



Material Safety Data Sheet

Print Date 17-Sep-2012

Revision Date 17-Sep-2012

Revision Number 0

This safety datasheet has been prepared according to Australian legislation

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product Code(s) 10041
Product Name Jet-Lube® KOPR-KOTE® - Aerosol

Synonyms No information available.

Recommended Use Lubricants, Greases and Release Products.

Company Jet-Lube, Inc.
4849 Homestead Rd.
Suite 232
Houston, TX 77379
TEL: 713-670-5700

Supplier Xtex Pty. Ltd
ABN 40 121 722 236
80 Daly Street
Ascot, WA 6104
TEL: 1300-00-9839
0437-272-490 mobile

Emergency Telephone Number TEL: 1300-00-9839

2. HAZARDS IDENTIFICATION

Classified as hazardous according to criteria of NOHSC
Hazardous substance. Dangerous goods.

Classification
Xi - Irritant

R-phrases(s)
R10 - Flammable
R36 - Irritating to eyes
R66 - Repeated exposure may cause skin dryness or cracking
R67 - Vapors may cause drowsiness and dizziness
R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S-phrases(s)
S16 - Keep away from sources of ignition - No smoking
S23 - Do not breathe gas/fumes/vapor/spray
S25 - Avoid contact with eyes
S33 - Take precautionary measures against static discharges
S51 - Use only in well ventilated areas
S61 - Avoid release to the environment. Refer to special instructions/safety data sheets

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	EC-No	Weight %	Classification	EU - GHS Substance Classification
Petroleum gases	68476-85-7	270-704-2	10 - < 30%	F;R11 Xi;R36 R66 R67	Flam. Liq. 2 (H225) STOT SE 3 (H336) Eye Irrit. 2 (H319) (EUH066)

Copper	7440-50-8	231-159-6	< 10%	Xi;R36/37/38 N;R50-53 PBT	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Solvent naphtha (petroleum), medium aliphatic	64742-88-7		< 10%	Xn;R65;R51/53	Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411) (EUH066)

For the full text of the R-phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES

Inhalation	Move to fresh air. If symptoms persist, call a physician.
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician. In case of burns, immediately cool affected skin for as long as possible with cold water.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
Ingestion	Not an expected route of exposure. Clean mouth with water and afterwards drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.
Notes to Physician	Treat symptomatically.
Aggravated Medical Conditions	Central nervous system.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases	Keep product and empty container away from heat and sources of ignition. Containers may explode when heated.
Special protective equipment for fire-fighters	Cool closed containers exposed to fire with water spray.
Hazchem Code	No information available.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Contents under pressure. Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment.
Environmental Precautions	Do not flush into surface water or sanitary sewer system.
Methods for Cleaning up	Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Technical Measures/Precautions	Ensure adequate ventilation. Use only in area provided with appropriate exhaust ventilation.
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Safe Handling Advice	Handle in accordance with good industrial hygiene and safety practice. Wear personal protective equipment. Do not breathe vapors or spray mist. Take precautionary measures against static discharges.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Keep away from direct sunlight. Store in accordance with local regulations.
Materials to Avoid	Oxidizing agents. Strong acids.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Controls

Exposure limits

Chemical Name	Australia	ACGIH TLV	EU
Petroleum gases	1000 ppm 1800 mg/m ³	TWA: 1000 ppm	
Copper	1 mg/m ³ 0.2 mg/m ³	TWA: 0.2 mg/m ³ fume	

Biological standards No biological limit allocated.

Engineering Measures Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Ensure that eyewash stations and safety showers are close to the workstation location.

Environmental Exposure Controls Do not allow material to contaminate ground water system.

Personal Protective Equipment

Respiratory Protection

When workers are facing concentrations above the exposure limit (dust) they must use appropriate certified respirators. In the case of dust or aerosol formation use respirator with an approved filter.

Eye/Face Protection Risk of contact, wear: Safety glasses with side-shields.

Skin and Body Protection Long sleeved clothing.

Hand Protection Protective gloves. Neoprene. Nitrile rubber.

Hygiene Measures When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Copper, Bronze
Odor	Petroleum
Odor Threshold	No information available
Physical State	Aerosol Semi-fluid (gel)
pH	Neutral
Flash Point	> 75 °C
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Boiling Point/Boiling Range	< 316 °C
Melting Point/Range	> 260 °C
Flammability Limits in Air	Upper No data available. Lower No data available.

Explosive Properties	No information available
Oxidizing Properties	No information available
Evaporation Rate	No data available
Vapor Pressure	No data available.
Vapor Density	No data available.
Specific Gravity	0.881
Solubility	Largely
Water Solubility	Insoluble in water.
Partition Coefficient: n-octanol/water	No data available.
Viscosity	No information available

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions to Avoid	Heat, flames and sparks. Keep away from direct sunlight.
Materials to Avoid	Oxidizing agents. Strong acids.
Hazardous Decomposition Products	None under normal use.
Hazardous Polymerization	None under normal processing.
Hazardous Reactions	None under normal processing.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Target Organ Effects Central nervous system (CNS).

Toxicology data for the components

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
<i>Solvent naphtha (petroleum), medium aliphatic - 64742-88-7</i>	> 5000 mg/kg (Rat)	= 3000 mg/kg (Rabbit)	> 5.28 mg/L (Rat) 4 h

Product Information

Potential Health Effects

Inhalation	Vapors may irritate throat and respiratory system. May cause drowsiness and dizziness.
Eye Contact	Irritating to eyes.
Skin Contact	Repeated exposure may cause skin dryness or cracking.
Ingestion	Not an expected route of exposure. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache).
Sensitization	No information available.

