

HTL High Temperature Thread Lubricant

Safety Data Sheet

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE**SECTION 1: PRODUCT & COMPANY IDENTIFICATION**

Chemical Product Name: High Temperature Thread Lubricant
Product Description: Thread lubricant
CAS Number: Mixture of 64742-54-7, 7782-42-5, 7429-90-5, and trade secret
Synonyms: HTL4
Recommended Use(s): Thread lubricant for various industrial applications
Company Information: Eaton's Crouse-Hinds Division
1201 Wolf Street
Syracuse, NY 13208 USA
Telephone: (866) 764-5454
Emergency Phone: CHEMTREC (800) 424-9300

SECTION 2: HAZARDS IDENTIFICATION

OSHA HCS Status: This product is a hazardous chemical, as defined by OSHA at 29 CFR 1910.1200. Hazards identified are based on hazards of the ingredients. This product has not been fully tested.

Relevant Route of Exposure/Target Organs: Eyes, dermal, gastrointestinal tract.

OSHA/GHS Signal Word and Hazard Statements: WARNING: Causes skin irritation. Causes eye irritation. May cause respiratory irritation.

OSHA/GHS Classification and Pictograms:

Skin irritation
Eye irritation
Specific target organ toxicity, single exposure

Category 2
Category 2B
Category 3

**OSHA/GHS Precautionary Statements:****Prevention**

Wash hands and skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing fumes. Use only outdoors or in a well-ventilated area.

Response

If on skin: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If inhaled: Remove person to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.

Storage

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

GHS Hazard and Precautionary Statement Codes: See Section 16.

SECTION 3: COMPOSITION & INFORMATION ON INGREDIENTS

| Component | CAS # | % |
|---|--------------|-------|
| Distillates, hydrotreated heavy naphthenic | 64742-54-7 | 50-60 |
| Proprietary ingredient NTTSRN 80100362-5013P | Trade secret | 15-20 |
| Proprietary ingredient NJTSRN 80100362-5012P | Trade secret | 15-20 |
| Aluminum powder RTECS: BD0330000 | 7429-90-5 | 1-5 |
| Graphite powder | 7782-42-5 | 1-5 |

Additional Information: The highly refined petroleum distillate in this preparation, CAS # 64742-54-7, contains <3% (w/w) DMSO extract, according to IP346, "Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method."

SECTION 4: FIRST AID MEASURES

Eye Contact: Holding eyelids away from the eyeballs, flush eyes thoroughly with lukewarm water for 15 minutes. Do not rub. If irritation develops, seek medical attention.

Skin Contact: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before reuse. Seek medical attention if irritation develops.

Inhalation: Remove to fresh air. If symptoms persist, obtain appropriate medical attention.

Ingestion: No harmful effects are expected from ingestion of small quantities. Do not induce vomiting. If gastric disturbance occurs, seek medical attention.

Notes to Physician: Treat symptomatically.

Most Important Symptoms/Effects: Causes eye and skin irritation. May damage gastrointestinal tract if ingested.

Indication of Immediate Medical Attention and Special Treatment

Needed: Get medical attention immediately if product comes into contact with skin or eyes, or if it is inhaled or ingested.

SECTION 5: FIRE FIGHTING MEASURES

Special Fire Fighting Procedures: Fight like a fuel oil fire. Cool exposed containers with water spray. Use water to keep fire-exposed containers cool to prevent vapor pressure build-up.

Extinguishing media: Carbon dioxide, dry chemical, foam.

Protective Equipment: Firefighters should wear a NIOSH approved, full facepiece self-contained breathing apparatus (SCBA) operated in positive pressure mode and full turnout gear.

Unusual Fire or Explosion Hazards: None known.

Hazardous Combustion Products: Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: carbon dioxide, carbon monoxide, trace metal oxides.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Protection: Wear protective equipment appropriate for the level of exposure.

Spill Procedures: Isolate the hazard and deny entry to unnecessary and unprotected personnel. Do not walk through or otherwise scatter spilled material. Stop flow of spilled material. Scrape, wipe or mop up or absorb with diatomaceous earth or other inert material.

Environmental Precautions and Clean-up Methods: Spills may cause slippery floors. Disposal should be in accordance with local, state and federal regulations.

