

**MATERIAL SAFETY DATA SHEET**

DISTRIBUTED BY: THE EASTHILL GROUP dba/ THE EASTWOOD COMPANY 263 SHOEMAKER ROAD, POTTSTOWN, PA 19464

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PRODUCT DESCRIPTION: 25002 - KOPR-SHIELD

REVISION: 2

DATE PREPARED: April 11, 2006

DOCUMENT NUMBER: MSDS-0025

**SECTION 1 PRODUCT IDENTIFICATION & EMERGENCY INFORMATION**

**PRODUCT NAME:** \* KOPR-SHIELD®  
**GENERAL USE:** CONDUCTOR TERMINATION COMPOUND AND MIL A-907E ANTI-SIEZE LUBRICANT  
**PRODUCT DESCRIPTION:** ANTI-SIEZE AND CONDUCTIVE COMPOUND, PROTECTS AGAINST RUST AND CORROSION  
**GENERIC INGREDIENT:** PETROLEUM BASED LUBRICATING GREASE WITH COPPER FILLINGS

\* TM of JET-LUBE INC.

**EMERGENCY CONTACT: CHEM-TREC - 800-424-9300**  
 PRODUCT INFO: USA & CANADA: 800-345-1178; OUTSIDE USA: 610-323-2200

**SECTION 2 HAZARDOUS INGREDIENTS****OSHA HAZARDOUS INGREDIENTS**

<u>HAZARDOUS COMPONENTS</u>	<u>CAS #</u>	<u>% BY WT</u>	<u>ACGIH TLV</u>	<u>ACGIH TLV-C</u>	<u>ACGIH STEL</u>	<u>OSHA PEL</u>	<u>OTHER LIMITS OF EXPOSURE</u>
PETROLEUM OIL	64742-57-0 64742-62-7	40 – 60	N/A	N/A	10 mg/m <sup>3</sup>	OIL MIST TWA - 5 mg/m <sup>3</sup>	STEL: 10 mg/m <sup>3</sup>
COPPER POWDER	7440-50-8	30 – 40	N/A	N/A	10 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>	TEL: 2 mg/m <sup>3</sup>
ALKYLENE CARBONATE	108-32-7	0 – 1	N/A	N/A	N/A	TWA - 5 mg/m <sup>3</sup>	N/A
BENTONE	68953-58-2	2 – 5	N/A	N/A	N/A	N/A	N/A

N/A = NOT AVAILABLE

**SECTION 3 HEALTH INFORMATION & PROTECTION****CARCINOGENICITY**

**NTP?** NONE LISTED  
**IARC MONOGRAPHS?** NO EVALUATION  
**OSHA REGULATED?** NOT REGULATED

**ROUTES OF ENTRY**

**EYES?** YES  
**INGESTION?** YES  
**INHALATION?** NO  
**SKIN?** YES

**EMERGENCY OVERVIEW**

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**HEALTH HAZARDS**

**ACUTE:** REDNESS AND IRRITATION OF THE SKIN. REPEATED SKIN CONTACT FOR PERSONS HYPERSENSITIVE TO PETROLEUM PRODUCTS CAN CAUSE REDNESS AND IRRITATION OF SKIN

**CHRONIC:** NONE KNOWN

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

**EYES:** MAY CAUSE IRRITATION TO THE EYE(S)

**INGESTION:** NONE KNOWN

**INHALATION:** NONE KNOWN

**SKIN:** MAY IRRITATE THE SKIN

**POTENTIAL HEALTH EFFECTS**

**EYES CONTACT:** MAY CAUSE IRRITATION

**INGESTION:** MAY CAUSE DIARRHEA

**INHALATION:** VISCOUS NATURE MAY BLOCK BREATHING PASSAGES IF INHALED

**SKIN CONTACT:** MAY IRRITATE THE SKIN AFTER PROLONGED PERIODS OF CONTACT

**FIRST AID MEASURES**

**EYES CONTACT:** REMOVE CONTACT LENS AND RINSE THE AFFECTED EYE IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION

**INGESTION:** WASH OUT MOUTH IMMEDIATELY. SEEK MEDICAL ATTENTION IMMEDIATELY

**INHALATION:** CLEAR AIR PASSAGES. IF RESPIRATORY DIFFICULTY CONTINUES, SEEK MEDICAL ATTENTION IMMEDIATELY

**SKIN CONTACT:** WASH THOROUGHLY WITH HAND CLEANER, FOLLOWED BY SOAP AND WATER. ALL CONTAMINATED CLOTHING SHOULD BE DRY CLEANED BEFORE REUSE. IF REDNESS OR IRRITATION PERSISTS, SEEK MEDICAL ATTENTION

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE**

NONE KNOWN

**WORKPLACE EXPOSURE CONTROLS**

NONE REQUIRED

**ENGINEERING / VENTILATION CONTROLS**

NONE REQUIRED

**PERSONAL PROTECTION**

**EYE PROTECTION:** SAFETY GLASSES OR GOGGLES, IF APPLIED TO MOVING PARTS IN MOTION

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**HAND PROTECTION:** PROTECTIVE GLOVES FOR HYPERSENSITIVE PERSONS**RESPIRATORY  
PROTECTION:** NONE REQUIRED**SKIN PROTECTION:** GLOVES, OVERALLS, APRON AND/OR LONG SLEEVES CLOTHING TO PROTECT THE SKIN**VENTILATION:** NONE REQUIRED**WORK/HYGIENIC:****SECTION 4 FIRE & EXPLOSION HAZARDS****AUTO-IGNITION  
TEMPERATURE:** > 680° F (360° C)**EXPLOSION DATA:****EXPLOSIVE PROPERTY:** LEL: 0.9% UEL: 7.0%**EXTINGUISHING MEDIA:** FOAM, DRY POWDER, HALON, CARBON DIOXIDE, SAND, EARTH AND WATER MIST**UNSUITABLE  
EXTINGUISHING MEDIA:** WATER JET**GENERAL FIRE HAZARDS:****FIRE FIGHTING:** USE SELF-CONTAINED BREATHING APPARATUS**FLAMMABILITY  
CLASSIFICATION:****FLASH POINT:** > 560° F (293° C)**RATE OF BURN:****HAZARDOUS  
COMBUSTION PRODUCTS:****SECTION 5 SPILL CONTROL MEASURES****PERSONAL PROTECTION:** WEAR GLOVES & PROTECTIVE OVERALLS**CLEAN-UP PROCEDURES:** SCRAPE UP BULK. THEN WIPE UP REMAINDER WITH CLOTH AND PICK UP REMAINING RESIDUE WITH DIATOMACEOUS EARTH TO AVOID A WALKING HAZARD**NEUTRALIZING AGENT:** NONE**ENVIRONMENTAL  
PRECAUTIONS:** DO NOT ALLOW IT TO ENTER DRAINS**DISPOSAL:** DO NOT INCINERATE. CONTACT WASTE DISPOSAL COMPANY OR LOCAL AUTHORITY FOR ADVICE.**CONTAINER DISPOSAL:** PAIL WITHOUT PLASTIC LINER AND PLASTIC LINERS: DO NOT INCINERATE. CONTACT WASTE DISPOSAL COMPANY OR LOCAL AUTHORITY FOR ADVICE

PAILS WITH PLASTIC LINER: PAIL CAN BE DISPOSED OF VIA STANDARD WASTE DISPOSAL SERVICES, RECYCLED OR REUSED.

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**SECTION 6 HANDLING & STORAGE****HANDLING PROCEDURES:** NO HANDLING PRECAUTIONS NECESSARY**STORAGE PROCEDURES:** DO NOT STORE AT ELEVATED TEMPERATURES**LABELING:** NONE NEEDED**SECTION 7 TYPICAL PHYSICAL & CHEMICAL PROPERTIES****APPEARANCE:** SEMI-SOLID PASTE  
**BOILING POINT, °F (°C):** > 700° F (370° C)**AUTO-IGNITION TEMPERATURE:** > 680° F (360° C)  
**COLOR:** COPPER**FLAMMIBILITY:** NOT FLAMMABLE AT  
AMBIENT TEMPERATURES**EVAPORATIVE RATE**  
(Butyl Acetate): < 0.01  
**FREEZING POINT:** N/A**ODOR:** PETROLEUM  
**PERCENT, VOLATILE BY**  
**VOLUME:** NIL  
**PH:** NEUTRAL**MELTING POINT:** N/A  
**OXIDIZING PROPERTIES:** NONE  
N/A**PERCENT, SOLIDS BY WEIGHT:** N/A  
**PHYSICAL STATE:** N/A  
**SOLUBILITY IN ORGANIC**  
**SOLVENT:** N/A**SOLUBILITY IN WATER 68° F (20°**  
**C):** NIL**SOFTENING POINT (FINISH)** N/A**SOFTENING POINT (BASE**  
**METAL):** N/A**VAPOR DENSITY (AIR = 1):** > 5  
**VISCOSITY:** N/A**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** 1.20  
**VAPOR PRESSURE (mm Hg):** < 0.01  
**VOC CONTENT (lbs/gal):** NIL**SECTION 8 REACTIVITY DATA****CHEMICAL STABILITY:** CHEMICAL STABILITY UNDER NORMAL CONDITIONS. CONTAINS NO PHOTOREACTIVE AGENTS**CONDITIONS TO AVOID:** POWERFUL SOURCE OF IGNITION**INCOMPATIBLE**  
**MATERIALS:** STRONG INORGANIC AND ORGANIC ACIDS AND OXIDIZING AGENTS**HAZARDOUS**  
**DECOMPOSITION** BURNING GENERATES SMOKE, AIRBORNE SOOT, HYDROCARBONS AND OXIDES OF CARBON. RESIDUE  
**PRODUCTS:** MAINLY COMPRISED OF SOOT AND METAL OXIDES**HAZARDOUS**  
**POLYMERIZATION:** WILL NOT OCCUR**SECTION 9 REGULATORY INFORMATION****DEPARTMENT OF TRANSPORTATION (DOT)****PROPER SHIPPING NAME:** NOT REGULATED**I.A.T.A CLASSIFICATION**

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PROPER SHIPPING NAME: NOT REGULATED

**U.S. FEDERAL REGULATIONS**

TSCA: THE PRODUCT COMPONENTS ARE ON THE EPA TSCA INVENTORY.

CERCLA: THE PRODUCT IS NOT CLASSIFIED AS A HAZARDOUS SUBSTANCE UNDER REGULATIONS OF THE COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA), 40 CFR §302.RCRA HAZARD CLASS THE PRODUCT IS NOT CLASSIFIED AS A HAZARDOUS WASTE UNDER THE RESOURCE CONSERVATION AND RECOVERY ACT, OR ITS REGULATIONS, 40 CFR §261 et seq.

CLEAN AIR ACT: THE PRODUCT IS NOT PROCESSED WITH OR DOES NOT CONTAIN ANY CLASS I OR CLASS II OZONE DEPLETING SUBSTANCES.

**SARA TITLE III INFORMATION**

SECTION 302: N/A

SECTION 311 / 312: THE FOLLOWING COMPONENT(S) OF THIS PRODUCT IS SUBJECT TO THIS REQUIREMENT; NONE

SECTION 313: THE FOLLOWING COMPONENT(S) OF THIS PRODUCT IS SUBJECT TO THIS REQUIREMENT;

<u>HAZARDOUS COMPONENTS</u>	<u>CAS #</u>	<u>% BY WT</u>
COPPER POWDER	7440-66-6	30 - 40

**STATE REGULATIONS / RIGHT-TO-KNOW**CALIFORNIA  
PROPOSITION 65  
INFORMATION:THIS PRODUCT CONTAINS THE FOLLOWING SUBSTANCE(S) KNOWN TO BE ON THE CA PROP. 65 LIST;  
NONE**INTERNATIONAL**

WHMIS (CANADA): THE CHEMICAL(S) LISTED ARE CONSIDERED CONTROLLED PRODUCT(S); NONE

CANADIAN LABEL CLASSIFICATION REQUIRED ON CONTAINER(S): NONE

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**SECTION 10 NOTES**

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**TOXICOLOGICAL INFORMATION**

ACUTE TOXICITY: NOT KNOWN

ALLERGENS: NONE KNOWN

CHRONIC TOXICITY: NONE KNOWN

CARCINOGENS: NONE

GENOTOXICITY: NONE KNOWN

IRRITANCY - SKIN VERY MILD

EC ANNEX 1  
CLASSIFICATION: NOT APPLICABLEEC CLASSIFICATION  
(67 /548 EEC): NO

R PHRASES: R22 - HARMFUL IF SWALLOWED

S PHRASES: NONE APPLICABLE, AS KNOWN

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SKIN SENSITIZATION: NOT KNOWN

SUB-ACUTE / SUB-CHRONIC

TOXICITY: NOT KNOWN

LC-50: 1.98 g/l, (MYSIDOPSIS BAHIA)  
BASED ON ASSESSMENT FROM  
RELATED PRODUCTS.LD-50:  
N/A**ECOLOGICAL INFORMATION**

NO DATA AVAILABLE

**HAZARD RATING SYSTEM**

	HMIS	NPFA	KEY
HEALTH	1	1	4 = SEVERE
FLAMMABILITY	1	1	3 = SERIOUS
REACTIVITY	1	1	2 = MODERATE
			1 = SLIGHT
			0 = MINIMAL

**REVISION SUMMARY** 2**SUPERCEDES ISSUE DATE** March 31, 2003**SECTION 11 OTHER INFORMATION****ABBREVIATIONS**N/E = NOT ESTABLISHED  
N/A = NOT AVAILABLE**R PHRASES:** R22 - HARMFUL IF SWALLOWED  
**S PHRASES:** NONE APPLICABLE, AS KNOWN**T & B CATALOG****NUMBERS:** CP8-TB, CP16, CP128, 201-31879, 201-31879-1

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