.  |
| <b>Incompatible materials</b>             | Strong oxidizing agents.  |
| <b>Hazardous decomposition products</b>   | No hazardous decomposition products are known.  |

## 11. Toxicological information

### Information on likely routes of exposure

|   |   |
|---|---|
| <b>Ingestion</b>  | Expected to be a low ingestion hazard.                                    |
| <b>Inhalation</b>   | Health injuries are not known or expected under normal use.               |
| <b>Skin contact</b>   | Prolonged skin contact may cause temporary irritation.                    |
| <b>Eye contact</b>  | Direct contact with eyes may cause temporary irritation.                  |
| <b>Symptoms related to the physical, chemical and toxicological characteristics</b> | Prolonged or excessive inhalation may cause respiratory tract irritation. |

### Information on toxicological effects

**Acute toxicity** Not available.

| Product          | Species | Test Results              |
|------------------|---------|---------------------------|
| Thread Lubricant |         |                           |
| <b>Acute</b>     |         |                           |
| <i>Dermal</i>    |         |                           |
| LD50             | Rabbit  | 2150.5376 mg/kg estimated |
| <i>Oral</i>      |         |                           |
| LD50             | Rat     | 5376.3442 mg/kg estimated |

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

|   |  |
|---|--|
| <b>Skin corrosion/irritation</b>                          | Prolonged skin contact may cause temporary irritation.   |
| <b>Serious eye damage/eye irritation</b>                  | Direct contact with eyes may cause temporary irritation.   |
| <b>Respiratory sensitization</b>                          | Not available.   |
| <b>Skin sensitization</b>                                 | This product is not expected to cause skin sensitization.  |
| <b>Germ cell mutagenicity</b>                             | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
| <b>Carcinogenicity</b>                                    | This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.                                  |
| <b>Reproductive toxicity</b>                              | This product is not expected to cause reproductive or developmental effects.                                     |
| <b>Specific target organ toxicity - single exposure</b>   | Not classified.  |
| <b>Specific target organ toxicity - repeated exposure</b> | Not classified.  |
| <b>Aspiration hazard</b>                                  | Not likely, due to the form of the product.  |
| <b>Further information</b>                                | This product has no known adverse effect on human health.  |

## 12. Ecological information

|                    |  |
|--------------------|--|
| <b>Ecotoxicity</b> | The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. |
|--------------------|--|

| Product   | Species        |   | Test Results                       |
|---|----------------|---|------------------------------------|
| Thread Lubricant  |                |   |                                    |
| <b>Aquatic</b>  |                |   |                                    |
| Crustacea   | EC50           | Daphnia   | 1075.2688 mg/l, 48 hours estimated |
| Fish  | LC50           | Fish  | 5376.3442 mg/l, 96 hours estimated |
| <b>Components</b>   | <b>Species</b> |   | <b>Test Results</b>                |
| Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5) |                |   |                                    |
| <b>Aquatic</b>  |                |   |                                    |
| Crustacea   | EC50           | Water flea (Daphnia magna)                          | 1000 mg/l, 48 hours                |
| Fish  | LC50           | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 5000 mg/l, 96 hours                |

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

|                                      |   |
|--------------------------------------|---|
| <b>Persistence and degradability</b> | Not readily biodegradable.  |
| <b>Bioaccumulative potential</b>     | No data available.  |
| <b>Mobility in soil</b>              | No data available.  |
| <b>Other adverse effects</b>         | 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

|  |   |
|--|---|
| <b>Disposal of waste from residues / unused products</b> | 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. Dispose in accordance with all applicable regulations. |
| <b>Hazardous waste code</b>                              | Not regulated.  |
| <b>Contaminated packaging</b>                            | Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.  |

### 14. Transport information

|             |                                   |
|-------------|-----------------------------------|
| <b>DOT</b>  | Not regulated as dangerous goods. |
| <b>IATA</b> | Not regulated as dangerous goods. |
| <b>IMDG</b> | Not regulated as dangerous goods. |

### 15. Regulatory information

|   |  |
|---|--|
| <b>US federal regulations</b>   | This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.<br>All components are on the U.S. EPA TSCA Inventory List.                                  |
| <b>TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)</b>            | Not regulated.   |
| <b>SARA 304 Emergency release notification</b>                                  | Not regulated.   |
| <b>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>       | Not listed.  |
| <b>US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance</b> | Not listed.  |
| <b>CERCLA Hazardous Substance List (40 CFR 302.4)</b>                           | Not listed.  |
| <b>CERCLA Hazardous Substances: Reportable quantity</b>                         | Not listed.<br>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. |
| <b>Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List</b>     | Not regulated.   |

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.**Food and Drug Administration (FDA)** Not regulated.**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Section 311/312 Hazard categories** Immediate Hazard - No  
 Delayed Hazard - No  
 Fire Hazard - No  
 Pressure Hazard - No  
 Reactivity Hazard - No

**SARA 302 Extremely hazardous substance** No**US state regulations****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**

Not listed.

**US. Massachusetts RTK - Substance List**

None.

**US. Pennsylvania Worker and Community Right-to-Know Law**

Not listed.

**US. Rhode Island RTK**

None.

**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))** 100 %**Consumer products (40 CFR 59, Subpt. C)** Not regulated**State****Consumer products** Not regulated**VOC content (CA)** < 0.1 %**VOC content (OTC)** < 0.1 %**International Inventories**

| <b>Country(s) or region</b> | <b>Inventory name</b>  | <b>On inventory (yes/no)*</b> |
|-----------------------------|--|-------------------------------|
| Australia                   | Australian Inventory of Chemical Substances (AICS)                     | Yes                           |
| Canada                      | Domestic Substances List (DSL)   | Yes                           |
| Canada                      | Non-Domestic Substances List (NDSL)                                    | No                            |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                           |
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes                           |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                 | No                            |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)               | Yes                           |
| Korea                       | Existing Chemicals List (ECL)  | Yes                           |
| New Zealand                 | New Zealand Inventory  | Yes                           |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes                           |
| 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

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**Issue date** 01-14-2015  
**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

**NFPA ratings**



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