SECTION 7: HANDLING & STORAGE

Precautions: Spills may cause slippery floors. Proper footwear required. Remove contaminated clothing and launder before reuse. Wash hands with soap and water before eating, drinking or smoking. Discard contaminated leather gloves and shoes.

Storage: Store in a well-ventilated area. Keep containers well closed. Avoid storage near open flame or other ignition sources.

SECTION 8: EXPOSURE CONTROLS & PERSONAL PROTECTION

Engineering Controls/Ventilation: Local exhaust ventilation used in combination with general ventilation as necessary to control air contaminants to at or below acceptable exposure guidelines.

Eye Protection: Safety glasses with side shields or protective goggles. Wear safety goggles that meet ANSI Z87 standards and/or are tested and approved under appropriate government standards.

Respiratory Protection: Under normal working conditions with airborne exposures below acceptable exposure guidelines, none required. For airborne exposures above acceptable limits, wear NIOSH approved respiratory protection in accordance with OSHA 29 CFR 1910.134.

Skin Protection: Use neoprene or nitrile rubber gloves to prevent skin contact. Use chemical splash apron or other impervious clothing, if needed, to avoid contaminating regular clothing.

| Component | CAS # | OSHA/PEL | ACGIH/TLV |
|---|--------------|--|-----------------------------|
| Distillates, hydrotreated heavy naphthenic | 64742-54-7 | 5 mg/m ³ 10 mg/m ³ (STEL) | 5 mg/m ³ |
| Proprietary ingredient NTTSRN 80100362-5013P | Trade secret | N/E | N/E |
| Proprietary ingredient NJTSRN 80100362-5012P | Trade secret | N/E | N/E |
| Aluminum powder RTECS: BD0330000 | 7429-90-5 | N/E | 10 mg/m ³ (dust) |
| Graphite powder | 7782-42-5 | 2.5 mg/m ³ | 2.0 mg/m ³ |

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

- **Color:** Soft aluminum
- **Physical Form:** Paste
- **Odor:** Petroleum odor
- **Odor Characteristics:** NA
- **Odor Threshold:** NA
- **pH (Undiluted):** NA
- **Flash Point:** 420°F (250°C) **Method:** ASTM D92 COC
- **Flammability (Solid, Gas):** NA
- **Boiling Point:** NE
- **Evaporation Rate:** NA
- **Melting Point:** NA
- **Lower Explosive Limit:** NE
- **Upper Explosive Limit:** NE
- **Vapor Pressure:** NA
- **Vapor Density:** NA
- **Specific Gravity:** 1.1
- **Solubility:** Insoluble in Water
- **Auto-ignition Temperature:** NE
- **Decomposition Temperature:** NE

SECTION 10: STABILITY & REACTIVITY

Stability: Stable under normal use and storage conditions.

Hazardous Polymerization: Will not occur.

Oxidizing Properties: None known for product.

Hazardous Decomposition Products:

Incompatibilities: Avoid contact with strong oxidizers.

Conditions to Avoid: Do not heat above flash point. Do not weld.

SECTION 11: TOXICOLOGY INFORMATION

Acute Toxicity and Immediate Effects: No data is available for this material.

Oral LD50 (rat): No data is available for this material.

Inhalation LC50 (rat): No data is available for this material.

Dermal LD50: No data is available for this material.

Delayed and Chronic Effects: Prolonged or repeated contact may cause dermatitis or sensitization in some individuals.

Carcinogenicity: This product contains petroleum-based grease. For mineral oil mists, the ACGIH has proposed a "suspect carcinogen" designation and lowering the TLV to 0.2 mg/m³.

IARC: No

NTP: No

OSHA: No

Mutagenicity: No data is available for this material.

Reproductive Toxicity: No data is available for this material.

Sensitization: No data is available for this material.

Signs and Symptoms of Overexposure:

If Inhaled: Fumes produced at high temperatures may cause irritation and coughing.

If on Skin: Repeated or prolonged contact may cause minor irritation and inflammation.

If in Eyes: May cause minor irritation.

If Ingested: May cause nausea, vomiting and diarrhea. Prolonged or repeated skin contact without proper cleaning can clog pores of skin, resulting in disorders such as oil acne/folliculitis.

Existing Conditions Aggravated by Exposure: May aggravate existing skin disorders. Prolonged or repeated skin contact without proper cleaning can clog pores of skin, resulting in disorders such as oil acne/folliculitis.

