

1. PRODUCT and COMPANY INFORMATION

PRODUCT	* KOPR-SHIELD [®] Anti-Seize Lubricant	EMERGENCY TELEPHONE NUMBER	
CATALOG NUMBERS	CP8-TB, CP16, CP128, 201-31879, 201-31879-1	CHEMTREC:	800-424-9300
MANUFACTURER / SUPPLIER	THOMAS & BETTS CORPORATION	TELEPHONE NUMBER FOR INFORMATION	901-252-5000 ext. 8324
ADDRESS	8155 T & B BOULEVARD, MEMPHIS, TENNESSEE 38125	DATE OF REVISION or PREPARATION	APRIL 27, 2012

2. COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	CAS #	% BY WT	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA PEL	OSHA STEL
PETROLEUM OIL	64742-57-0 64742-62-7	60 - 68	N/A	N/A	10 mg/m ³	OIL MIST TWA - 5 mg/m ³	STEL: 10 mg/m ³
COPPER POWDER	7440-50-8	25 - 35	N/A	N/A	10 mg/m ³	1 mg/m ³	STEL: 2 mg/m ³
ALKYLENE CARBONATE	108-32-7	0 - 1	N/A	N/A	N/A	TWA - 5 mg/m ³	N/A
BENTONE	68953-58-2	2 - 5	N/A	N/A	N/A	N/A	N/A
ZINC DITHIOCARBAMATE	15337-18-5	< 0.5	N/A	N/A	N/A	N/A	N/A

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW	NONE KNOWN
ROUTES OF EXPOSURE	SIGNS and SYMPTOMS
EYES:	MAY CAUSE IRRITATION TO THE EYE(S)
INGESTION:	MAY CAUSE DIARRHEA
INHALATION:	VISCOUS NATURE MAY BLOCK BREATHING PASSAGES IF INHALED
SKIN:	MAY IRRITATE THE SKIN AFTER PROLONGED PERIODS OF CONTACT

4. FIRST AID MEASURES

ROUTES OF ENTRY	FIRST AID INSTRUCTIONS
EYE 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

5. FIRE FIGHTING MEASURES

EXPLOSION DATA:	N/A
FLAMMABILITY:	LEL: 0.9 UEL: 7.0
EXTINGUISHING MEDIA:	FOAM, DRY POWDER, HALON [®] , CARBON DIOXIDE, SAND, EARTH AND WATER MIST
UNSUITABLE EXTINGUISHING MEDIA:	WATER JET
FIRE FIGHTING:	FULL PROTECTIVE EQUIPMENT, INCLUDING SELF-CONTAINED BREATHING APPARATUS, IS RECOMMENDED.
FLASH POINT:	> 560° F (293° C)
HAZARDOUS COMBUSTION PRODUCTS:	N/A

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTION:	WEAR NITRILE GLOVES & PROTECTIVE OVERALLS
CONTAINMENT 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:	DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. 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.

7. HANDLING and STORAGE

HANDLING PROCEDURES: NO SPECIAL HANDLING PRECAUTIONS NECESSARY
STORAGE PROCEDURES: DO NOT STORE AT ELEVATED TEMPERATURES

8. EXPOSURE CONTROL / PERSONAL PROTECTION

EXPOSURE CONTROLS: NONE REQUIRED

PERSONAL PROTECTION

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

9. PHYSICAL and CHEMICAL PROPERTIES

APPEARANCE: SEMI-SOLID PASTE	AUTO-IGNITION TEMPERATURE: > 680° F (360° C)
BOILING POINT: > 700° F (370° C)	COLOR: COPPER
DENSITY (lbs/gal): N/A	EVAPORATION RATE (BUTYL ACETATE = 1): < 0.01
FLAMMABILITY: NOT FLAMMABLE AT AMBIENT TEMPERATURES	ODOR: PETROLEUM
MELTING POINT: N/A	PERCENT, VOLATILE BY WEIGHT (%): N/A
PERCENT, SOLIDS BY WEIGHT (%): N/A	PHYSICAL STATE: SEMI-SOLID
PH: N/A	SPECIFIC GRAVITY (H₂O = 1): 1.2
SOLUBILITY IN WATER @ 68° F (20° C): NIL	VAPOR PRESSURE OF PRINCIPAL SOLVENT: ≤ 0.01
VAPOR DENSITY OF PRINCIPAL SOLVENT (AIR = 1): > 5	VOC CONTENT (lbs / gal): NIL
VISCOSITY: N/A	

10. STABILITY and REACTIVITY

CHEMICAL STABILITY: STABLE UNDER NORMAL CONDITIONS. NO PHOTOREACTIVE AGENTS.
CONDITIONS TO AVOID: POWERFUL SOURCE OF IGNITION AND EXTREME TEMPERATURES.
INCOMPATIBLE MATERIALS: STRONG INORGANIC AND ORGANIC ACIDS AND OXIDIZING AGENTS
HAZARDOUS DECOMPOSITION PRODUCTS: BURNING GENERATES SMOKE, AIRBORNE SOOT, HYDROCARBONS AND OXIDES OF CARBON. RESIDUE MAINLY COMPRISED OF SOOT AND METAL OXIDES
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: NOT KNOWN
CHRONIC TOXICITY: NONE KNOWN
GENOTOXICITY: NONE KNOWN

ALLERGENS: NONE KNOWN
IRRITANCY – SKIN: VERY MILD
EC CLASSIFICATION (67 /548 EEC): NO
S PHRASES: NONE APPLICABLE, AS KNOWN

EC ANNEX 1 CLASSIFICATION: NOT APPLICABLE
R PHRASES: R22 – HARMFUL IF SWALLOWED

SUB-ACUTE / SUB-CHRONIC TOXICITY: NOT KNOWN
LD-50: N/A

SKIN SENSITIZATION: NOT KNOWN
LC-50: 1.98 g/l, (mysidopsis bahia) BASED ON ASSESSMENT FROM RELATED PRODUCTS.

CARCINOGENICITY

NTP: NO
IARC MONOGRAPHS: NO
OSHA REGULATED: NO

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

12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION

POSSIBLE EFFECTS: MAY GENERATE OIL FRACTIONS AND RELEASE COPPER THAT COULD ACT AS A MARINE POLLUTANT IN EXTREME CASES, BUT IS HIGHLY UNLIKELY.
BEHAVIOR: RELATIVELY WELL BEHAVED. BIOACCUMULATION POTENTIAL NIL.
ENVIRONMENTAL FATE: HIGHLY UNLIKELY TO CAUSE NOTABLE CONTAMINATION. HEAVIER THAN WATER.

13. DISPOSAL CONSIDERATION

DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS AND DO NOT INCINERATE.

14. TRANSPORT INFORMATION

DEPARTMENT OF TRANSPORTATION (DOT)

PROPER SHIPPING NAME: NOT REGULATED

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA: ALL COMPONENTS ARE INCLUDED IN THE EPA TOXIC SUBSTANCES CONTROL ACT (TSCA) CHEMICAL SUBSTANCES INVENTORY.
CLEAN AIR ACT: THE FOLLOWING COMPONENTS OF THIS PRODUCT ARE REGULATED AS HAPs: *NONE*

SARA TITLE III INFORMATION

SECTION 302: THERE ARE NO COMPONENTS OF THIS PRODUCT WITH KNOWN CAS NUMBERS WHICH ARE ON THE 40 CFR PART 355 APPENDIX A LIST OF EXTREMELY HAZARDOUS SUBSTANCES.
SECTION 311 / 312: REQUIRES EMERGENCY PLANNING BASED ON *THRESHOLD PLANNING QUANTITIES* (TPQs), AND RELEASE REPORTING BASED ON *REPORTABLE QUANTITIES* (RQs) OF HAZARDOUS MATERIALS LISTED IN SECTION 2:
SECTION 313: THIS PRODUCT CONTAINS CHEMICAL COMPONENTS SUBJECT TO SECTION 313 REPORTING:

<u>CHEMICALS</u>	<u>CAS #</u>
COPPER POWDER	7440-50-8

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

EC ANNEX 1 CLASSIFICATION: NOT APPLICABLE – **R PHRASES:** R22 – HARMFUL IF SWALLOWED; **S PHRASES:** N/A
WHMIS (CANADA): THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL(S) LISTED AS CONTROLLED SUBSTANCES:

<u>CHEMICALS</u>	<u>CAS #</u>
ALKYLENE CARBONATE	108-32-7

LABELS: CANADIAN LABEL CLASSIFICATION REQUIRED ON CONTAINER(S): *D2B*

16. OTHER INFORMATION

HAZARD RATING SYSTEM:

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

REVISION SUMMARY 4
SUPERCEDES ISSUE DATE April 28, 2009

17. T&B CATALOG NUMBERS / PRODUCT NUMBERS

TO BE USED IF SECTION 1 DOES NOT HAVE SPACE TO LIST T&B CATALOG NUMBERS.

THE INFORMATION PRESENTED HEREIN HAS BEEN COMPILED FROM SOURCES CONSIDERED TO BE DEPENDABLE AND ACCURATE TO THE BEST OF THOMAS & BETTS CORPORATION KNOWLEDGE. THE INFORMATION RELATES TO THE SPECIFIC MATERIAL. IT MAY NOT BE VALID FOR THIS MATERIAL IF USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY HIMSELF AS TO THE SUITABILITY AND COMPLETENESS OF THIS INFORMATION FOR HIS OWN PARTICULAR USE.