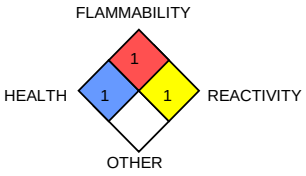
Health	1
Flammability	1
Reactivity	1
PPI	B

HMIS SYMBOL

MATERIAL SAFETY DATA SHEET

KOPR-KOTE THERMAL GRADE



NFPA SYMBOL

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name: **KOPR-KOTE THERMAL GRADE**

Chemical Family: Mixture

Use: Lubricating grease anti-seize

Manufacturer/Supplier:

Jet-Lube of Canada Ltd.
3820 – 97 Street
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	Talc	Graphite	Copper	Molybdenum Disulphide
CAS NO.	14807-96-6	7782-42-5	7440-50-8	1317-33-5
WT %	3-7	7-13	5-10	1-5
OSHA PEL	2 mg/m^3 (dust)	2.5 mg/m^3	1 mg/m^3 (dust)	15 mg/m^3
ACGIH TLV	2 mg/m^3 (dust)	2 mg/m^3	1 mg/m^3 (dust)	10 mg/m^3
LD50	Not Available	10000 mg/kg	Not Available	>2000 mg/kg (oral,rat)
LC50	Not Available	64400 mg/m³	Not Available	>2820 mg/m³ (rat)
OTHER:	Not Applicable	Not Applicable	Not Applicable	Not Applicable

SECTION 3 - HAZARDS IDENTIFICATION

Route of Entry: Eyes, Inhalation, Ingestion, Skin
Eyes: May cause irritation to eyes as a foreign object.
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 hyper sensitivity.

SECTION 4 - FIRST AID MEASURES

Eyes: Flush with water until all residual material is gone. 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, CO_2
Flash Point (OC): >293°C (560°F)
Flammable Limits: Upper (Not Available) Lower (Not Available)
Explosive Properties: Sensitivity to Static Discharge (Not Available)
Sensitivity to Impact (Not Available)
LEL – 0.9% UEL - 7%
Auto-ignition Temp: >360°C (680°F)
Hazardous Combustion Products: Oxides of carbon, smoke and irritating vapors as products of incomplete combustion.

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 are necessary. Do not pressurize, cut, heat or weld empty containers.
Storage Requirements: Store in a cool, well ventilated place.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:	Talc	Graphite	Copper	Molybdenum Disulphide
OSHA PEL	2mg/m³	2.5mg/m³	1mg/m³	15mg/m³
ACGIH TLV	2mg/m³	2.0mg/m³	1mg/m³	10mg/m³

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.
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

Physical State:	Paste	Odor & Appearance:	Light Petroleum & Dark Brown
Odor Threshold:	Not Available	Specific Gravity:	1.10 Typical
Vapor Pressure:	<0.01 kPa	Vapor Density:	Not Available
Boiling Point:	>370°C (698°F)	Freezing Point:	Not Available
pH:	Neutral		
Density:	1.10 g/cm^3		

Coefficient of Water/Oil Distribution: Not Available
Evaporation Rate (Butyl Acetate = 1.0): <0.01

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 COx, smoke and irritating vapors when heated to decomposition.

SECTION 11 - TOXICOLOGICAL INFORMATION

Effects of Short-Term (Acute) Exposure: No adverse affects know.
Effects of Long-Term (Chronic) Exposure: Long term dermal application may produce possible skin irritation. Elevated temperatures or mechanical action may form vapors or fumes. Inhalation of oil mists or vapors may cause irritation of the upper respiratory tract.
Irritancy of Product: Products is not known to be an irritant.
Skin Sensitization: Product is not known to produce skin sensitization.
Respiratory Sensitization: Product is not known to produce respiratory sensitization.
Teratogenecity, Embryotoxicity & Reproductive Toxicity: Not Available
Mutagenicity: Product is not a known mutagen.
Carcinogen: Not classifiable as a human carcinogen IARC: Group 3 ACGIH: A4
Name of Synergistic Products/Effects: Not Available.

SECTION 12 - ECOLOGICAL INFORMATION

Possible Effects:	May generate oil fractions that could act as a marine pollutant, but is highly unlikely.
Behavior:	Product is non-reactive under ambient conditions. Bioaccumulation potential almost nil.
Environmental Fate:	Highly unlikely to cause widespread contamination. May be toxic to marine and land organisms. Non-toxic to land and marine organisms.

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 is not regulated.
Land & Rail:	Not Regulated
Marine:	Regulated
Shipping Name:	Environmentally Hazardous Substance, N.O.S (copper)
UN No.:	UN3077
Packing Group:	III
Classification:	Class 9
Labeling Requirements:	Class 9 and Marine Pollutant Labels
Placard Requirements:	None
Labeling Requirements:	Limited Quantities Label for containment less than LQI of 5L net Contents per containment. Class 9 & Marine Pollutant label if >5L net contents per containment or large containment.
Placard Requirements:	Limited Quantities – Non-Required Large Containment – Class 9 & Marine Pollutant
Air Transport Requirements:	Hazard Label – Miscellaneous PG – III
Passenger and Cargo Aircraft	Packing Instructions – 956 Max Net Qty/Package – 400 kg
	Limited Quantity Packing Instructions – Y956 Max Net Qty/Package – 30 kg G
Cargo Aircraft Only	Packaging Instructions – 956 Max Net Qty/Package – 400kg

SECTION 15 -REGULATORY INFORMATION

WHMIS:	Not Classified
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

Prepared by: **Jet-Lube of Canada Ltd. - Laboratory**
Last Date of Revision: **October 22, 2014**