

# SAFETY DATA SHEET

## 1. Identification

Product identifier KOPR-SHIELD®

Other means of identification

SDS number SDS-00003-CA

**Product code** CP8-TB, CP16, CP128, 201-31879, 201-31879-1, 54865CK

**Recommended use**Lubricants, greases and release products.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company name ABB Installation Products Inc.

Address 860 Ridge Lake Blvd.

Memphis, TN 38120

**United States** 

**Telephone** 901-252-5000 ext.8324

**E-mail** Not available.

Emergency phone number CHEMTREC - 24 HOURS: +1 800-424-9300

2. Hazard 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

Label elements



Signal word Warning

**Hazard statement** Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

**Precautionary statement** 

**Prevention** Avoid release to the environment.

Response Collect spillage.

**Storage** Store away from incompatible materials.

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

Other hazards None known.

Supplemental information None.

# 3. Composition/information on ingredients

**Mixtures** 

KOPR-SHIELD® SDS Canada

910859 Version #: 01 Revision date: - Issue date: 14-August-2019

Chemical name	Common name and synonyms	CAS number	%
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	60 - 80
Copper		7440-50-8	10 - 30
Zinc bis(dipentyldithiocarbamate)		15337-18-5	0.1 - < 1

**Composition comments** 

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

percent by volume. The exact concentrations of the above listed chemicals are being withheld as a trade secret.

4. First-aid measures

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

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

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

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

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.

No unusual fire or explosion hazards noted. General fire hazards

#### 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. 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. Absorb in vermiculite, dry sand or earth and place into containers. Cover with plastic sheet to prevent spreading. 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.

SDS Canada 2/7 910859 Version #: 01 Revision date: -Issue date: 14-August-2019

**Environmental precautions** 

Prevent further leakage or spillage if safe to do so. Do not contaminate water.

#### 7. Handling and storage

Precautions for safe handling

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Provide adequate ventilation. Remove contaminated clothing and wash before reuse. Be aware of potential for surfaces to become slippery. When using, do not eat, drink or smoke.

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 away from incompatible materials (see section 10 of the SDS).

# 8. Exposure controls/personal protection

## Occupational exposure limits

Туре	Value	Form	
TWA	1 mg/m3	Dust and mist.	
	0.2 mg/m3	Fume.	
		TWA 1 mg/m3	TWA 1 mg/m3 Dust and mist.

# Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Туре	Value	Form
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.

# Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Туре	Value	Form	
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.	
		0.2 mg/m3	Fume.	

# Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Components	Туре	Value	Form	
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.	
		0.2 mg/m3	Fume.	

## Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Туре	Value	Form
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and fume.
		0.2 mg/m3	Fume.

# Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety) Components Value Form

	- 7 P -		
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.

#### Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)

Components	Туре	Value	Form	
Copper (CAS 7440-50-8)	15 minute	3 mg/m3	Dust and mist.	
		0.6 mg/m3	Fume.	
	8 hour	1 mg/m3	Dust and mist.	
		0.2 mg/m3	Fume.	

**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 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

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

KOPR-SHIELD® SDS Canada

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

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 alething and protective equipment to remove contaminants.

wash work clothing and protective equipment to remove contaminants.

#### 9. Physical and chemical properties

**Appearance** 

Physical state Semi-fluid (gel).
Form Liquid. Gel.
Colour Copper.
Odour Petroleum.
Odour threshold Not available.
pH Neutral

Initial boiling point and boiling

Melting point/freezing point

> 315 °C (> 599 °F)

None.

range

Flash point > 310.0 °C (> 590.0 °F)

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Vapour pressure Not available.
Vapour density Not available.

Relative density 1.2

Solubility(ies)

Solubility (water) Insoluble

Partition coefficient Not available.
(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot applicable.

Other information

**Explosive properties** Not explosive. **Oxidising properties** Not oxidising.

#### 10. Stability and reactivity

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

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

Possibility of hazardous

reactions

Hazardous polymerisation 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.

KOPR-SHIELD® SDS C

910859 Version #: 01 Revision date: - Issue date: 14-August-2019

4/7

## 11. Toxicological information

Information on likely routes of exposure

InhalationNo adverse effects due to inhalation are expected.Skin contactNo adverse effects due to skin contact are expected.Eye contactDirect 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
Serious eve damage/eve

Serious eye damage/eye irritation

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

Respiratory or skin sensitisation

**Respiratory sensitisation** Not a respiratory sensitiser.

**Skin sensitisation** This product is not expected to cause skin sensitisation.

**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.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

12. Ecological information

**Ecotoxicity** Very toxic to aquatic life. Toxic 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 instructions**Collect 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.

KOPR-SHIELD® SDS Canada

910859 Version #: 01 Revision date: - Issue date: 14-August-2019

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).

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

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

**TDG** 

**UN** number UN3082

UN proper shipping name Transport hazard class(es) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Copper)

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

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

**IATA** 

UN3082 **UN** number

**UN proper shipping name** Transport hazard class(es) Environmentally hazardous substance, liquid, n.o.s. (Copper)

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

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

**IMDG** 

UN3082 **UN** number

**UN proper shipping name** Transport hazard class(es)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (COPPER)

9 Class 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

This product has been classified in accordance with the hazard criteria of the HPR and the SDS Canadian regulations

contains all the information required by the HPR.

**Controlled Drugs and Substances Act** 

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

**Greenhouse Gases** 

Not listed.

Ontario. Toxic Substances. Toxic Reduction Act, 2009. Regulation 455/09 (July 1, 2011)

Not applicable.

Copper (CAS 7440-50-8)

**Precursor Control Regulations** 

Not regulated.

International regulations

**Stockholm Convention** 

Not applicable.

**KOPR-SHIELD®** SDS Canada

#### **Rotterdam Convention**

Not applicable.

#### **Kyoto Protocol**

Not applicable.

#### **Montreal Protocol**

Not applicable.

#### **Basel Convention**

Not applicable.

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
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

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory \*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

Taiwan Chemical Substance Inventory (TCSI)

### 16. Other information

Taiwan

14-August-2019 Issue date

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Disclaimer ABB Installation Products Inc. cannot anticipate all conditions under which this information and its

product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently

available.

**KOPR-SHIELD®** SDS Canada 910859 7/7 Version #: 01 Revision date: -Issue date: 14-August-2019

Yes

No

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).