

# SAFETY DATA SHEET

Document Number: SDS-00003

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product Identifier:

Product Name: Kopr-Shield®

Other means of identification:
Product Codes: See Section 17

Recommended Use: Lubrication, Greases and Release Products

Recommended Restrictions: No information available

Manufacturer:

Name: Thomas & Betts Corp.

Address: 8155 T&B Blvd

Memphis, TN 38125 USA

**Telephone:** 1-901-252-5000 x8234

URL Address: www.tnb.com

**Transportation Emergency:** Chemtrec U.S.: 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

## Classification

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

Skin Sensitization Category 1

### GHS Label elements, including precautionary statements

## **Emergency Overview**

Signal Word Warning

Hazard Statements

May cause an allergic skin reaction

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## **Precautionary Statements**

#### Prevention

- · Avoid breathing dust/fume/gas/mist/vapors/spray.
- · Contaminated work clothing must not be allowed out of the workplace.
- · Wear protective gloves.

#### Response

- IF ON SKIN: Wash with plenty of soap and water.
- If skin irritation or rash occurs: Get medical advice/attention.
- · Wash contaminated clothing before reuse.
- Specific treatment (See First Aid, Section 4)

#### Storage

None

#### Disposal

Dispose of contents/container to an approved waste disposal plant in accordance with local, state and federal regulations.

## Hazard Not Otherwise Classified (HNOC)

Not applicable

### Other information

Very toxic to aquatic life. Harmful to aquatic life with long lasting effects.

0% of the mixture consists of ingredient(s) of unknown toxicity.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Synonyms

THOMAS AND BETTS KOPR-SHIELD®

Chemical Name	CAS-No	Weight %	Trade secret
Lubricating greases A complex combination of hydrocarbons having carbon numbers predominantly in the range of C12 through C50. may contain organic salts of alkali metals, alkaline earth metals, etc.	74869-21-9	65-70	*
Copper	7440-50-8	30-35	*
Zinc, bis(dipentylcarbamodithioato-S,S')-, (T-4)-	15337-18-5	<1	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. FIRST AID MEASURES

### Description of necessary first-aid measures

General Advice Show this safety data sheet to the doctor in attendance.

**Eye Contact**Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing. If symptoms persist, call a physician.

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Skin Contact Wash skin with soap and water. If skin irritation persists, call a physician.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.

Ingestion Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an

unconscious person. Consult a physician if necessary

Protection of First-aiders

Use personal protective equipment.

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects No information available.

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

Notes to Physician Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Water spray jet

## Specific Hazards Arising from the Chemical

No information available.

**Explosion Data** 

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Personal Precautions

Use personal protective equipment. Keep people away from and upwind of spill/leak.

**Environmental Precautions** 

Environmental Precautions Do not allow material to contaminate ground water system. Do not flush into surface water

or sanitary sewer system. See Section 12 for additional Ecological Information. Avoid

release to the environment.

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

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Small spillage: Soak up with inert absorbent material. Pick up and transfer to properly

labeled containers. Large spillage: Dike far ahead of liquid spill for later disposal. Take up

mechanically and collect in suitable container for disposal.

#### 7. HANDLING AND STORAGE

## Precautions for safe handling

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Handling

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not breathe vapors or spray mist. In case of insufficient ventilation, wear suitable respiratory equipment. Use only in area provided with appropriate exhaust ventilation. Do not eat, drink or smoke when using this product.

### Conditions for safe storage, including any incompatibilities

Storage Keep out of the reach of children. Keep containers tightly closed in a dry, cool and

well-ventilated place.

Incompatible Products Acids. Oxidizing agents. Acetylene. Vinyl compounds.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Control parameters

#### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Copper 7440-50-8	TWA: 0.2 mg/m³ fume	TWA: 0.1 mg/m³ fume TWA: 1 mg/m³ dust and mist (vacated) TWA: 0.1 mg/m³ Cu dust, fume, mist	IDLH: 100 mg/m³ dust, fume and mist TWA: 1 mg/m³ dust and mist TWA: 0.1 mg/m³ fume

Immediately Dangerous to Life or Health. ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH:

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

### Appropriate engineering controls

Engineering Measures Where reasonably practicable this should be achieved by the use of local exhaust

ventilation and good general extraction. Ensure that eyewash stations and safety showers are close to the workstation location. Avoid exceeding of the given occupational exposure

limits (see Section 8).