SECTION 12: ECOLOGICAL INFORMATION

This product is not expected to have an adverse effect on the environment. Avoid exposure to environment whenever possible.

Toxicity to Fish: NE

Ecotoxicological Information: NE

Chemical Fate Information: NE

SECTION 13: DISPOSAL CONSIDERATIONS

Recycle, reclaim or dispose of contents/container to an approved landfill in accordance with local, regional, national, international regulations. Do not discard into any sewers, on the ground or into any body of water. It is the responsibility of the waste generator to determine the proper waste identification and disposal methods. As sold, this product is not known to be regulated under RCRA regulations. Disposal of unused portions of this product and process waste containing this product should be done only after careful consideration of all federal, local and state laws.

SECTION 14: TRANSPORT INFORMATION

Highway Shipments (DOT): Not classified as a hazardous material per DOT regulations.

Air Shipments (IATA): Not classified as a dangerous good per IATA Dangerous Goods Regulations.

Ocean Shipment (IMDG): Not classified as a dangerous good per IMDG Code.

SECTION 15: REGULATORY INFORMATION

TSCA Inventory Status: All ingredients are listed on the TSCA inventory.

SARA Section 311/312 Hazard Categories: Immediate (acute) and delayed (chronic) hazards.

Section 313 Toxic Chemicals: This product contains the following 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:

| Chemical | CAS Number | % By Weight |
|---------------------------------|------------|-------------|
| Aluminum (only if dust or fume) | 7429-90-5 | 1-5 |

CERCLA RQ: This product does not contain ingredients subject to the report requirements of SARA 304 (CERCLA) and 302 (EHS).

California Proposition 65: This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

Canadian Regulations: All components of this product are included in the Canadian Domestic Substances List (DSL) or the Canadian Non-domestic Substances List (NDSL).

WHMIS Classification: D2B.

SECTION 16: OTHER INFORMATION

Revision Number: Revision 2

Revision Date: August 2017

Explanation of Health Hazard Statements:

- P261 Avoid breathing fumes.
- P264 Wash hands thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P302 + P352 If on skin: Wash with plenty of soap and water.
- P332 + P313 If skin irritation occurs: Get medical advice/attention.
- P362 Take off contaminated clothing and wash before reuse.
- P305 + P351 + P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337 + P313 If eye irritation persists: Get medical advice/attention.
- P304 + P340: If inhaled: Remove person to fresh air and keep at rest in a position comfortable for breathing.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P403 + P233 Store in a well-ventilated place. Keep containers tightly closed.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Abbreviations

| | |
|--------|---|
| CAS | Chemical Abstracts Service |
| CERCLA | Comprehensive Environmental Response Compensation and Liability Act |
| CFR | US Code of Federal Regulations |
| HSIS | Australia Hazardous Substance Information System |
| IARC | International Agency for Research on Cancer |
| LD50 | Lethal Dose to 50% of Exposed Laboratory Animals |
| NA | Not Applicable |
| NE | Not Established |
| NIOSH | US National Institute of Occupational Safety and Health |
| NOEC | No Observed Effect Concentration |
| NTP | US National Toxicology Program |
| OSHA | US Occupational Safety Health Administration |
| PEL | Permissible Exposure Limit |
| RQ | Reportable Quantity |
| SARA | Superfund Amendments and Reauthorization Act |
| STEL | Short Term Exposure Limit |
| TSCA | Toxic Substances Control Act |
| TWA | Time Weighted Average |
| UN | United Nations |
| WHMIS | Canada Workplace Hazardous Material Information System |

DISCLAIMER

The information in this SAFETY DATA SHEET should be provided to all who will use, handle, store, transport or otherwise be exposed to this material. This information has been prepared for the guidance of plant engineering, operations and management, and for persons working with or handling this material. Eaton's Crouse-Hinds Division believes this information to be reliable and up-to-date as of the date of publication, but makes no warranty that it is.

All statements, technical information and recommendations contained herein are based on information and tests we believe to be reliable. The accuracy or completeness thereof are not guaranteed. In accordance with Eaton's Crouse-Hinds Division's "Terms and Conditions of Sale," and since conditions of use are outside our control, the purchaser should determine the suitability of the product for his intended use and assumes all risk and liability whatsoever in connection therewith.