



SAFETY DATA SHEET

Issuing Date 30-Jul-2015

Revision Date 30-Jul-2015

Revision Number 0

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Code(s) 10041

Product Name Jet-Lube® KOPR-KOTE® - Aerosol

Synonyms KOPR-KOTE® - Aerosol

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Lubricants, Greases and Release Products

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Importer	Company
Jet-Lube (UK) Ltd	Jet-Lube, Inc.
Jet-Lube House	4849 Homestead Rd.
Reform Road	Suite 232
Maidenhead	Houston, Texas 77028
Berkshire UK	TEL: 713-670-5700 (7:00 a.m. - 5 p.m.)
SL6 8BY	
TEL: 44 1628-631913 (8:00 a.m. - 5:00 p.m.)	

For further information, please contact

E-mail Address doldiges@jetlube.com

1.4. Emergency telephone number

Emergency Telephone Number CHEMTREC: +1-703-527-3887 (INTERNATIONAL)
1-800-424-9300 (NORTH AMERICA)

Europe	112
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Section 2. Hazards identification

2.1. - Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Serious Eye Damage/Eye Irritation	Category 2
Specific Target Organ Systemic Toxicity (Single Exposure)	Category 3
Specific Target Organ Toxicity (Repeated Exposure)	Category 2
Chronic Aquatic Toxicity	Category 3

Physical Hazards

Flammable aerosols	Category 1
Gases under pressure	Compressed gas

2.2. Label Elements



Signal Word

Danger

Hazard Statements

H319 - Causes serious eye irritation

H336 - May cause drowsiness or dizziness

H373 - May cause damage to organs through prolonged or repeated exposure

H412 - Harmful to aquatic life with long lasting effects

H222 - Extremely flammable aerosol

H280 - Contains gas under pressure; may explode if heated

EUH066 - Repeated exposure may cause skin dryness or cracking

EUH210 - Safety data sheet available on request

Precautionary Statements

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P211 - Do not spray on an open flame or other ignition source

P251 - Pressurized container: Do not pierce or burn, even after use

P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F

2.3. Other information

Section 3. Composition/information on ingredients

3.1. Substances

Chemical Name	EC-No	CAS-No	Weight %	EU - GHS Substance Classification	REACH No.
Petroleum gases	270-704-2	68476-85-7	20-25	Flam. Liq. 2 (H225) STOT SE 3 (H336) Eye Irrit. 2 (H319) (EUH066)	No data available
Graphite	231-955-3	7782-42-5	5-10		No data available
Copper	231-159-6	7440-50-8	5-10	Aquatic Acute 1 (H400)	01-2119480154-42-XX XX
Solvent naphtha (petroleum), medium aliphatic	Present	64742-88-7	3-5	STOT RE 1 (H372) Asp. Tox. 1 (H304)	No data available
Talc	238-877-9	14807-96-6	2-5		No data available
Limestone	215-279-6	1317-65-3	2-5		No data available
Molybdenum (IV) sulfide	215-263-9	1317-33-5	1-2		No data available

For the full text of the H-Statements mentioned in this Section, see Section 16

Section 4. First aid measures

4.1. Description of first-aid measures

General Advice	Immediate medical attention is not required. If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. 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.
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.
Inhalation	Move to fresh air. If symptoms persist, call a physician.
Protection of First-aiders	Remove all sources of ignition. Use personal protective equipment.

4.2. Most important symptoms and effects, both acute and delayed

Most Important Symptoms/Effects Drowsiness. Dizziness. Itching. Rashes.

4.3. Indication of immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

Section 5. Fire-fighting measures

5.1. Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Extinguishing media which must not be used for safety reasons

No information available.

5.2. Special hazards arising from the substance or mixture

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.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Cool closed containers exposed to fire with water spray.

Section 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Contents under pressure. Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. Avoid release to the environment. See Section 12 for additional Ecological Information.

6.3. Methods and materials for containment and cleaning up

Prevent further leakage or spillage if safe to do so.

Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

6.4. Reference to other sections

Personal protection equipment (PPE) - Refer to Section 8.

Disposal - Refer to Section 13.

Section 7. Handling and storage

7.1. Precautions for Safe Handling

Handling

Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Use only in an area containing flame proof equipment. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment. Do not breathe vapors or spray mist.

Hygiene Measures

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

7.2. Conditions for safe storage, including any incompatibilities

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.

7.3. Specific end use(s)

Exposure Scenario

No information available.

Other Guidelines

No information available.