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

Eye/Face Protection Sa

Skin and Body Protection Respiratory Protection Safety glasses with side-shields.

Protective gloves. Lightweight protective clothing.

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should

be worn.

Hygiene Measures When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area

and clothing. Keep away from food, drink and animal feeding stuffs. Wash hands before

breaks and immediately after handling the product.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical State Semi-fluid (gel) Appearance Copper

Odor Petroleum like Odor Threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks/ - Method</u>

pHNeutralNone knownMelting Point/RangeNONENone knownBoiling Point/Boiling Range> 315 °CNone knownFlash Point> 310 °CNone known

Evaporation rate No data available None known Flammability (solid, gas) No data available None known Flammability Limits in Air

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upper flammability limit No data available lower flammability limit No data available No data available None known Vapor Pressure **Vapor Density** No data available None known **Specific Gravity** 1.20 None known Water Solubility Insoluble in water. None known Solubility in other solvents Largely. None known Partition coefficient: n-octanol/waterNo data available None known **Autoignition Temperature** No data available None known **Decomposition Temperature** No data available None known No data available None known Viscosity

Flammable Properties Not flammable

Explosive Properties No data available Oxidizing Properties No data available

Other information

VOC Content (%) None

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available.

### **Chemical stability**

Stable under recommended storage conditions. Decomposes in contact with water.

### Possibility of hazardous reactions

None under normal processing.

### **Hazardous Polymerization**

Hazardous polymerization does not occur.

## Conditions to avoid

None known based on information supplied.

#### Incompatible materials

Acids. Oxidizing agents. Acetylene. Vinyl compounds.

### Hazardous decomposition products

Metal oxides.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Product Information** 

InhalationNo known hazard by inhalation.Eye ContactNo known hazard by eye contactSkin ContactNo known hazard in contact with skin.IngestionMay be harmful if swallowed.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
	CALLED TO THE PARTY OF THE PART		

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Lubricating greases	= 2280 mg/kg (Rat)	(40)	-
A complex combination of	CONTROL CONTRO		
hydrocarbons having carbon			
numbers predominantly in the range			
of C12 through C50, may contain			
organic salts of alkali metals,			
alkaline earth metals, etc.			

### Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

## Delayed and immediate effects and also chronic effects from short and long term exposure

Sensitization No information available.

Mutagenic Effects No information available.

Carcinogenicity Contains no ingredients above reportable quantities listed as a carcinogen.

Reproductive Toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration Hazard
No information available.
No information available.

## Numerical measures of toxicity - Product

Acute Toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document:

LD50 Oral 3266 mg/kg; Acute toxicity estimate

## 12. ECOLOGICAL INFORMATION

This product contains a chemical which is listed as a severe marine pollutant according to DOT.

### **Ecotoxicity**

Very toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Lubricating greases A complex combination of hydrocarbons having carbon numbers predominantly in the range of C12 through C50. may contain organic salts of alkali metals, alkaline earth metals, etc. 74869-21-9	>1001 mg/l	LC50 96 h: > 2000 mg/L (Salmo gairdneri)		
Copper 7440-50-8	EC50 96 h: 0.031 - 0.054 mg/L static (Pseudokirchneriella subcapitata) EC50 72 h: 0.0426 - 0.0535 mg/L static (Pseudokirchneriella subcapitata)	LC50 96 h: 0.0068 - 0.0156 mg/L (Pimephales promelas) LC50 96 h: < 0.3 mg/L static (Pimephales promelas) LC50 96 h: = 0.052 mg/L flow-through (Oncorhynchus mykiss) LC50 96 h: = 0.112 mg/L flow-through (Poecilia reticulata) LC50 96 h: = 0.2 mg/L flow-through (Pimephales promelas) LC50 96 h: = 0.3 mg/L semistatic (Cyprinus carpio) LC50 96 h: = 0.8 mg/L static (Cyprinus carpio) LC50 96 h: = 1.25 mg/L static (Lepomis macrochirus)		EC50 48 h: = 0.03 mg/L Static (Daphnia magna)

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Persistence and Degradability No information available.

Bioaccumulation No information available.

Other Adverse Effects

No information available.

### 13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Dispose of in accordance with federal, state, and local regulations

Contaminated Packaging Do not re-use empty containers.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Copper	Toxic
Zinc, bis(dipentylcarbamodithioato-S,S`)-, (T-4)-	Toxic

## 14. TRANSPORT INFORMATION

DOT

**UN-Number** UN3082

Proper shipping name Environmentally hazardous substances, liquid, n.o.s.

**Hazard Class** 

**Subsidiary Class** 

**Packing Group** III

**Marine Pollutant** This product contains a chemical which is listed as a severe marine pollutant according to

DOT.

Description UN3082, Environmentally hazardous substances, liquid, n.o.s.(Copper), 9, , III, Marine

Pollutant

**Emergency Response Guide** 

Number

171

TDG

UN3082 **UN-Number** 

**Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s.

**Hazard Class Packing Group** 

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Copper), 9,

III.Marine Pollutant

MEX

UN-Number UN3082

**Proper Shipping Name** Environmentally hazardous substances, liquid, n.o.s.

**Hazard Class Packing Group** 

Description UN3082 Environmentally hazardous substances, liquid, n.o.s.(Copper), 9, III

ICAO

**UN-Number** UN3082

Proper shipping name Environmentally hazardous substance, liquid, n.o.s.

**Hazard Class** 9 **Packing Group** III

Description UN3082, Environmentally hazardous substance, liquid, n.o.s.(Copper), 9, III

**UN-Number** UN3082

**Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s.

**Hazard Class** III **Packing Group ERG Code** 9L

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**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s.(Copper), 9, III

IMDG/IMO

UN-Number UN3082

Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.

Hazard Class 9
Packing Group III
EmS No. F-A, S-F

Description UN3082, Environmentally hazardous substance, liquid, n.o.s.(Copper), 9, III, Marine

Pollutant

RID

UN-Number UN3082

Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.

Hazard Class 9
Packing Group III
Classification Code M6

Description UN3082 Environmentally hazardous substance, liquid, n.o.s.(Copper), 9, III

ADR

UN-Number UN3082

Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.

Hazard Class 9
Packing Group III
Classification Code M6
Tunnel Restriction Code (E)

Description UN3082 Environmentally hazardous substance, liquid, n.o.s.(Copper), 9, III(E)

<u>ADN</u>

UN-No UN3082

Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.

Hazard Class 9
Packing Group III
Classification Code M6

Special Provisions 274, 335, 601

Description UN3082 Environmentally hazardous substance, liquid, n.o.s. (Copper), 9, III

Hazard Labels 9 Limited Quantity LQ7

### 15. REGULATORY INFORMATION

### International Inventories

#### Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

### U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Copper	7440-50-8	25-30	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

### Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

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Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Copper	31000 B 3 3 3 4 4 5 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6	X	X	
Zinc, bis(dipentylcarbamodithioato -S,S`)-, (T-4)-		Х		

## CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Copper	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

### U.S. State Regulations

## California Proposition 65

This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

"X" designates that the ingredients are listed on the state right to know list.

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Copper	X	X	X	X	X

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION				
NFPA	Health Hazard 2	Flammability 1	Instability 0	Physical and Chemical Hazards -
<u>HMIS</u>	Health Hazard 2	Flammability 1	Physical Hazard 0	Personal Protection X

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## 17. SUPPLIMENTRY INFORMATION FROM SECTION 1 - LIST OF PRODUCT CODES/CATALOG NUMBERS

CP8-TB, CP16, CP128, 201-31879, 201-31879-1

## General Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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