



A CSW Industrials Company

# SAFETY DATA SHEET

This SDS conforms to REACH SDS CLP regulation 2015/830.

Issuing Date 09-Jan-2013

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Revision Number 1



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## Section 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Product Code(s)** 103  
**(M)SDS Number** WPS-JLI-101  
**Product Name** KOPR KOTE® ARCTIC  
**Chemical name**

### 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

**Supplier Name** Jet-Lube of Canada Ltd.  
**Supplier Address** Jet-Lube of Canada LTD  
Units 8 & 9, 1260 - 34 Avenue  
Nisku, AB, Canada  
T9E 1K7  
**Supplier Phone Number** JLC Office 1.780.463.7441 Toll Free 1.888.771.7775  
**Supplier Email** Sales@jetlubecanada.com

**Importer** Jet-Lube (UK) Ltd  
City Park, Watchmead  
Welwyn Garden City, Hertfordshire  
AL7 1LT  
United Kingdom  
**Manufacturer** Jet Lube LLC  
930 Whitmore Drive  
Rockwall, Texas USA 75087

For further information, please contact.



**1.4. Emergency telephone number**

Emergency Telephone Number 44 1628-631913

Emergency telephone §45 - (EC)1272/2008	
<b>Europe</b>	112
<b>Austria</b>	Poison Information Center (AT): +43-(0)1-406 43 43
<b>Belgium</b>	Poison Center (BE): +32 70 245 245
<b>Denmark</b>	Poison Control Hotline (DK): +45 82 12 12 12
<b>Finland</b>	Poison Information Centre (FI): +358 9 471 977
<b>France</b>	ORFILA (FR): + 01 45 42 59 59
<b>Germany</b>	Poison Center Berlin (DE): +49 030 30686 790 (24 h service, Advice in German and English)
<b>Ireland</b>	National Poisons Information Centre (IE): +353 1 8379964
<b>Italy</b>	Poison Center, Milan (IT): +39 02 6610 1029
<b>Netherlands</b>	National Poisons Information Center (NL): +31 30 274 88 88 (NB: this service is only available to health professionals)
<b>Norway</b>	Poisons Information (NO): + 47 22 591300
<b>Poland</b>	Poison Control and Information Centre, Warsaw (PL): +48 22 619 66 54; +48 22 619 08 97
<b>Portugal</b>	Poison Information Center (PT): +351 21 330 3284
<b>Spain</b>	Poison Information Service (ES): +34 91 562 04 20
<b>Sweden</b>	Poisons Information Center (SV): +46 8 33 12 31
<b>Switzerland</b>	Poison Center (CH): Tel 145: +41 44 251 51 51
<b>United Kingdom</b>	NHS Direct (UK): +44 0845 46 47

## Section 2: Hazards Identification

**2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Skin corrosion/irritation	Category 2 -(H315)
Serious eye damage/eye irritation	Category 2 -(H319)

**2.2. Label elements****Signal word****Warning****Hazard Statements**

H315 - Causes skin irritation

H319 - Causes serious eye irritation

**Precautionary Statements - EU (§28, 1272/2008)**

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear protective gloves and eye/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  
 P501 - Dispose of contents/container to an approved waste disposal plant

### 2.3. Other hazards

No information available

## Section 3: Composition/Information

### 3.1 Substances

Chemical Name	EC No	CAS-No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Reg. No.
Lubricating greases A complex combination of hydrocarbons having carbon numbers predominantly in the range of C12 through C50. may contain organic salts of alkali metals, alkaline earth metals, etc.	278-011-7	74869-21-9	> 60	No data available	No data available
Copper	231-159-6	7440-50-8	5-10	Eye Irrit. 2 (H319) Skin Irrit. 2 (H315)	01-2119480154-42
Molybdenum (IV) sulfide	215-263-9	1317-33-5	1-3	No data available	EXEMPT Article 2 (7)(B)

**Full text of H- and EUH-phrases: see section 16**

#### Note

The producer of "74869-21-9" declares that it contains less than 3% DMSO extractable material by IP-346 The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346. This note applies only to certain complex oil derived substances in Annex I

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## Section 4: First aid measures

### 4.1. Description of first aid measures

<b>General advice</b>	Get medical attention immediately if symptoms occur. In the case of skin irritation or allergic reactions see a physician. Remove and isolate contaminated clothing and shoes.
<b>Inhalation</b>	Remove to fresh air.
<b>Skin contact</b>	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

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

**Symptoms** No information available.

#### **4.3. Indication of any immediate medical attention and special treatment needed**

**Note to physicians** 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.

**Unsuitable extinguishing media** No information available.

#### **5.2. Special hazards arising from the substance or mixture**

##### **Specific hazards arising from the chemical**

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

#### **5.3. Advice for firefighters**

##### **Special protective equipment for fire-fighters**

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

### **Section 6: Accidental release measures**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Ensure adequate ventilation.