Section 8. Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical Name	EU	The United Kingdom	France	Spain	Germany
Petroleum gases 68476-85-7		STEL: 1250 ppm STEL: 2180 mg/m ³ TWA: 1000 ppm TWA: 1750 mg/m ³		VLA-ED: 1000 ppm	
Graphite 7782-42-5		STEL: 30 mg/m ³ STEL: 12 mg/m ³ TWA: 10 mg/m ³ TWA: 4 mg/m ³	VME: 2 mg/m ³	VLA-ED: 2 mg/m ³	MAK: 1.5 mg/m ³ MAK: 4 mg/m ³

Copper 7440-50-8		STEL: 0.6 mg/m ³ STEL: 2 mg/m ³ TWA: 0.2 mg/m ³ TWA: 1 mg/m ³	VME: 0.2 mg/m ³ VME: 1 mg/m ³ VLCT: 2 mg/m ³	VLA-ED: 0.2 mg/m ³ VLA-ED: 1 mg/m ³	MAK: 0.1 mg/m ³ Ceiling / Peak: 0.2 mg/m ³
Talc 14807-96-6		STEL: 3 mg/m ³ TWA: 1 mg/m ³		TWA: 2 mg/m ³	
Limestone 1317-65-3		STEL: 30 mg/m ³ STEL: 12 mg/m ³ TWA: 10 mg/m ³ TWA: 4 mg/m ³			
Molybdenum (IV) sulfide 1317-33-5		TWA: 10 mg/m ³		VLA-ED: 10 mg/m ³ VLA-ED: 3 mg/m ³	
Component	Italy	Portugal	The Netherlands	Finland	Denmark
Petroleum gases 68476-85-7 (20-25)		TWA: 1000 ppm			
Graphite 7782-42-5 (5-10)		TWA: 2 mg/m ³		TWA: 2 mg/m ³	TWA: 2.5 mg/m ³
Copper 7440-50-8 (5-10)		TWA: 0.2 mg/m ³ TWA: 1 mg/m ³	TWA: 0.1 mg/m ³	TWA: 1 mg/m ³ TWA: 0.1 mg/m ³	TWA: 1.0 mg/m ³ TWA: 0.1 mg/m ³
Talc 14807-96-6 (2-5)		TWA: 2 mg/m ³	TWA: 0.25 mg/m ³	TWA: 0.5 fiber/cm ³ TWA: 5 mg/m ³	TWA: 0.3 fiber/cm ³
Molybdenum (IV) sulfide 1317-33-5 (1-2)		TWA: 10 mg/m ³ TWA: 3 mg/m ³			TWA: 10 mg/m ³
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Petroleum gases 68476-85-7					TWA: 1000 ppm TWA: 1800 mg/m ³ STEL: 1250 ppm STEL: 2250 mg/m ³
Graphite 7782-42-5	STEL 10 mg/m ³ MAK: 5 mg/m ³	MAK: 2.5 mg/m ³ MAK: 5 mg/m ³	NDS: 4.0 mg/m ³ NDS: 1.0 mg/m ³ NDS: 6.0 mg/m ³	TWA: 5 mg/m ³ TWA: 2 mg/m ³ TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 10 mg/m ³ STEL: 4 mg/m ³ STEL: 20 mg/m ³ STEL: 8 mg/m ³	TWA: 10 mg/m ³ TWA: 4 mg/m ³
Copper 7440-50-8	STEL 4 mg/m ³ STEL 0.4 mg/m ³ MAK: 1 mg/m ³ MAK: 0.1 mg/m ³	STEL: 0.2 mg/m ³ MAK: 0.1 mg/m ³	NDS: 0.2 mg/m ³	TWA: 0.1 mg/m ³ TWA: 1 mg/m ³ STEL: 0.3 mg/m ³ STEL: 3 mg/m ³	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³ STEL: 2 mg/m ³
Talc 14807-96-6	TWA: 2 mg/m ³	TWA: 2 mg/m ³	TWA: 4.0 mg/m ³ TWA: 1.0 mg/m ³	TWA: 6 mg/m ³ TWA: 2 mg/m ³ STEL: 12 mg/m ³ STEL: 4 mg/m ³	TWA: 10 mg/m ³ TWA: 0.8 mg/m ³
Limestone 1317-65-3		MAK: 3 mg/m ³			TWA: 10 mg/m ³ TWA: 4 mg/m ³
Molybdenum (IV) sulfide 1317-33-5	STEL 20 mg/m ³ MAK: 10 mg/m ³	MAK: 10 mg/m ³	NDSCh: 10 mg/m ³ NDS: 4 mg/m ³	TWA: 10 mg/m ³ STEL: 20 mg/m ³	TWA: 3 mg/m ³ TWA: 0.5 mg/m ³

Derived No Effect Level No information available
Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

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.

Personal protective equipment

Eye Protection

If splashes are likely to occur, wear: Safety glasses with side-shields.

Skin and Body Protection

Long sleeved clothing.

Hand Protection

Protective gloves.

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.

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

Section 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State	Aerosol, Semi-fluid (gel)	Appearance	Copper, Bronze
Odor	Petroleum		
Property	Values	Remarks/ - Method	
pH	Neutral	None known	
Melting Point/Range	> 260 °C	None known	
Boiling Point/Boiling Range	< 316 °C	None known	
Flash Point	> 75 °C	None known	
Evaporation rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	
Vapor Pressure	No data available	None known	
Vapor Density	No data available	None known	
Relative Density	0.881	None known	
Water Solubility	Insoluble in water.	None known	
Solubility in other solvents	Largely	None known	
Partition coefficient: n-octanol/water	No data available	None known	
Autoignition Temperature	No data available	None known	
Decomposition Temperature	No data available	None known	
Viscosity	No data available	None known	
Flammable Properties	Flammable aerosol.		
Explosive Properties	No data available		
Oxidizing Properties	No data available		

9.2. Other information

VOC Content (%)	No information available
VOC (g/l)	264
Flammability Limits in Air	No data available

Section 10. Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Heat, flames and sparks. Keep away from direct sunlight. Incompatible products.

