MARINE-KOPR ™ COPPER ANTI-SEIZE

DESCRIPTION

MARINE-KOPR™ Copper Anti-Seize Compound is manufactured to exacting marine specifications and contains micro-sized copper flake and graphite in a highly water resistant aluminum complex base grease. MARINE-KOPR is fortified with anti-oxidants and corrosion inhibitors to ensure extra protection in extreme marine conditions.

MARINE-KOPR is recommended on all marine threaded and flanged connections to prevent galling, seizure and heat welding, and to reduce torque requirements. Prevents rust and corrosion over broad temperature ranges.

- Lead Free
- Service rating: -65°F (-54°C) to 1800°F (982°C)
- · Prevents rust/corrosion
- Lowers friction
- Will not run, drip, settle
- Color Bronze

APPLICATIONS

Threaded Fasteners Flange Faces Gaskets Flanged Connections Keyways

PRODUCT CHARACTERISTICS

Color Bronze
Penetration (ASTM D-217) 285 - 315
Density (Ib/gal) 8.9
Specific Gravity 1.07

Flash Point (ASTM D-92) >430°F (221°C)

Shell 4-Ball (ASTM D-2596)

Weld Point, kg 315 Load Wear Index 54.24 Wear Scar (ASTM D-2266) 1.025

Dropping Point (ASTM D-566) 450°F (232°C)
Thickener Type Aluminum Complex

Base Oil Type Petroleum

Copper Strip Corrosion 1B

(ASTM D-4048)

Water Spray Off Resistance <40%

(ASTM D-4049)

VOC (EPA 624) None

Shelf Life: Minimum two years from manufacture date.

PACKAGING

Code No.	Container Size	Container		
09702	½ lb.	Brush Top can		
09704	1 lb.	Brush Top can		

LIMITED WARRANTY

Jet-Lube, Inc. makes the Limited Express Warranty that at the date of delivery, this product shall be free from defects in Jet-Lube, Inc. materials and workmanship.

This Limited Express Warranty is expressly in lieu of any other express or implied warranties, including any implied warranty of merchantability or fitness for a particular purpose, and of any other obligation on the part of Jet-Lube, Inc.

The sole remedy for breach of the Limited Express Warranty shall be the refund of the purchase price. All other liability is negated and disclaimed, and Jet-Lube, Inc. shall not be liable for incidental or consequential damages.

CORPORATE LOCATIONS

Houston, Texas-World Headquarters

Maidenhead, England

Edmonton, Canada

JET-LUBE, INC.

MATERIAL SAFETY DATA SHEET

Product Name: MARINE KOPRTM

Chemical Family: Petroleum based lubricating anti-seize Anti-seize/anti-gall coating for threaded fasteners and sliding applications.

Manufacturer/Supplier: JET-LUBE, INC. Address: 4849 Homestead Rd., Ste. #200

Houston, TX, 77028 USA Phone: 713-674-7617 **Emergency Phone:** 713-674-7617 **Fax:** 713-678-4604

Chemtrec 24 hours (USA): 800-424-9300

	Hazardous Components	CAS No.	Wt%	OSHA PEL	ACGIH TLV	of Exposure
	Petroleum oil	64742525/64742014	60-100	Oil mist	N/A	STEL: 10mg/M ³
Π	Nonhazardous Blend	1314132/14807966 1317653/13463677 7782425	10-30	UN	UN	STEL: UN
	Copper Powder	7440508	1-5	N/A	1mg/M³	STEL: 2mg/M ³
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Main Hazards-Health Effects

Eyes: May cause irritation. Inhalation: Viscous nature may block breathing passages if inhaled. Ingestion: May cause diarrhea. Skin: Possible rash for persons with persensitivity.

Eyes: Flush with water until all residual material is gone. If irritation persists, seek medical help. Inhalation: Clear air passage. If respiratory difficulty continues, seek medical help. Ingestion: Wash out mouth immediately. Consult physician. Skin: Wash thoroughly with hand cleanser, followed by soap & water. Contaminated clothing should be dry cleaned before reuse.

Extinguishing Media: Foam, dry powder, Halon®, carbon dioxide, sand, earth & water mist. Unsuitable Extinguishing Media: Water jet. Protective Equipment for Fire fighting: Self-contained breathing apparatus.