Chronic Toxicity

Carcinogenicity	Contains no ingredient listed as a carcinogen.
Mutagenic Effects	No information available.
Reproductive Toxicity	No information available.
Developmental Toxicity	No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Ecotoxicity effects of component substances:

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Copper	EC50 96 h: 0.031 - 0.054 mg/L static (Pseudokirchneriella subcapitata) EC50 72 h: 0.0426 - 0.0535 mg/L static (Pseudokirchneriella subcapitata)	LC50 96 h: 0.0068 - 0.0156 mg/L (Pimephales promelas) LC50 96 h: < 0.3 mg/L static (Pimephales promelas) LC50 96 h: = 0.052 mg/L flow-through (Oncorhynchus mykiss) LC50 96 h: = 0.112 mg/L flow-through (Poecilia reticulata) LC50 96 h: = 0.2 mg/L flow-through (Pimephales promelas) LC50 96 h: = 0.3 mg/L semi-static (Cyprinus carpio) LC50 96 h: = 0.8 mg/L static (Cyprinus carpio) LC50 96 h: = 1.25 mg/L static (Lepomis macrochirus)	-	EC50 48 h: = 0.03 mg/L Static (Daphnia magna)
Solvent naphtha (petroleum), medium aliphatic	EC50 96 h: = 450 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h: = 800 mg/L static (Pimephales promelas)		EC50 48 h: > 100 mg/L (Daphnia magna)

Persistence and Degradability No information available.

Bioaccumulative Potential No information available.

Mobility Adsorbs on soil.

Chemical Name	Log Pow
Petroleum gases	2.8

13. DISPOSAL CONSIDERATIONS

Waste from Residues / Unused Products Dispose of in accordance with local regulations.

Contaminated Packaging Empty containers should be taken to an approved waste handling site for recycling or disposal. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

14. TRANSPORT INFORMATION

Hazchem Code No information available.

DOT

Proper shipping name Aerosols, flammable
Hazard Class 2.1
UN-Number UN1950
Marine Pollutant This product contains a chemical which is listed as a severe marine pollutant according to DOT.
Description UN1950, Aerosols, flammable, 2.1

Emergency Response Guide Number	126
ADR	
Proper Shipping Name	Not regulated
Hazard Class	Aerosols
UN-Number	2.1
Classification Code	UN1950
Description	5F
	UN1950 Aerosols, 2.1,
ICAO	
UN-Number	Not regulated
Proper shipping name	UN1950
Hazard Class	Aerosols
Description	2.1
	UN1950, Aerosols, 2.1
TDG	
Proper Shipping Name	Aerosols
Hazard Class	2.1
UN-Number	UN1950
Description	UN1950, Aerosols, 2.1
IMDG/IMO	
Proper Shipping Name	Not regulated
Hazard Class	Aerosols
UN-Number	2.1
EmS No.	UN1950
Description	F-D, S-U
	UN1950, Aerosols, 2.1, FP >75C
IATA	
UN-Number	Not regulated
Proper Shipping Name	UN1950
Hazard Class	Aerosols, flammable
ERG Code	2.1
Description	10L
	UN1950, Aerosols, flammable, 2.1
MEX	
Proper Shipping Name	Aerosols
Hazard Class	2.2
UN-Number	UN1950
Description	UN1950, Aerosols, 2.2
ADN	
Proper Shipping Name	Aerosols
Hazard Class	2
UN-Number	UN1950
Classification Code	5F
Special Provisions	190, 327, 344, 625
Description	UN1950, Aerosols, 2.1
Limited Quantity	1 L
Ventilation	VE01, VE04

15. REGULATORY INFORMATION

Standard for the Uniform Scheduling of Drugs and Poisons(SUSDP) No Poisons Schedule number allocated

International Inventories

Chemical Name	EINECS	ELINCS	PICCS	ENCS	DSL
Petroleum gases	270-704-2	-	X	(9)-1697	X
Copper	231-159-6	-	X	-	X
Solvent naphtha (petroleum), medium aliphatic	265-191-7	-	X	(9)-1700	X
Chemical Name	NDSL	TSCA	IECSC	AICS	KECL
Petroleum gases	-	Present	X	X	KE-28191
Copper	-	Present	X	X	KE-08896
Solvent naphtha (petroleum), medium aliphatic	-	Present	X	X	KE-31664

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

16. OTHER INFORMATION

Full text of R-phrases referred to under Sections 2 and 3

R10 - Flammable

R11 - Highly flammable

R36 - Irritating to eyes

R50 - Very toxic to aquatic organisms

R65 - Harmful: may cause lung damage if swallowed

R66 - Repeated exposure may cause skin dryness or cracking

R67 - Vapors may cause drowsiness and dizziness

Risk Combination Phrases

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Full text of H-Statements referred to under sections 2 and 3

• H225 - Highly flammable liquid and vapor

• H304 - May be fatal if swallowed and enters airways

• H319 - Causes serious eye irritation

• H336 - May cause drowsiness or dizziness

• H400 - Very toxic to aquatic life

• H411 - Toxic to aquatic life with long lasting effects

• EUH066 - Repeated exposure may cause skin dryness or cracking

Revision Date 17-Sep-2012

Reason for Revision Initial Release

Prepared By Product Stewardship
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1-800-572-6501

Literary Reference No information available.

Sources of key data used to compile the datasheet No information available.

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End of Safety Data Sheet