



Conforms to Regulation (EC) No. 1907/2006 - United Kingdom (UK)

SAFETY DATA SHEET Kopr-Kote Anti Seize

Identification of the substance or preparation

Product Name: KOPR-KOTE
Use of the substance/preparation: Lubricant grease (petroleum based)
Company/undertaking identification
Manufacturer: Jet-Lube, Inc.
4849 Homestead Rd., Suite 232
Houston, TX 77028
Email: doldiges@jetlube.com

Australian Contact:

Xtex Pty. Ltd
ABN 40 121 722 236
80 Daly Street
Ascot, WA 6104

1300-00-9839 phone

0437-272-490 mobile

Emergency telephone number:

NHS Direct in the UK
Emergency number: 0845 4647

2. Hazards identification

The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification: R50/53
Physical/chemical hazards: Not applicable
Human health hazards: Not applicable
Environmental hazards: Very toxic to aquatic organisms.

See section 11 for more detailed information on health effects and symptoms.

3. Composition /information on ingredients

Substance/preparation:		Preparation			
Ingredient name	CAS Number	EC Number	%	Classification	
Lubricating grease (synthetic base - see below)	74869-21-9	278-011-7	50 - 70	Not classified	
graphite, natural	7782-42-5	231-95-3	10 - 15	Not classified	
Calcium Carbonate	1317-65-3	215-279-6	5 - 10	Not classified	
Copper	7440-50-8	231-159-6	5 - 10	N; R50/53	
talc, not containing asbestiform fibers	14807-96-6	238-877-9	1 - 5	Not classified	
potassium aluminum silicates	12001-26-2		1 - 5	Not classified	
Molybdenum disulfide	1317-33-5	215-263-9	1 - 5	Not classified	

3a. Lubricating Grease Composition /information on ingredients

Substance/preparation:		Preparation			
Ingredient name	CAS Number	EC Number	%	Classification	
Naphthenic Distillates	64742-52-5	255-155-0	68-84	Not classified	
Hydrotreated residual Oils	64742-57-0	265-101-6	10-20	Not classified	
Aluminum, benzoate C16-18-fatty acid complex	94166-87-7	303-385-6	5-10	Not classified	
polyisobutylene	9003-29-6	Polymer	1 -2	Not classified	

The Petroleum Oils and additives do not require carcinogenic listing.

Eye contact: No known significant effects or critical hazards.

First aid measures

Inhalation:

Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Person providing aid to give mouth-to-mouth resuscitation should use caution as inhalation or contact with product may occur. Obtain medical attention if symptoms occur. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Ingestion:

Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting could cause suffocation. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Obtain medical attention if symptoms occur. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Skin contact:

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Obtain medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Eye contact:

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

Extinguishing media:

Use an extinguishing agent suitable for the surrounding fire.

Special exposures hazards:

No specific hazard.

Hazardous thermal decomposition products:

These products are carbon oxides (CO, CO₂), sulphur oxides (SO₂, SO₃, etc.). Some metallic oxides.

Special protective equipment for fire-fighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions: Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.
Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Methods for cleaning up: If emergency personnel are unavailable, contain spilled material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dyke spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

7. Handling and storage

Handling: Wash thoroughly after handling.
Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

Packaging materials

Recommended: Use original container.

Specific uses: Not available.

