

MATERIAL SAFETY DATA SHEET (MSDS): STL THREAD LUBRICANT

1. PRODUCT IDENTIFICATION

COMMON NAME:	STL Thread Lubricant
CHEMICAL NAME:	Mixture
PRODUCT DESCRIPTION:	Thread lubricant
FORMULA:	Not defined
CAS #:	Mixture
DISTRIBUTOR	Cooper Industries/Crouse-Hinds LLC
ADDRESS:	P.O. Box 4999
CITY, STATE, ZIP CODE:	Syracuse, NY 13221-4999
INFORMATION TELEPHONE:	(315) 477-7000
	EMERGENCY TELEPHONE: CHEMTREC (800) 424-9300

2. HAZARDOUS INGREDIENTS - COMPOSITION/INFORMATION

COMPOUND	PERCENTAGE RANGE	OSHA-PEL	ACGIH-TLV
Petroleum oil CAS No.: 64742-62-7; 64742-65-0 RTECS: Mixture	Greater than 60%	5 mg/m ³ (as oil mist)	5 mg/m ³ * (as oil mist) 10 mg/m ³ (STEL) (as oil mist) 0.2 mg/m ³ (as mineral oil) (2005 Notice of Intended Change)
Lithium hydroxy stearate (as lithium stearate) CAS No.: 4485-12-5 RTECS: W14370000	7%	Not established	Not established

* As sampled by a method that does not collect vapor.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

May cause minor eye, skin, and respiratory irritation and possibly dermatitis.

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3. HAZARDS IDENTIFICATION (CONTINUED)

POTENTIAL HEALTH EFFECTS

EYE: May cause minor irritation.

SKIN: May cause minor irritation. Repeated or prolonged exposure may cause rash (dermatitis).

INGESTION: Relatively non-toxic. Ingestion may result in a laxative effect. Ingestion of substantial quantities may cause lithium toxicity.

INHALATION: Due to relatively low volatility, inhalation exposure is not anticipated under normal conditions and use. Inhalation of vapors or fumes produced at elevated temperatures or mists may cause irritation of the nose and throat, and possibly chemical pneumonitis.

CHRONIC: Prolonged or repeated contact may cause dermatitis or chemical pneumonitis in some individuals.

CARCINOGENICITY: No. NTP: No OSHA: No IARC: No
This product contains a petroleum-based grease. ACGIH has proposed lowering the TLV for mineral oil mists to 0.2 mg/m³ and a "suspect carcinogen" designation.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Inhalation may aggravate pre-existing respiratory conditions. Skin contact may aggravate pre-existing skin conditions in sensitive individuals.

TARGET ORGANS: None known.

4. FIRST AID MEASURES

EYE: Flush eyes with water for 15 minutes. If irritation persists, seek medical attention.

SKIN: Remove contaminated clothing and wash skin thoroughly with soap and water. If irritation persists, seek medical attention.

INGESTION: Not expected under normal conditions. If substantial amounts are ingested, consult a physician.

INHALATION: Not expected under normal conditions. If mists or degradation products are inhaled, remove to fresh air. Administer oxygen or artificial respiration as indicated and get immediate medical attention.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES No unusual fire hazards

FLASH POINT: 440 °F (COC)

FLAMMABLE LIMITS: LEL: No Data UEL: No Data

NFPA HAZARD CLASSIFICATION:
HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0

EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, foam, water fog. Foam and water fog are effective but may cause frothing. Do not use direct water stream as oil may spread and frothing can be violent. Continue to cool fire-exposed containers after flames are extinguished.

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5. FIRE FIGHTING MEASURES (CONTINUED)

FIRE AND EXPLOSION HAZARDS: Water may be used to keep fire-exposed containers cool and knock down vapors. Mists and sprays may be flammable at temperatures below normal flash point. Combustion may produce oxides of carbon, lithium compounds, and other oxidation products.

FIRE FIGHTING INSTRUCTIONS: Firefighters should wear a NIOSH-approved, self-contained breathing apparatus (SCBA) operated in the positive pressure mode and full turnout gear or bunker gear.

6. ACCIDENTAL RELEASE MEASURES

Avoid walking through spilled material. Scoop or wipe up spilled material and place in clean container for later disposal. Thoroughly remove residue to prevent slipping. Prevent entry into waterways and sewers. Wear appropriate protective equipment (i.e., rubber gloves, apron, etc. as necessary to avoid contact). (See Section 8.)