**For emergency responders** Use personal protection recommended in Section 8.

#### **6.2. Environmental precautions**

**Environmental precautions** Should not be released into the environment. See Section 12 for additional Ecological Information.

#### **6.3. Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Take up mechanically, placing in appropriate containers for disposal.

#### **6.4. Reference to other sections**

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## Section 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

**Advice on safe handling** Ensure adequate ventilation.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place.

### 7.3. Specific end use(s)

**Risk Management Methods (RMM)** The information required is contained in this Material Safety Data Sheet.

## Section 8: Exposure control/personal protection equipment

### 8.1. Control parameters

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Chemical Name	EU	United Kingdom	France	Spain	Germany
Copper 7440-50-8	-	TWA: 1 mg/m <sup>3</sup> TWA: 0.2 mg/m <sup>3</sup> STEL: 0.6 mg/m <sup>3</sup> STEL: 2 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup> STEL: 2 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>	-
Molybdenum (IV) sulfide 1317-33-5	-	STEL: 20 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>	-	TWA: 10 mg/m <sup>3</sup> TWA: 3 mg/m <sup>3</sup>	-
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
Copper 7440-50-8	TWA: 0.2 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup>	TWA: 1.0 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup>
Molybdenum (IV) sulfide 1317-33-5	-	TWA: 10 mg/m <sup>3</sup> TWA: 3 mg/m <sup>3</sup>	-	-	TWA: 10 mg/m <sup>3</sup>
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Copper 7440-50-8	STEL: 4 mg/m <sup>3</sup> STEL: 0.4 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup>	STEL: 0.2 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup> STEL: 0.1 mg/m <sup>3</sup> STEL: 1 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup> STEL: 0.6 mg/m <sup>3</sup> STEL: 2 mg/m <sup>3</sup>
Molybdenum (IV) sulfide 1317-33-5	STEL 20 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	STEL: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> STEL: 15 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup> TWA: 0.5 mg/m <sup>3</sup> STEL: 9 mg/m <sup>3</sup> STEL: 1.5 mg/m <sup>3</sup>
Chemical name	Romania	Ukraine TLVs	Sweden TLVs	Hungary	Turkey TLVs
Copper 7440-50-8	TWA: 0.5 mg/m <sup>3</sup> STEL: 0.2 mg/m <sup>3</sup> STEL: 1.5 mg/m <sup>3</sup>		LLV: 1 mg/m <sup>3</sup> LLV: 0.2 mg/m <sup>3</sup>	STEL: 4 mg/m <sup>3</sup> STEL: 0.4 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup>	
Molybdenum (IV) sulfide	TWA: 5 mg/m <sup>3</sup>			STEL: 60 mg/m <sup>3</sup>	

1317-33-5	STEL: 10 mg/m <sup>3</sup>		TWA: 15 mg/m <sup>3</sup>
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**Derived No Effect Level (DNEL)** No information available

**Predicted No Effect Concentration (PNEC)** No information available

**8.2. Exposure controls**

**Personal protective equipment**

- Eye/face protection** Tight sealing safety goggles.
- Hand Protection** Wear suitable gloves. Rubber gloves. Nitrile rubber.
- Skin and body protection** Wear suitable protective clothing.

**Environmental exposure controls** No information available.

**Section 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

**Physical state** Paste / Gel  
**Appearance** Copper Bronze  
**Odor** Petroleum  
**Color** No information available  
**Odor Threshold** No information available

<u>Property</u>	<u>Values</u>	<u>Remarks Method</u>
pH	7	None known
Melting / freezing point	> 138 °C	None known
Boiling point / boiling range	< 315 °C	None known
Flash Point	< 160 °C	Cleveland Open Cup (COC)
Evaporation Rate	<0.01	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability limit	No data available	
Lower flammability limit	No data available	
Vapor pressure	<0.01 kPa @ 20°C	None known
Vapor density	>5 (air = 1)	None known
Relative density	1.15	None known
Water Solubility	Insoluble in water	None known
Solubility(ies)	No data available	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
Kinematic viscosity	No data available	None known
Viscosity	No data available	None known

**9.2. Other information**

**Softening Point** No information available  
**Molecular Weight** No information available  
**VOC Content (%)** None  
**Liquid Density** No information available



<b>Bulk Density</b>	No information available
<b>Particle Size</b>	No information available
<b>Particle Size Distribution</b>	No information available

## Section 10: Stability and reactivity

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

Stable under normal conditions.

