

SAFETY DATA SHEET

1. Identification

Product identifier Kopr-Shield

Other means of identification

SDS number SDS-00003

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

Recommended use Lubricants, Greases and Release Products None known.

Recommended restrictions

Manufacturer/Importer/Supplier/Distributor information

Company name ABB Installation Products Inc.

Address 860 Ridge Lake Blvd.

Memphis, TN 38120

US

Telephone 901-252-5000 ext.8324

E-mail Not available.

Emergency phone number INFOTRAC - 24 HOURS: 1-800-535-5053

+1 352-323-3500 (Outside USA)

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Not classified.

Environmental hazards Hazardous to the aquatic environment, acute Category 1

hazard

Hazardous to the aquatic environment, Category 2

long-term hazard

OSHA defined hazards Not classified.

Label elements

Hazard symbol None.
Signal word None.

Hazard statement The mixture does not meet the criteria for classification.

Precautionary statement

Prevention Observe good industrial hygiene practices.

Response Wash hands after handling.

Storage Store away from incompatible materials.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental informationVery toxic to aquatic life. Harmful to aquatic life with long lasting effects.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Lubricating greases: a complex	74869-21-9	65 - 70

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.

SDS US

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Copper	7440-50-8	25 - 30
Zinc bis(dipentyldithiocarbamate)	15337-18-5	<1

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Wash off with soap and water. Get medical attention if irritation develops and persists. Skin contact

Rinse with water. Get medical attention if irritation develops and persists. Eve contact

Rinse mouth. Get medical attention if symptoms occur. Ingestion Most important Direct contact with eyes may cause temporary irritation.

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

treatment needed

Treat symptomatically.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media Use extinguishing measures that are appropriate to local circumstances and the surrounding

environment.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

None known.

Special protective equipment and precautions for firefighters Firefighters should wear full protective clothing including self contained breathing apparatus. Wear suitable protective equipment.

Fire fighting equipment/instructions Use standard firefighting procedures and consider the hazards of other involved materials.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions. protective equipment and emergency procedures

Keep unnecessary personnel away. For personal protection, see section 8 of the SDS, Wear suitable protective clothing, gloves and eye/face protection.

Methods and materials for containment and cleaning up Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas. The product is immiscible with water and will sediment in water systems. Be aware of potential for surfaces to become slippery. Should not be released into the environment.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Environmental precautions

7. Handling and storage

Precautions for safe handling

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove contaminated clothing and wash before reuse. In case of insufficient ventilation, wear suitable respiratory equipment. Use only in area provided with appropriate exhaust ventilation. Be aware of potential for surfaces to become slippery. Do not eat, drink or smoke when using the product.

Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

SDS US Kopr-Shield 2/8 Revision date: 11-July-2024 Issue date: 15-January-2016

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants	(29 CFR 1910.1000)
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Components	Type	Value	Form
Copper (CAS 7440-50-8)	PEL	1 mg/m3	Dust and mist.
		0.1 mg/m3	Fume.
US. ACGIH Threshold Limit Value Components	es Type	Value	Form
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.
US. NIOSH: Pocket Guide to Cher	mical Hazards		
Components	Туре	Value	Form

Copper (CAS 7440-50-8) **TWA** 1 mg/m3 Dust and mist.

Biological limit values No biological exposure limits noted for the ingredient(s).

Exposure guidelines No exposure standards allocated. Occupational Exposure Limits are not relevant to the current

physical form of the product.

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields (or goggles). Eye/face protection

Skin protection

Wear appropriate chemical resistant gloves. Hand protection

Skin protection

Other Wear apron or protective clothing in case of contact. Use of protective coveralls and long sleeves

is recommended.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Wash hands before breaks

and immediately after handling the product.

9. Physical and chemical properties

Appearance

Physical state Semi-fluid (gel).

Form Gel. Color Copper. Petroleum. Odor Not available. **Odor threshold** pН Neutral

Melting point/freezing point NONE.

Initial boiling point and boiling > 599 °F (> 315 °C)

range

> 590.0 °F (> 310.0 °C) Flash point

Not available. **Evaporation rate** Not applicable. Flammability (solid, gas)

Upper/lower flammability or explosive limits

Not applicable. Flammability limit - lower

(%)

Flammability limit - upper

(%)

Not applicable.

Explosive limit - lower (%)

Not available. Not available.

Explosive limit - upper (%) Vapor pressure

Not available. Not available.