8. Exposure controls/personal protection

Ingredient Name:	Occupational exposure limits
Graphite, natural As dust	EH40-WEL (United Kingdom (UK), 1/2005) TWA: 10 mg/m ³ 8 hour/hours. Form: Inhalable fraction STEL: 4 mg/m ³ 15 minute. Form: Respirable fraction
Calcium carbonate As dust	EH40-WEL (United Kingdom (UK), 9/2006) TWA: 10 mg/m ³ 65534 times per shift, 8 hour/hours. Form: Inhalable fraction STEL: 4 mg/m ³ 65534 times per shift, 15 minute/minutes. Form: Respirable fraction
Copper As dust	EH40-WEL (United Kingdom (UK), 9/2006). Notes: As Cu TWA: 1 mg/m ³ 65534 times per shift, 8 hour/hours. STEL: 2 mg/m ³ 65534 times per shift, 15 minute/minutes
Talc As dust	EH40-WEL (United Kingdom (UK), 9/2006) TWA: 1 mg/m ³ 65534 times per shift, 8 hour/hours. Form: Respirable fraction
Mica As dust	EH40-WEL (United Kingdom (UK), 9/2006) TWA: 10 mg/m ³ 65534 times per shift, 8 hour/hours. Form: Inhalable fraction TWA: 0.8 mg/m ³ 65534 times per shift, 8 hour/hours. Form: Respirable fraction
Molybdenum disulphide As Dust	EH40-WEL (United Kingdom (UK), 9/2006). Notes: As Mo TWA: 10 mg/m ³ 65534 times per shift, 8 hour/hours. STEL: 20 mg/m ³ 65534 times per shift, 15 minute/minutes

Exposure controls

Occupational exposure controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection: No respiratory equipment is required for normal use. In the case of extreme temperatures, a dry residue will result when the grease & oils burn off. Where workers may be exposed to the dust during removal of the film use of air-purifying respirators or dust masks is suggested.

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Skin protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

9. Physical and chemical properties

Physical state: Liquid (gel)
Color: Copper / bronze
Odor: Petroleum pungent
pH: Neutral
Boiling point: <316°C (600.8°F)
Melting point: 260°C (500°F)
Flash point: Open cup: 221°C (429.8°F)
Flammability (solid, gas): Not applicable
Explosive properties: Not applicable
Explosive limits: Lower: 0.9% Upper: 7%
Oxidizing properties: Not available
Vapor pressure: <0.01 kPa (<0.08 mm Hg) (at 20°C)
Specific gravity: Not available
Density: 1.15 kg/m³
Solubility: Insoluble in cold water, hot water
Octanol/water partition coefficient: Not available
Viscosity: Not available
Vapor density: >5 (Air = 1)
Evaporation rate (butyl acetate = 1): <0.01 compared with Butyl acetate
Auto-ignition temperature: >260°C (500°F)

10. Stability and reactivity

Stability: The product is stable
Conditions to avoid: Keep away from sources of ignition. Keep away from heat.
Materials to avoid: Not available

Hazardous Decomposition products: These products are carbon oxides (CO, CO₂), sulfur oxides (SO₂, SO₃), etc.). Some metallic oxides.
Hazardous polymerization: Not available

11. Toxicological information

Potential acute health effects

Inhalation: No known significant effects or critical hazards as high viscosity makes inhalation unlikely.
Ingestion: concerns.
Skin contact: No known significant effects or critical hazards.
Eye contact: No known significant effects or critical hazards.

Potential chronic health effects

Carcinogenicity: No known significant effects or critical hazards.
Mutagenicity: No known significant effects or critical hazards.
Reproductive toxicity: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation: No known significant effects or critical hazards.
Ingestion: No known significant effects or critical hazards.
Skin: No known significant effects or critical hazards.
Target organs: No known significant effects or critical hazards.

Other adverse effects: Not available

12. Ecological information

Ecotoxicity data

<u>Ingredient name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
KOPR-KOTE	mysisidopsis bahia (LC50)	96 hr/hrs	1980 mg/l
KOPR-KOTE	Acartia tonsa (EC50)	48 hr/hrs	>1000 mg/l
KOPR-KOTE	Skeletonema costatum (EC50)	72 hr/hrs	>1000 mg/l
KOPR-KOTE	Scaphthalmus maximus (EC50)	96 hr/hrs	>1500 mg/l
KOPR-KOTE	Corophium volutator (LC50)	10 days	1800 mg/l
Copper	Acartia tonsa (EC50)	48 hr/hrs	27 mg/l
	Skeletonema costatum (EC50)	72 hr/hrs	<1.0 mg/l
	Daphnia magna (EC50)	48 hr/hrs	0.055 mg/l
	Pimephales promelas (LC50)	96 hr/hrs	0.0094 mg/l
	Pimephales promelas (LC50)	96 hr/hrs	0.0103 mg/l
	Pimephales promelas (LC50)	96 hr/hrs	0.0278 mg/l
Graphite	Fish (LC50)	96 hr/hrs	>1800 mg/l
	Algae (EC50)	72 hr/hrs	>1000 mg/l
Lubricating grease, petroleum based	Fish (LC50)	96 hr/hrs	>1800 mg/l
	Algae (EC50) ,biomass	72 hr/hrs	641 mg/l
	Algae (EC50) ,growth rate	72 hr/hrs	>1000 mg/l