#### Explosion Data

Sensitivity to Mechanical Impact	None.
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Sensitivity to Static Discharge	None.
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### 10.3. Possibility of hazardous reactions

<b>Possibility of Hazardous Reactions</b>	None under normal processing.
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### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

None under normal use conditions.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

#### Information on likely routes of exposure

#### **Product Information**

<b>Inhalation</b>	None known.
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<b>Eye contact</b>	Causes serious eye irritation.
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<b>Skin contact</b>	Causes skin irritation.
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<b>Ingestion</b>	Not an expected route of exposure. May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
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#### Information on toxicological effects

<b>Symptoms</b>	May cause redness and tearing of the eyes.
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#### Numerical measures of toxicity

**Acute Toxicity**

**Unknown acute toxicity**

Chemical Name	LD50 Oral	LD50 Dermal	Inhalation LC50
Lubricating greases A complex combination of hydrocarbons having carbon numbers predominantly in the range of C12 through C50. may contain organic salts of alkali metals, alkaline earth metals, etc.	= 2280 mg/kg ( Rat )		
Molybdenum (IV) sulfide			> 2820 mg/m <sup>3</sup> ( Rat ) 4 h

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** Classification based on data available for ingredients. Irritating to skin.

**Serious eye damage/eye irritation** Classification based on data available for ingredients. Irritating to eyes.

**Respiratory or skin sensitization** None known.

**Germ cell mutagenicity** None known.

**Carcinogenicity** None known.

**Reproductive Toxicity** None known.

**STOT - single exposure** None known.

**STOT - repeated exposure** None known.

**Aspiration hazard** No information available.

**Section 12: Ecological information**

**12.1. Toxicity**

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Lubricating greases A complex combination of hydrocarbons having carbon	>1001 mg/l	96h LC50: > 2000 mg/L (Salmo gairdneri)	-	





numbers predominantly in the range of C12 through C50. may contain organic salts of alkali metals, alkaline earth metals, etc.				
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)

**12.2. Persistence and degradability**

**Persistence and Degradability** No information available.

**12.3. Bioaccumulative potential**

**Bioaccumulation** No information available.

**12.4. Mobility in soil**

**Mobility in soil** No information available.

**12.5. Results of PBT and vPvB assessment**

**PBT and vPvB assessment** No information available.

Chemical Name	PBT and vPvB assessment
Copper	The substance is not PBT / vPvB PBT assessment does not apply

**12.6. Other adverse effects**

**Other adverse effects** No information available.



### Section 13: Disposal considerations

#### 13.1. Waste treatment methods

<b>Waste from residues/unused products</b>	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
<b>Contaminated packaging</b>	No information available.

### Section 14: Transport information

#### IMDG

<b>14.1 UN Number</b>	Not regulated
<b>14.2 Proper Shipping Name</b>	NOT REGULATED
<b>14.3 Hazard Class</b>	Not regulated
<b>14.4 Packing Group</b>	Not regulated
<b>14.5 Marine Pollutant</b>	Not applicable
<b>14.6 Special Provisions</b>	None
<b>14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code</b>	No information available

#### RID

<b>14.1 UN-No.</b>	NOT REGULATED
<b>14.2 Proper Shipping Name</b>	NOT REGULATED
<b>14.3 Hazard Class</b>	NOT REGULATED
<b>14.4 Packing Group</b>	NOT REGULATED
<b>14.5 Environmental hazard</b>	Not applicable
<b>14.6 Special Provisions</b>	None

#### ADR

<b>14.1 UN-No.</b>	NOT REGULATED
<b>14.2 Proper Shipping Name</b>	NOT REGULATED
<b>14.3 Hazard Class</b>	NOT REGULATED
<b>14.4 Packing Group</b>	NOT REGULATED
<b>14.5 Environmental hazard</b>	Not applicable
<b>14.6 Special Provisions</b>	None

#### IATA

<b>14.1 UN Number</b>	Not regulated
<b>14.2 Proper Shipping Name</b>	NOT REGULATED
<b>14.3 Hazard Class</b>	Not regulated
<b>14.4 Packing Group</b>	Not regulated
<b>14.5 Environmental hazard</b>	Not applicable
<b>14.6 Special Provisions</b>	None

### Section 15: Regulatory information

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

Chemical Name	French RG number	Title
Copper 7440-50-8	RG 5, RG 14, RG 15, RG 15bis, RG 20bis	-

### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work .

### Authorizations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

### Persistent Organic Pollutants

Not applicable.

### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable.

### International Inventories

<b>TSCA</b>	Complies.
<b>DSL/NDSL</b>	Complies.
<b>EINECS/ELINCS</b>	Complies.
<b>ENCS</b>	Not determined.
<b>IECSC</b>	Contact supplier for inventory compliance status.
<b>KECL</b>	Not determined.
<b>PICCS</b>	Not determined.
<b>AICS</b>	Not determined.

### Legend

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

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

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

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

### 15.2. Chemical safety assessment

No information available.

## Section 16: Other Information

### Key or legend to abbreviations and acronyms used in the safety data sheet

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

H315 - Causes skin irritation

H319 - Causes serious eye irritation

**Legend**

SVHC: Substances of Very High Concern for Authorization:

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	-	Skin designation

**Key literature references and sources for data**[www.ChemADVISOR.com/](http://www.ChemADVISOR.com/)

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**Disclaimer**

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End of Safety Data Sheet