Personal Precautions: Wear gloves & protective overalls. Environmental Precautions: Do not allow it to enter drains. Spillage: Scrape up bulk, then wipe up remainder with cloth. To prevent walking hazard, pick up remaining residue with diatomaceous earth.

Handling: No special handling precautions necessary. Storage: Do not store at elevated temperatures.

Respiratory Protection: None needed. Hand Protection: Protective gloves for hypersensitive persons. Eye Protection: Glasses, if applied to parts in motion. **Body Protection:** Overalls.

Color: Bronze Odor: Petroleum pH: Neutral Boiling Range/Point °F (°C): <600 (316) Physical State: Semisolid paste Melting Point °F (°C): 450 (232) Flash Point (COC) °F (°C): 430 (221) Autoignition Temperature °F (°C): >500 (260) Explosive Properties: LEL: 0.9% UEL: 7% Evaporation Rate (Butyl Acetate): <0.01 Partition Coefficient (Log Pow): N/A Density (g/cm³): 1.07 Flammability: Not flammable at ambient temperature. Vapor Pressure (kPa): <0.01 Percent Volatiles: Nil

OAR Value: N/A Oxidizing Properties: None Water Solubility: Nil Vapor Density: >5

Stability: Chemically stable under normal conditions. No photoreactive agents. Conditions to Avoid: Powerful sources of Materials to Avoid: Strong inorganic & organic acids, oxidizing & copper reactive agents. ignition & extreme temps. Hazardous Decomposition Products: Burning generates smoke, airborne soot, hydrocarbons & oxides of carbon, sulfur & nitrogen.

Acute Toxicity: Not known. Irritancy-Skin: Very mild. Skin Sensitization: Not known. Subacute/Sub-chronic Toxicity: Not Genotoxicity: None known. Chronic Toxicity: None known. California Prop 65: N/A Carcinogen: NTP: No IARC: No OSHA: No EC Class (67/548/EEC): No Allergens: None known.

LC-50: 1.98g/lt-(mysidopsis bahia) based on assessment from related products. LD-50: N/A

Residue mainly comprised of soot & mineral oxides.

Possible Effects: May gernerate oil fractions that could act as a marine pollutant, but is unlikely. Behavior: Relatively well behaved. Bioaccumulation potential nil. Environmental Fate: Highly unlikely to cause noteable contamination.

Product Disposal: Do not incinerate. Contact waste disposal company or local authority for advice. Container Disposal: Pails without liner-see Product Disposal section above. Pails with plastic liner-pail may only be disposed of via standard waste disposal services, recycled or reused. Liner-see Product Disposal section above.

Not classified as hazardous for transport. D.O.T.: Nonhazardous UN No.: N/A Air Transport (ICAO & IATA): N/A Sea Transport (IMO & IMDG): N/A Road & Rail Transport (ADR/RID): N/A

EC Annex 1 Classification: Not Applicable. R Phrases: R22—harmful if swallowed. Labeling Information: None needed S Phrases: None applicable, as known. Ozone Depleting Chemicals: Not applicable. TSCA: All components are listed. WHMIS (Canada): Not controlled. Canadian DSL: All components listed. SARA 311/312: None TSCA 12B Components: None 40 CFR Part 372 (SARA Section 313): This product contains copper CERCLA: Nonhazardous RCRA Hazard Class: Nonhazardous

SDS first issued. SDS data revised. New Jersey Right To Know: See Section II

Signature: \(\) Prepared by: Donald A. Oldiges Date Issued: June 27, 2008

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LEGEND

- IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY
- COMPOSITION INFORMATION ON INGREDIENTS
- HAZARDS IDENTIFICATION
- FIRST AID MEASURES
- FIRE FIGHTING MEASURES
- ACCIDENTAL RELEASE MEASURES
- HANDLING AND STORAGE
- EXPOSURE CONTROL/PERSONAL PROTECTION
- PHYSICAL AND CHEMICAL PROPERTIES
- STABILITY AND REACTIVITY
- TOXICOLOGICAL INFORMATION
- ECOLOGICAL INFORMATION WASTE DISPOSAL
- TRANSPORT INFORMATION REGULATORY INFORMATION
- OTHER INFORMATION

HMIS SYMBOL

HEALTH	1
FLAMMABILITY	1
REACTIVITY	0
PPI	В

NFPA SYMBOL

