



# KOPR-KOTE® ARCTIC

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
Issue date: 11/13/2020 Revision date: 7/3/2024 Supersedes: 1/19/2023 Version: 2.3

### SECTION 1 Identification

#### 1.1. Product identifier

Product form : Mixture  
Trade name : KOPR-KOTE® ARCTIC

#### 1.2. Other means of identification

No additional information available

#### 1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Drill Collar Compound ,Tool Joint Compound  
Recommended use : Drill Collar Compound ,Tool Joint Compound

#### 1.4. Supplier's details

##### Manufacturer

Whitmore Manufacturing LLC  
930 Whitmore Drive  
Rockwall, Texas, 75087  
USA  
T 1.972.771.1000  
[Regulatory@whitmores.com](mailto:Regulatory@whitmores.com) - [www.jetlube.com](http://www.jetlube.com)

#### 1.5. Emergency phone number

Emergency number : For Chemical Emergency Call Ricardo Emergency Response 24hr/day 7days/week  
Within USA and Canada: +1.215.207.0061  
Outside USA and Canada: +44.1235.239670  
(collect calls accepted)

### SECTION 2 Hazard Identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Not classified

#### 2.2. Label elements

##### GHS US labeling

No labeling applicable

#### 2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

#### 2.4. Hazards not otherwise classified

No additional information available

#### 2.5. Unknown acute toxicity

No additional information available

### SECTION 3 Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

| Name                                                            | Product identifier  | %     | GHS US classification |
|-----------------------------------------------------------------|---------------------|-------|-----------------------|
| Distillates (petroleum), hydrotreated heavy naphthenic (Note L) | CAS-No.: 64742-52-5 | 80-90 | Not classified        |
| copper                                                          | CAS-No.: 7440-50-8  | 5-10  | Not classified        |
| molybdenum(IV) sulfide                                          | CAS-No.: 1317-33-5  | 0-1   | Not classified        |

Note L: The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide extract as measured by IP 346 ("Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions – Dimethyl sulphoxide extraction refractive index method" Institute of Petroleum, London), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.

Full text of hazard classes and H-statements : see section 16

# KOPR-KOTE® ARCTIC

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 4 First aid measures

#### 4.1. Description of necessary first-aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.  
First-aid measures after skin contact : Wash skin with plenty of water.  
First-aid measures after eye contact : Rinse eyes with water as a precaution.  
First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

#### 4.2. Most important symptoms/effects, acute and delayed

No additional information available

#### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment : Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

#### 5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### SECTION 6 Accidental release measures

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

##### For non-emergency personnel

Emergency procedures : Exercise caution. Spill area may be slippery.

##### For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Environmental precautions : Avoid release to the environment.

#### 6.2. Methods and materials for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

For further information refer to section 13

### SECTION 7 Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions : Store in a well-ventilated place. Keep cool.

### SECTION 8 Exposure controls/personal protection

#### 8.1. Control parameters

##### copper (7440-50-8)

##### USA - ACGIH - Occupational Exposure Limits

|               |                                              |
|---------------|----------------------------------------------|
| ACGIH OEL TWA | 0.2 mg/m <sup>3</sup><br>1 mg/m <sup>3</sup> |
|---------------|----------------------------------------------|

##### molybdenum(IV) sulfide (1317-33-5)

##### USA - ACGIH - Occupational Exposure Limits

|            |                                      |
|------------|--------------------------------------|
| Local name | Molybdenum, soluble compounds, as Mo |
|------------|--------------------------------------|

# KOPR-KOTE® ARCTIC

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| molybdenum(IV) sulfide (1317-33-5) |                                                                                                   |
|------------------------------------|---------------------------------------------------------------------------------------------------|
| ACGIH OEL TWA                      | 3 mg/m <sup>3</sup> (Respirable fraction)<br>10 mg/m <sup>3</sup> (Inhalable fraction)            |
| Remark (ACGIH)                     | TLV® Basis: LRT irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans) |
| Regulatory reference               | ACGIH 2021                                                                                        |