10.5. Incompatible materials

Oxidizing agents. Strong acids.

10.6. Hazardous decomposition products

None under normal use.

Section 11. Toxicological information

11.1. Information on toxicological effects

Acute Toxicity

Product Information**Inhalation**

Vapors may irritate throat and respiratory system. May cause drowsiness and dizziness.

Eye Contact

Irritating to eyes. Causes serious eye irritation.

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).

Component Information**Component Information:**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Solvent naphtha (petroleum), medium aliphatic	> 5000 mg/kg (Rat)	= 3000 mg/kg (Rabbit)	> 5.28 mg/L (Rat) 4 h
Molybdenum (IV) sulfide			> 2820 mg/m ³ (Rat) 4 h

Sensitization

No information available.

Mutagenic Effects

No information available.

Carcinogenic Effects

No information available.

Reproductive Toxicity

No information available.

Developmental Toxicity

No information available.

STOT - single exposure

No information available.

STOT - repeated exposure

No information available.

Target Organ Effects

Central nervous system (CNS).

Aspiration Hazard

No information available.

Section 12. Ecological information

12.1. Toxicity**Ecotoxicity Effects**

Harmful to aquatic life with long lasting effects.

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)
Talc		LC50 96 h: > 100 g/L semi-static (Brachydanio rerio)		

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential.

Chemical Name	Log Pow
Petroleum gases	2.8

12.4. Mobility in soil

Adsorbs on soil.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

This product does not contain any known or suspected endocrine disruptors.

Section 13. Disposal considerations

13.1. Waste treatment methods

Waste from Residues / Unused Products

Waste is classified as hazardous. 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.

Other Information

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

Section 14. Transport information

IMDG/IMO

14.1. UN-Number	UN1950
14.2. Proper Shipping Name	Aerosols
14.3. Hazard Class	2
Subsidiary Class	See SP63
14.4. Packing Group	Not regulated.
Description	UN1950, Aerosols, 2.1 (See SP63)
14.5. Marine Pollutant	None.
14.6. Special Provisions	None.
EmS No.	F-D, S-U
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available.

RID

14.1. UN-Number	UN1950
14.2. Proper Shipping Name	Aerosols
14.3. Hazard Class	2
14.4. Packing Group	Not regulated.
Description	UN1950, Aerosols, 2.1

14.5. Environmental hazard	None.
14.6. Special Provisions	None.
Classification Code	5F
ADR	
14.1. UN-Number	UN1950
14.2. Proper Shipping Name	Aerosols
14.3. Hazard Class	2
14.4. Packing Group	Not regulated.
Description	UN1950, Aerosols, 2.1, (D)
14.5. Environmental hazard	None.
14.6. Special Provisions	None.
Classification Code	5F
Tunnel Restriction Code	(D)

ICAO

14.1. UN-Number	UN1950
14.2. Proper shipping name	Aerosols
14.3. Hazard Class	2.1
14.4. Packing Group	Not regulated.
Description	UN1950, Aerosols, 2.1
14.5. Environmental hazard	None.
14.6. Special Provisions	None.

IATA

14.1. UN-Number	UN1950
14.2. Proper Shipping Name	Aerosols, flammable
14.3. Hazard Class	2.1
14.4. Packing Group	Not regulated.
Description	UN1950, Aerosols, flammable, 2.1
14.5. Environmental hazard	None.
14.6. Special Provisions	None.
ERG Code	10L

Section 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**International Inventories**

TSCA	Not determined
EINECS/ELINCS	Complies
DSL/NDSL	Complies
PICCS	Not determined
ENCS	Not determined
IECSC	Not determined
AICS	Not determined
KECL	Not determined

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

15.2. Chemical Safety Assessment

No information available

Section 16. Other information**Full text of H-Statements referred to under sections 2 and 3**

H304 - May be fatal if swallowed and enters airways
H372 - Causes damage to organs through prolonged or repeated exposure
H225 - Highly flammable liquid and vapor
H336 - May cause drowsiness or dizziness
H319 - Causes serious eye irritation
H400 - Very toxic to aquatic life
EUH066 - Repeated exposure may cause skin dryness or cracking
H373 - May cause damage to organs through prolonged or repeated exposure
H412 - Harmful to aquatic life with long lasting effects
H222 - Extremely flammable aerosol
H280 - Contains gas under pressure; may explode if heated
EUH210 - Safety data sheet available on request

Key literature references and sources for data

www.ChemADVISOR.com/

Issuing Date	30-Jul-2015
Revision Date	30-Jul-2015
Revision Note	Initial Release.

This safety data sheet complies with the requirements of Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No. 1907/2006

General Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet