

Health	1
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PPI	B

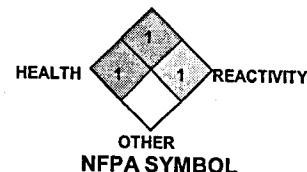
HMIS SYMBOL

270-045

MATERIAL SAFETY DATA SHEET

KOPR-KOTE® THREAD COMPOUND

FLAMMABILITY



SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name: **KOPR-KOTE® THREAD COMPOUND**
 Chemical Family: Mixture *JL 20*
 Use: Lubricating grease for tool joints and drill collars
 Manufacturer/Supplier: **Jet-Lube of Canada Ltd.**
 3820 - 97 Street NW
 Edmonton, Alberta
 Canada T6E 5S8
 Phone: (780) 463-7441 Fax: (780) 463-7454
 CCOHS: 1-800-668-4284

Emergency:
 CANUTEC PH: (613) 996-6666 Cell: *666 TTY/TDD: 1-888-675-6863

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components	Graphite	Copper	Talc	MoS ₂
CAS NO.	7782-42-5	7440-50-8	14807-96-6	1317-33-5
WT %	10 - 30	5 - 10	1 - 5	1 - 5
OSHA PEL	2.5 mg/m ³	1 mg/m ³	3 mg/m ³	15 mg/m ³ , as Mo
ACGIH TLV	2.0 mg/m ³	1 mg/m ³	3 mg/m ³	15 mg/m ³ , as Mo
LD50	Not Available	3mg/kg (mouse)	Not Available	>6 g/kg (rat, oral)
LC50	Not Available	Not Available	Not Available	Not Available

SECTION 3 - HAZARDS IDENTIFICATION

Route of Entry: Eyes, Inhalation, Ingestion, Skin
 Eyes: May cause irritation to eyes.
 Inhalation: Viscous nature may block breathing passages if inhaled.
 Ingestion: May cause diarrhea if ingested.
 Skin: May cause irritation after prolonged skin exposure, especially for persons with hypersensitivity.

SECTION 4 - FIRST AID MEASURES

Eyes: Flush with water For 15 minutes. If irritation persists, seek medical help.
 Ingestion: Do not induce vomiting. Wash out mouth. Contact a physician immediately.
 Skin: Remove by wiping or with a waterless hand cleaner, followed by washing with soap and water.
 Inhalation: Clear air passage. If breathing difficulty continues seek medical help.

SECTION 5 - FIRE FIGHTING MEASURES

Flammability: Nil at ambient temp
 Extinguishing Media: Use dry chemicals, foam, halon, CO₂.
 Flash Point (OC): >221°C (430°F)
 Explosive Properties: LEL - 0.9% UEL - 7%
 Auto-ignition Temp: >260°C (500°F)
 Explosion Data: Sensitivity to Impact - Not Available
 Sensitivity to Static Discharge - Not Available
 Hazardous Combustion Products: Oxides of carbon, smoke and irritating vapors as products of incomplete combustion.
 Protective Equipment: Self-contained breathing apparatus.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Spillage: Scoop up excess, then wipes down the affected area and pick up residue with diatomaceous earth to avoid a walking hazard.
 Environmental Precautions: Do not allow product to enter into drains.

SECTION 7 - HANDLING AND STORAGE

Handling Procedures: No special handling precautions necessary. Do not pressurize, cut, heat or weld empty containers.
 Storage Requirements: Store in a cool, well ventilated place.
 Engineering Controls: If user's operation generates vapors or mists, use ventilation to keep exposure to airborne contaminants below the exposure limit. Make up air should always be supplied to balance air removed by exhaust ventilation. Ensure eyewash station and safety shower are close to work station.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits: See Section 2 for ACGIH TLV and OSHA PEL Information
 Personal Protective Equipment (PPE's):
 Respiratory Protection: None required.
 Hand Protection: Protective gloves for hypersensitive persons.
 Eye Protection: Protective glasses if applied to moving parts.
 Body Protection: Protective overalls.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Odor/Appearance: Light Petroleum/Amber
 Odor Threshold: Not Available
 Vapor Pressure: <0.01 kPa
 Boiling Point: >370°C (700°F)
 pH: Neutral
 Density: 1.05 g/cm³
 Evaporation Rate (Butyl Acetate = 1.0): <0.01
 Coefficient of Water/Oil Distribution: Not Available
 Physical State: Paste
 Specific Gravity: 1.05 Typical
 Vapor Density: Not Available
 Melting Point: Not Available
 % Volatile: Nil
 Water Solubility: Nil
 Freezing Point: Not Available

SECTION 10 - STABILITY AND REACTIVITY

Stability: Chemically stable under normal conditions. No photoreactive agents.
 Conditions to Avoid: Powerful sources of ignition and extreme temperatures.
 Materials to Avoid: Strong acids and oxidizing agents.
 Hazardous Decomposition Products: May release CO_x, smoke and irritating vapors when heated to decomposition.

SECTION 11 - TOXICOLOGICAL INFORMATION

Effects of Short-Term (Acute) Exposure: Short term toxic effects of product not known at this time.
 Effects of Long-Term (Chronic) Exposure: Long term dermal application may produce possible skin irritation.
 Irritancy of Product: Not Available
 Skin Sensitization: Not Available
 Respiratory Sensitization: Not Available
 Teratogenicity, Embryotoxicity and/or Fetotoxicity: Not Available
 Mutagenicity: Not Available
 Carcinogen: NTP: No IARC: No OSHA: No
 Name of Synergistic Products/Effects: Not Available

SECTION 12 - ECOLOGICAL INFORMATION

Possible Effects: May generate oil fractions that could act as a marine pollutant.
 Behavior: Low bioaccumulation potential.
 Environmental Fate: Highly unlikely to cause widespread contamination.

SECTION 13 - DISPOSAL CONSIDERATIONS

Consult federal, provincial and local regulations for disposal of petroleum products.
 Do not incinerate.

SECTION 14 - TRANSPORT INFORMATION

TDG (Canada): The mixture is not specifically listed in the Canadian Transportation of Dangerous Goods regulations. The mixture has components that are classified as marine pollutants.

Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (COPPER), CLASS 9, PG III, MARINE POLLUTANT

UN No.: UN3082
 Packing Group: III
 Classification: 9
 Special Provisions: 16, 99
 Maximum net quantity per package (Air): 400kg passenger plane 400kg cargo plane
 Special provisions (Air): A97, A158
 Packing instructions (Air): 964
 EXEMPTION NOTICE (Marine): 1.17 Limited Quantities Exemption for single containment of product 5 liters or less.

SECTION 15 - REGULATORY INFORMATION

WHMIS: Marine Pollutant
 DSL: All components listed
 CPR Compliance: This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all of the information required by those regulations.

SECTION 16 - OTHER INFORMATION

CPR - Controlled Product Regulations
 DSL - Domestic Substance List
 As of issue date, the information contained herein is accurate and reliable to the best of Jet-Lube of Canada Ltd.'s knowledge. Jet-Lube of Canada Ltd. does not warrant or guarantee its accuracy or reliability and shall not be liable for any loss or damage arising out of the use thereof. It is the users' responsibility to satisfy themselves that the information offered for their consideration is suitable for their particular use.

Prepared by: Jet-Lube of Canada Ltd. - Laboratory
 Last Date of Revision: September 8, 2015