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures, such as personal protective equipment

| <b>Materials for protective clothing:</b>                    |                                                 |                  |                 |             |
|--------------------------------------------------------------|-------------------------------------------------|------------------|-----------------|-------------|
| Wear protective clothing                                     |                                                 |                  |                 |             |
| <b>Hand protection:</b>                                      |                                                 |                  |                 |             |
| Neoprene or nitrile rubber gloves                            |                                                 |                  |                 |             |
| Type                                                         | Material                                        | Permeation       | Thickness (mm)  | Penetration |
| Disposable gloves                                            | Nitrile rubber (NBR),<br>Neoprene rubber (HNBR) | 2 (> 30 minutes) | 0.3 mm - 0.6 mm |             |
| <b>Eye protection:</b>                                       |                                                 |                  |                 |             |
| Wear eye protection                                          |                                                 |                  |                 |             |
| <b>Skin and body protection:</b>                             |                                                 |                  |                 |             |
| Wear suitable protective clothing                            |                                                 |                  |                 |             |
| <b>Respiratory protection:</b>                               |                                                 |                  |                 |             |
| No respiratory protection needed under normal use conditions |                                                 |                  |                 |             |

## SECTION 9 Physical and chemical properties

### 9.1. Basic physical and chemical properties

|                                                 |                       |
|-------------------------------------------------|-----------------------|
| Physical state                                  | : Solid               |
| Appearance                                      | : Paste.              |
| Color                                           | : Gray                |
| Odor                                            | : Mild odor           |
| Odor threshold                                  | : No data available   |
| pH                                              | : No data available   |
| Melting point                                   | : 149 °C              |
| Freezing point                                  | : No data available   |
| Boiling point                                   | : No data available   |
| Flash point                                     | : 160 °C              |
| Flammability (solid, gas)                       | : No data available   |
| Vapor pressure                                  | : No data available   |
| Relative vapor density at 20°C                  | : No data available   |
| Relative density                                | : No data available   |
| Solubility                                      | : Insoluble in water. |
| Partition coefficient n-octanol/water (Log Pow) | : No data available   |
| Auto-ignition temperature                       | : No data available   |
| Decomposition temperature                       | : No data available   |
| Viscosity, kinematic                            | : No data available   |
| Explosion limits                                | : No data available   |
| Particle characteristics                        | : No data available   |

# KOPR-KOTE® ARCTIC

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 9.2. Data relevant with regard to physical hazard classes (supplemental)

VOC content : < 0.1 %

## SECTION 10 Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11 Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

| copper (7440-50-8)    |                                                                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| LD50 oral rat         | > 2500 mg/kg body weight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Male, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rat       | > 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))         |
| LC50 Inhalation - Rat | > 5.11 mg/l (OECD 436: Acute inhalation toxicity-acute toxic class method, 4 h, Rat, Male / female, Experimental value, Inhalation) |

| molybdenum(IV) sulfide (1317-33-5) |                          |
|------------------------------------|--------------------------|
| LD50 oral rat                      | > 6000 mg/kg (Rat, Oral) |
| Skin corrosion/irritation          | : Not classified         |

| copper (7440-50-8) |                                     |
|--------------------|-------------------------------------|
| pH                 | No data available in the literature |

| molybdenum(IV) sulfide (1317-33-5) |              |
|------------------------------------|--------------|
| pH                                 | 5 – 8 (10 %) |

Serious eye damage/irritation : Not classified

| copper (7440-50-8) |                                     |
|--------------------|-------------------------------------|
| pH                 | No data available in the literature |

| molybdenum(IV) sulfide (1317-33-5) |              |
|------------------------------------|--------------|
| pH                                 | 5 – 8 (10 %) |

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

# KOPR-KOTE® ARCTIC

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

| copper (7440-50-8)   |                        |
|----------------------|------------------------|
| Viscosity, kinematic | Not applicable (solid) |