Other ecological information

Persistence/degradability:

<u>Ingredient name</u>	<u>BOD</u>	<u>COD</u>	<u>ThOD</u>
Lubricating grease, petroleum based	Not available	Not available	3.78 mg O ₂ /mg

<u>Ingredient name</u>	<u>Aquatic half-life</u>	<u>Photolysis</u>	<u>Biodegradability</u>
Lubricating grease, petroleum based	Not available	Not available	6.2 % biodegradation in 28 days (BODIS)

Other ecological information

Mobility: Not available
Other adverse effects: No known significant effects or critical hazards.

13. Disposal consideration

Methods of disposal: The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilt material
Hazardous waste: This product is regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

14. Transport information

Hazchem code 1Z

International transport regulations

<u>Regulatory information</u>	<u>UN Number</u>	<u>Proper shipping name</u>	<u>Class</u>	<u>Packing group</u>	<u>Label</u>	<u>Additional information</u>
US Dept of Transportation	UN3077	Tool Joint Compound				Approval CA2004080025
ADR/RID Class	UN3077	Environmentally hazardous substance, solid, n.o.s. (Copper)	9	III	9 Misc.	Hazard ID No. 90
ADNR Class	UN3077	Environmentally hazardous substance, solid, n.o.s. (Copper)	9	III	9 Misc.	Hazard ID No. 90
IMDG Class	UN3077	Environmentally hazardous substance, solid, n.o.s. (Copper)	9	III	9 Misc.	Hazard ID No. 90
IATA-DGR Class	UN3077	Environmentally hazardous substance, solid, n.o.s. (Copper)	9	III	9 Misc.	Hazard ID No. 90
Canada TDG	UN3077	Environmentally hazardous substance, solid, n.o.s. (Copper)	9	III	9 Misc.	Hazard ID No. 90
Australia ADG Code	UN3077	Environmentally hazardous substance, solid, n.o.s. (Copper)	9	III	9 Misc.	Reference SP-AU01

15. Regulatory information

Poison Schedule Not scheduled
EU Regulations
Risk Phrases: R50/53 - Very toxic to aquatic organisms.
Safety Phrases: S61 - Avoid release to the environment.
Product use: Classification and labeling have been performed according to EU Directives 67/548/EEC and 1999/45/EC

Other EU regulations

Additional warning phrases:
Restrictions on the marketing

Safety data sheet available for professional user on request.
Not applicable.

National regulations United Kingdom (UK)

COSHH:

The use of this chemical product must be in compliance with provisions included in COSHH (1999) and COSHH

US Regulations:

SARA 313 (40 CFR Part 372):

SARA 311/312:

Canadian Regulations:

TSCA: All components are listed. (See Section 3).

Contains metallic copper

NONE

TSCA 12B Components: None

CERCLA: Nonhazardous **RCRA Hazard class:** Nonhazardous

OZONE DEPLETING CHEMICALS: None

WHMIS: Not controlled.

DSL: All components are listed. (See 3 and 3a)

16. Other information

Full text of R phrases referred to in sections 2 and 3 - United Kingdom (UK):
referred to in sections 2 and 3 -

R50 - Very toxic to aquatic organisms.

N - Dangerous for the environment.

History

Date of printing:

01-August 2010

Date of issue:

01-August 2010

Date of previous issue:

No previous validation

Version:

1

Prepared by:



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Notice to reader:

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