7. HANDLING AND STORAGE

Store in a cool, dry, well-ventilated area away from ignition sources and incompatible materials. Keep away from heat, sparks, flames, and strong oxidizers when handling. Avoid skin and eye contact. Promptly change contaminated clothing and discard items that cannot be adequately cleaned (i.e., leather shoes). Wash thoroughly after handling and before meals and breaks. Empty containers may contain combustible product residue. Use appropriate precautions.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION: None required under normal working conditions. If ventilation is insufficient to control air contaminants, select NIOSH approved respiratory protection according to the magnitude of exposure. Select and maintain respirators in accordance with OSHA 29 CFR 1910.134.

SKIN PROTECTION: Wear rubber gloves, apron, and other clothing as necessary to prevent skin contact.

EYE PROTECTION: Safety glasses or goggles as necessary to prevent eye contact.

ENGINEERING CONTROLS: General ventilation is acceptable for ordinary handling. Local exhaust may be needed to control air contaminants when product is heated or misting may occur.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Amber semi-solid
ODOR:	Bland
BOILING POINT:	Greater than 500 °F
VAPOR PRESSURE:	Less than 1 mm Hg
VAPOR DENSITY (Air = 1):	Greater than 1.0
SOLUBILITY IN WATER:	Ins ol uble
SPECIFIC GRAVITY (Water = 1):	0.89

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9. PHYSICAL AND CHEMICAL PROPERTIES (CONTINUED)

MELTING POINT: Not available
pH: Not available
% VOLATILE: Negligible

10. STABILITY AND REACTIVITY

STABILITY: Stable.

INCOMPATIBLE MATERIALS/CONDITIONS: Avoid contact with strong oxidizers (e.g., liquid chlorine, peroxides).

HAZARDOUS DECOMPOSITION PRODUCTS: Combustion may produce oxides of carbon and smaller amounts of toxic lithium, and other oxidation products.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

INHALATION: No data is available for this material.

INGESTION: No data is available for the oil components of this lubricant. Lithium hydroxy stearate: LD₅₀ 15 g/kg (Rat).

SKIN AND EYE: No data is available.

OTHER: No other data is available for this material.

12. ECOLOGICAL INFORMATION

Not data is available for this material. Avoid exposure to environment whenever possible.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with applicable federal, state, and local regulations for waste petroleum grease/oil. Dispose per 40 CFR Part 261 and 262.

14. TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME: Oil, not otherwise specified
DOT HAZARD CLASS: Not regulated by DOT as a hazardous material
UN IDENTIFICATION NUMBER: Not Applicable
DOT SHIPPING LABEL: Not regulated by DOT as a hazardous material
DOT PACKING GROUP: Not regulated by DOT as a hazardous material

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15. REGULATORY INFORMATION

WHMIS CLASSIFICATION: D2B

TSCA INVENTORY: The components of this product are listed on the TSCA inventory.

EPCRA - The material is not subject to Form "R" reporting.

SARA TITLE III – SECTION 313 SUPPLIER NOTIFICATION: This product does not contain ingredients subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and 40 CFR 372.

Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA): This product does not contain ingredients subject to the report requirements of SARA 204 (CERCLA) and 302 (EHS).

CERCLA Reportable Quantity: None.

Michigan Critical Materials Register: Except 7% Lithium Hydroxy Stearate (Lithium and Compounds – I.D. NO. 077U; Parameter NO. Class-02-0).

CALIFORNIA PROPOSITION 65: This product does not contain ingredients known to the State of California to cause cancer of reproductive toxicity.

16. OTHER INFORMATION

KEY:	
ACGIH:	American Conference of Governmental Industrial Hygienists
CAS:	Chemical Abstracts Service
CERCLA:	Comprehensive Environmental Response, Cleanup, and Liabilities Act
CFR:	Code of Federal Regulations
DOT:	Department of Transportation
EHS:	Extremely Hazardous Substance
EPCRA:	Emergency Planning and Community Right-to-Know Act
g/kg:	Gram of contaminant per kilogram of body weight
IARC:	International Agency for Research on Cancer
LD₅₀/LC₅₀:	Lethal dose or lethal concentration killing 50% of the test population
LEL/UEL:	Lower or upper explosive limit
mg/m³:	Milligrams of contaminant per cubic meter of air on a weight to volume basis
NIOSH:	National Institute for Occupational Safety and Health
NFPA:	National Fire Protection Association
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
PEL:	Permissible Exposure Limit
RTECS:	Registry of Toxic Effects of Chemical Substances
SARA:	Superfund Amendments and Reauthorization Act
STEL:	Short Term Exposure Limit
TLV:	Threshold Limit Value (2005)
TSCA:	Toxic Substances Control Act
WHMIS:	Workplace Hazardous Materials Information System

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DISCLAIMER

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