### SECTION 12 Ecological information

#### 12.1. Ecotoxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

| copper (7440-50-8)   |                                                                                                                                                   |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| LC50 - Fish [1]      | 810 µg/l (APHA, 96 h, Cyprinus carpio, Fresh water, Experimental value)                                                                           |
| EC50 - Crustacea [1] | 792 µg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect) |

#### molybdenum(IV) sulfide (1317-33-5)

|                                    |               |
|------------------------------------|---------------|
| LC50 - Other aquatic organisms [1] | > 12052 mg/kg |
| LOEC (acute)                       | 1507 mg/kg    |
| NOEC (acute)                       | 759 mg/kg     |

#### 12.2. Persistence and degradability

##### KOPR-KOTE® ARCTIC

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |
|-------------------------------|------------------------|

##### Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)

|                               |                    |
|-------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |
|-------------------------------|--------------------|

#### copper (7440-50-8)

|                               |                                   |
|-------------------------------|-----------------------------------|
| Persistence and degradability | Biodegradability: not applicable. |
| Chemical oxygen demand (COD)  | Not applicable                    |
| ThOD                          | Not applicable                    |

#### molybdenum(IV) sulfide (1317-33-5)

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |
| Chemical oxygen demand (COD)  | Not applicable         |
| ThOD                          | Not applicable         |
| BOD (% of ThOD)               | Not applicable         |

#### 12.3. Bioaccumulative potential

| copper (7440-50-8)        |                      |
|---------------------------|----------------------|
| Bioaccumulative potential | Not bioaccumulative. |

#### 12.4. Mobility in soil

| copper (7440-50-8) |                                                        |
|--------------------|--------------------------------------------------------|
| Ecology - soil     | No (test)data on mobility of the components available. |

#### molybdenum(IV) sulfide (1317-33-5)

|                |                        |
|----------------|------------------------|
| Ecology - soil | Adsorbs into the soil. |
|----------------|------------------------|

#### 12.5. Other adverse effects

Ozone : Not classified

Fluorinated greenhouse gases : No

# KOPR-KOTE® ARCTIC

## Safety Data Sheet




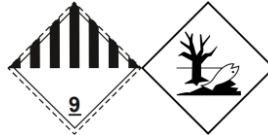
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 13 Disposal considerations

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

### SECTION 14 Transport information

In accordance with DOT / TDG / IMDG / IATA

| DOT                                                                                    | TDG                                                                                   | IMDG                                                                                                     | IATA                                                                                   |
|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| <b>14.1. UN number</b>                                                                 |                                                                                       |                                                                                                          |                                                                                        |
| UN3077                                                                                 | UN3077                                                                                | 3077                                                                                                     | 3077                                                                                   |
| <b>14.2. Proper Shipping Name</b>                                                      |                                                                                       |                                                                                                          |                                                                                        |
| Environmentally hazardous substances, solid, n.o.s. (CONTAINS : copper)                | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS : copper)                | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS : copper)                                   | Environmentally hazardous substance, solid, n.o.s. (CONTAINS : copper)                 |
| <b>Transport document description</b>                                                  |                                                                                       |                                                                                                          |                                                                                        |
| UN3077 Environmentally hazardous substances, solid, n.o.s. (CONTAINS : copper), 9, III | UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS : copper), 9, III | UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS : copper), 9, III, MARINE POLLUTANT | UN 3077 Environmentally hazardous substance, solid, n.o.s. (CONTAINS : copper), 9, III |
| <b>14.3. Transport hazard class(es)</b>                                                |                                                                                       |                                                                                                          |                                                                                        |
| 9                                                                                      | 9                                                                                     | 9                                                                                                        | 9                                                                                      |
|      |     |                       |    |
| <b>14.4. Packing group</b>                                                             |                                                                                       |                                                                                                          |                                                                                        |
| III                                                                                    | III                                                                                   | III                                                                                                      | III                                                                                    |
| <b>14.5. Environmental hazards</b>                                                     |                                                                                       |                                                                                                          |                                                                                        |
| Dangerous for the environment: Yes                                                     | Dangerous for the environment: Yes                                                    | Dangerous for the environment: Yes<br>Marine pollutant: Yes                                              | Dangerous for the environment: Yes                                                     |
| No supplementary information available                                                 |                                                                                       |                                                                                                          |                                                                                        |
| <b>14.6. Transport in bulk</b>                                                         |                                                                                       |                                                                                                          |                                                                                        |
| Not applicable                                                                         |                                                                                       |                                                                                                          |                                                                                        |
| <b>14.7. Special precautions for user</b>                                              |                                                                                       |                                                                                                          |                                                                                        |
| <b>DOT</b>                                                                             |                                                                                       |                                                                                                          |                                                                                        |
| UN-No. (DOT)                                                                           | : UN3077                                                                              |                                                                                                          |                                                                                        |