Vapor density Relative density

1.2

Solubility(ies)

Insoluble. Solubility (water) Solubility (solvents) Largely

Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperature

Not available. Not available. Not applicable.

Other information

Viscosity

Explosive properties Not explosive. **Oxidizing properties** Not oxidizing.

10. Stability and reactivity

Decomposition temperature

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. Decomposes in the presence of water. **Chemical stability**

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with

incompatible materials.

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

Hazardous decomposition

products

Metal oxides.

11. Toxicological information

Information on likely routes of exposure

Inhalation No adverse effects due to inhalation are expected. No adverse effects due to skin contact are expected. Skin contact Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

Product Species Test Results

Kopr-Shield (CAS Mixture)

Acute Oral

LD50 3266 mg/kg Acute toxicity estimate

Skin corrosion/irritation No adverse effects due to skin contact are expected. Direct contact with eyes may cause temporary irritation. Serious eye damage/eye

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

> SDS US 4/8

Kopr-Shield Revision date: 11-July-2024 Issue date: 15-January-2016 **Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed

NTP Report on Carcinogens

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

Not classified.

single exposure

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not an aspiration hazard.

Further information This product has no known adverse effect on human health.

12. Ecological information

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

Components Species Test Results

Copper (CAS 7440-50-8)

Aquatic Chronic

Other NOEC Juga plicifera 6 μg/l

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential The product is not expected to bioaccumulate.

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers retain product residue, follow label warnings even after

container is emptied.

14. Transport information

DOT

UN number UN3082

UN proper shipping name

Transport hazard class(es)

Environmentally hazardous substances, liquid, n.o.s. (Copper RQ = 16667 LBS)

Class 9
Subsidiary risk Label(s) 9
Packing group III

Environmental hazards

Marine pollutant Yes.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

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Special provisions 8, 146, 335, IB3, T4, TP1, TP29

Packaging exceptions 155 Packaging non bulk 203 Packaging bulk 241

IATA

UN3082 **UN** number

UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. (Copper)

Transport hazard class(es)

9 Class Subsidiary risk Packing group Ш **Environmental hazards** Yes. **ERG Code** 9L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number UN3082

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (COPPER) UN proper shipping name

Transport hazard class(es)

Class 9 Subsidiary risk Ш Packing group **Environmental hazards**

Marine pollutant YES. F-A. S-F **EmS**

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

US federal regulations This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not applicable.

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Copper (CAS 7440-50-8) Zinc bis(dipentyldithiocarbamate) (CAS 15337-18-5) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Nο

chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Copper	7440-50-8	25 - 30	
Zinc bis(dipentyldithiocarbamate)	15337-18-5	<1	

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Contains component(s) regulated under the Safe Drinking Water Act.

(SDWA)

SDS US

US state regulations

US. Massachusetts RTK - Substance List

Copper (CAS 7440-50-8)

US. New Jersey Worker and Community Right-to-Know Act

Copper (CAS 7440-50-8)

Zinc bis(dipentyldithiocarbamate) (CAS 15337-18-5)

US. Pennsylvania Worker and Community Right-to-Know Law

Copper (CAS 7440-50-8)

Zinc bis(dipentyldithiocarbamate) (CAS 15337-18-5)

US. Rhode Island RTK

Copper (CAS 7440-50-8)

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Copper (CAS 7440-50-8)

International Inventories

Country(s) or region

Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

^{*}A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

Taiwan Chemical Substance Inventory (TCSI)

Toxic Substances Control Act (TSCA) Inventory

16. Other information, including date of preparation or last revision

Inventory name

Issue date15-January-2016Revision date11-July-2024

Version E

United States & Puerto Rico

Further information HMIS Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic

hazard

NFPA Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

HMIS® ratings
Health: 0
Flammability: 1

Physical hazard: 0

NFPA ratings

Taiwan



On inventory (yes/no)*

No

Yes

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

List of abbreviations

DOT: Department of Transportation.

IATA: International Air Transport Association. IMDG: International Maritime Dangerous Goods. HMIS: Hazardous Materials Identification System. NFPA: National Fire Protection Association.

CAS Number: Chemical Abstracts Service Registry Number.

LC50: Lethal concentration 50% (concentration that kills 50% of test animals).

EC50: (Effective Concentration – 50%) The concentration that will produce a 50% in vivo inhibition

of a biological or biochemical effect, in the test organisms or animals.

MARPOL: International Convention for the Prevention of Pollution from Ships.

Disclaimer

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