# KOPR-KOTE® ARCTIC

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### DOT Special Provisions (49 CFR 172.102)

: 8 - A hazardous substance that is not a hazardous waste may be shipped under the shipping description "Other regulated substances, liquid or solid, n.o.s.", as appropriate. In addition, for solid materials, special provision B54 applies.

146 - This description may be used for a material that poses a hazard to the environment but does not meet the definition for a hazardous waste or a hazardous substance, as defined in 171.8 of this subchapter, or any hazard class as defined in Part 173 of this subchapter, if it is designated as environmentally hazardous by the Competent Authority of the country of origin, transit or destination.

335 - Mixtures of solids that are not subject to this subchapter and environmentally hazardous liquids or solids may be classified as "Environmentally hazardous substances, solid, n.o.s.," UN3077 and may be transported under this entry, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Each transport unit must be leak-proof when used as bulk packaging.

384 - For transportation by motor vehicle, substances meeting the conditions for high viscosity flammable liquids as prescribed in §173.121(b)(1)(i), (b)(1)(ii), and (b)(1)(iv) of this subchapter, may be reassigned to Packing Group III under the following conditions:

A112 - Notwithstanding the quantity limits shown in Column (9A) and (9B) for this entry, the following IBCs are authorized for transportation aboard passenger and cargo-only aircraft. Each IBC may not exceed a maximum net quantity of 1,000 kg:

a. Metal: 11A, 11B, 11N, 21A, 21B and 21N

b. Rigid plastics: 11H1, 11H2, 21H1 and 21H2

c. Composite with plastic inner receptacle: 11HZ1, 11HZ2, 21HZ1 and 21HZ2

d. Fiberboard: 11G

e. Wooden: 11C, 11D and 11F (with inner liners)

f. Flexible: 13H2, 13H3, 13H4, 13H5, 13L2, 13L3, 13L4, 13M1 and 13M2 (flexible IBCs must be sift-proof and water resistant or must be fitted with a sift-proof and water resistant liner).

B54 - Open-top, sift-proof rail cars are also authorized.

B120 - The use of flexible bulk containers conforming to the requirements in subpart R and subpart S of part 178 of this subchapter is permitted.

IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2).

IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner.

N20 - A 5M1 multi-wall paper bag is authorized if transported in a closed transport vehicle.

N91 - The use of a non specification sift-proof, non-bulk, metal can with or without lid, or a non specification sift-proof, non-bulk fiber drum, with or without lid is authorized when transporting coal tar pitch compounds by motor vehicle or rail freight. The fiber drum must be fabricated with a three ply wall, as a minimum. The coal tar pitch compound must be in a solid mass during transportation.

T1 - 1.5 178.274(d)(2) Normal..... 178.275(d)(2)

TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.

DOT Packaging Exceptions (49 CFR 173.xxx)

: 155

DOT Packaging Non Bulk (49 CFR 173.xxx)

: 213

DOT Packaging Bulk (49 CFR 173.xxx)

: 240

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)

: No Limit

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)

: No Limit

DOT Vessel Stowage Location

: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

**TDG**

UN-No. (TDG)

: UN3077

# KOPR-KOTE® ARCTIC

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

|                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TDG Special Provisions                       | : 16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the danger or dangers posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A). The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3).<br>(2) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical name:<br>(a) UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S.;<br>(b) UN1851, MEDICINE, LIQUID, TOXIC, N.O.S.;<br>(c) UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S.;<br>(d) UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S.; or<br>(e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S.<br>(3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment:<br>(a) UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or<br>(b) UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS, 99 - (1) Mixtures of solids that are not dangerous goods and liquids or solids that are UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. or UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. may be offered for transport, handled or transported as UN3077 if there is no visible liquid when the dangerous goods are loaded into a means of containment and during transport.<br>(2) These Regulations, except for Parts 1 and 2, do not apply to the offering for transport, handling or transport of less than 450 kg of UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. or less than 450 L of UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. on a road vehicle or a railway vehicle. The dangerous goods must be contained in one or more small means of containment designed, constructed, filled, closed, secured and maintained so that under normal conditions of transport, including handling, there will be no release of the dangerous goods that could endanger public safety. |
| Explosive Limit and Limited Quantity Index   | : 5 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Excepted quantities (TDG)                    | : E1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Emergency Response Guide (ERG) Number        | : 171                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>IMDG</b>                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Special provision (IMDG)                     | : 274, 335, 966, 967, 969                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Limited quantities (IMDG)                    | : 5 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Excepted quantities (IMDG)                   | : E1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Packing instructions (IMDG)                  | : LP02, P002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Packing provisions (IMDG)                    | : PP12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| IBC packing instructions (IMDG)              | : IBC08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| IBC special provisions (IMDG)                | : B3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tank instructions (IMDG)                     | : BK1, BK2, BK3, T1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Tank special provisions (IMDG)               | : TP33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| EmS-No. (Fire)                               | : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| EmS-No. (Spillage)                           | : S-F - SPILLAGE SCHEDULE Foxtrot - WATER-SOLUBLE MARINE POLLUTANTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Stowage category (IMDG)                      | : A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Stowage and handling (IMDG)                  | : SW23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>IATA</b>                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Special provision (IATA)                     | : A97, A158, A179, A197, A215                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| PCA Excepted quantities (IATA)               | : E1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| PCA Limited quantities (IATA)                | : Y956                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| PCA limited quantity max net quantity (IATA) | : 30kgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| PCA packing instructions (IATA)              | : 956                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PCA max net quantity (IATA)                  | : 400kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| CAO packing instructions (IATA)              | : 956                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| CAO max net quantity (IATA)                  | : 400kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |



# KOPR-KOTE® ARCTIC

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

ERG code (IATA)

: 9L

### SECTION 15 Regulatory information

#### 15.1. Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

#### 15.2. International regulations

##### CANADA

###### Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)

Listed on the Canadian DSL (Domestic Substances List)

###### copper (7440-50-8)

Listed on the Canadian DSL (Domestic Substances List)

###### molybdenum(IV) sulfide (1317-33-5)

Listed on the Canadian DSL (Domestic Substances List)

##### EU-Regulations

###### Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

###### copper (7440-50-8)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

###### molybdenum(IV) sulfide (1317-33-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

##### National regulations

###### Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on KECI (Korean Existing Chemicals Inventory)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

###### copper (7440-50-8)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on KECI (Korean Existing Chemicals Inventory)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

###### molybdenum(IV) sulfide (1317-33-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on KECI (Korean Existing Chemicals Inventory)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

# KOPR-KOTE® ARCTIC

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 15.3. State regulations



#### WARNING:

This product can expose you to Quartz, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

| Component                                                     | State or local regulations                                                                                                                            |
|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| calcium sulfate(7778-18-9)                                    | U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List |
| graphite(7782-42-5)                                           | U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List |
| talc(14807-96-6)                                              | U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List |
| molybdenum(IV) sulfide(1317-33-5)                             | U.S. - Massachusetts - Right To Know List; U.S. - New York City - Right to Know Hazardous Substances List                                             |
| quartz, 1%≤conc respirable crystalline silica<10%(14808-60-7) | U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List |
| Chalk(1317-65-3)                                              | U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List |

### SECTION 16 Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.