

# SAFETY DATA SHEET

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NGHS / English



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## 1. IDENTIFICATION

### Product identifier

**Product Name** : Copper paste

### Other means of identification

**Product Code(s)**: PC968

### Recommended use of the chemical and restrictions on use

**Recommended Use** : Lubricants, Greases and Release Products

**Uses advised against** : No information available

### Details of the supplier of the safety data sheet

**Supplier Identification** : Techno-Control Cybernetic Inc.

### Adresse :

Techno-Control Cybernetic Inc.

3470 Blvd des Entreprises

Terrebonne, Qc

J6X 4J8, Canada

**Telephone** : 450-968-8896

**E-mail** : info@techno-control.com

### Emergency telephone number

**Company Emergency Phone Number** : 1-780-463-7441

**Emergency Telephone Number** : CHEMTREC : +1-703-527-3887 (INTERNATIONAL)  
1-800-424-9300 (NORTH AMERICA)

## 2. HAZARDS IDENTIFICATION

### Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 3

**Appearance** : Copper

**Physical state** : Paste / Gel

**Odor** :Petroleum



**GHS Label elements, including precautionary statements*****Warning*****Hazards statements**

Causes skin irritation

Causes serious eye irritation

May cause respiratory irritation

**Precautionary Statements - Prevention**

Do not handle until all safety precautions have been read and understood

Wear protective gloves/protective clothing/eye protection/face protection

Wash face, hands and any exposed skin thoroughly after handling

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

**Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

Specific treatment (see supplemental first aid instructions on this label)

**Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention

**Skin**

IF ON SKIN : Wash with plenty of water and soap

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash it before reuse

**Inhalation**

IF INHALED : Remove person to fresh air and keep comfortable for breathing

**Precautionary Statements - Storage**

Store in accordance with local regulations

Store in a closed container

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other information**

Toxic by eye contact. May be harmful if swallowed. Very toxic to aquatic life with long lasting effects. Very toxic to aquatic life

**Unknown acute toxicity** : 99.6% of the mixture consists of ingredient(s) of unknown toxicity

29.8% of the mixture consists of ingredient(s) of unknown acute oral toxicity

99.6% of the mixture consists of ingredient(s) of unknown acute dermal toxicity

99.6% of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

99.6% of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

99.6% of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance**

Not applicable

**Mixture**

Chemical name	CAS-No	Percent	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
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 (flake)	7440-50-8	25-30	-	-
Zinc, bis(dipentylcarbamo-dithioato-S-S)- (T-4)-	15337-18-5	<1	-	-

### 4. FIRST AID MEASURES

**First aid measures**

**General advice:** IF exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance.

**Inhalation :** Remove to fresh air. IF exposed or concerned : Get medical advice/attention. Get medical attention immediately if symptoms occur.

**Eye contact :** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Do not rub affected area.

**Skin contact :** Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

**Ingestion :** Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.

**Self-protection of the first aider :** Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

**Most important symptoms and effects, both acute and delayed**

**Symptoms :** Burning sensation.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians :** Treat symptomatically.



## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media** : Use extinguishing measures that are appropriate to local circumstances and the surroundings environment.

**Unsuitable extinguishing media** : CAUTION : Use of water spray when fighting fire may be inefficient.

**Specific hazards arising from the chemical** : No information available.

**Hazardous Combustion Products** : Carbon oxides.

**Explosion Data**

**Sensitivity to Mechanical Impact** : None.

**Sensitivity to Static Discharge** : None.

**Special protective equipment for fire-fighters** : Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** : Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing.

**Other information** : Refer to protective measures listed in Sections 7 and 8.

### Environmental precautions

**Environmental precautions** : Prevent further leakage or spillage if safe to do so.

### Methods and material for containment and cleaning up

**Methods for containment** : Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** : Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

**Prevention of secondary hazards** : Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling** : Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Ensure adequate ventilation. Avoid breathing vapors or mists. In case of insufficient ventilation, wear suitable respiratory equipment.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** : Keep containers tightly closed in a dry, cool and well-ventilated place.



## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Limits

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	
Copper (flake)	TWA: 0.2 mg/m <sup>3</sup> fume TWA: 1 mg/m <sup>3</sup> Cu dust and mist	TWA: 0.1 mg/m <sup>3</sup> fume TWA: 1 mg/m <sup>3</sup> dust and mist (vacated) TWA: 0.1 mg/m <sup>3</sup> Cu dust, fume, mist	IDLH: 100 mg/m <sup>3</sup> dust, fume and mist IDLH: 100mg/m <sup>3</sup> Cu dust and mist TWA: 1 mg/m <sup>3</sup> dust and mist TWA: 0.1 mg/m <sup>3</sup> fume TWA: 1 mg/m <sup>3</sup> Cu dust and mist	
Chemical Name	Alberta	Colombie-Britannique	Ontario TWAEV	Québec
Copper (flake) 7440-50-8	TWA: 0.2 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> TWA: 0.2 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>

**Other Exposure Guidelines:** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 969 (11<sup>e</sup> Cir., 1992).

### Appropriate engineering controls

#### Engineering controls

Showers

Eyewash stations

Ventilation systems

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

**Eye/face protection :** If splashes are likely to occur, wear safety glasses with side-shields.

**Hand protection :** Wear suitable gloves. Impervious gloves.

**Skin and body protection :** Wear suitable protective clothing. Long sleeved clothing.

**Respiratory protection :** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene consideration :** Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

**Physical state :** Paste / gel

**Appearance :** Copper

**Odor :** Petroleum

**Color :** No information available

**Odor Threshold :** No information available

<u>Property</u>	<u>Values</u>	<u>Remarks / Method</u>
pH	7	
Melting / freezing point	No data available	None known
Boiling point / boiling range	315°C	
Flash point	> 310°C	
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability limit	No data available	
Lower flammability limit	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	1.20	
Water solubility	Insoluble in water	
Solubility(ies)	No data available	None known
Partition coefficient : n-octanol/water	Not available	
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Explosive properties	No information available	
Oxidizing properties	No information available	

### Other informations

**Softening Point :** No information available



**Molecular Weight** : No information available

**VOC Content (%)** : No information available

**Liquid Density** : No information available

**Bulk Density** : No information available

**Particle Size** : No information available

**Particle Size Distribution** : No information available

## 10. STABILITY AND REACTIVITY

**Reactivity** : No information available.

**Chemical stability** : Stable under normal conditions.

**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** : Strong acids. Strong bases. Strong oxidizing agents.

**Hazardous Decomposition Products** : Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product information

**Inhalation** : Specific test data for substance or mixture is not available. May cause irritation of respiratory tract.

**Eye contact** : Specific test data for the substance or mixture is not available. Irritating to eyes. (based on components). Causes serious eye irritation.

**Skin contact** : Specific test data for the substance or mixture is not available. Causes skin irritation (bases on components).

**Ingestion** : Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

### Information on toxicological effects

**Symptoms** : Redness. May cause redness and tearing of the eyes.

### Numerical measures of toxicity

#### Acute toxicity

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

**ATEmix (oral)** : 2,293.00 mg/kg

**Unknown acute toxicity** : 99.6% of the mixture consists of ingredient(s) of unknown toxicity.

29.8% of the mixture consists of ingredient(s) of unknown acute oral toxicity

99.6% of the mixture consists of ingredient(s) of unknown acute dermal toxicity

99.6% of the mixture consists of ingredient(s) of unknown acute inhalation (gas)

99.6% of the mixture consists of ingredient(s) of unknown acute inhalation (vapor)

99.6% of the mixture consists of ingredient(s) of unknown acute inhalation (dust/mist)

**Component information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LD50
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.	= 2280 mg/kg (Rat)	-	-

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** : Classification based on data available for ingredients. Irritating to skin.

**Serious eye damage/eye irritation** : Classification based on data available for ingredients. Irritating to eyes.

**Respiratory or skin sensitization** : No information available.

**Germ cell mutagenicity** : No information available.

**Carcinogenicity** : Based on available data, the classification criteria are not met.

**Reproductive toxicity** : No information available.

**STOT – single exposure** : May cause respiratory irritation.

**STOT – repeated exposure** : No information available.

**Aspiration hazard** : No information available.

**12. ECOLOGICAL INFORMATION**

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

**Ecotoxicity** : -





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.	> 1001 mg/l	96h LC50: > 2000 mg/L (Salmo gairdneri)	-	-
Copper (flake)	96h EC50 : 0.031-0.054 mg/L (pseudokirchneriella subcapitata) 72h EC50 : 0.0426-0.0535 mg/L (pseudokirchneriella subcapitata)	96h LC50 : 0.0068-0.0156 mg/L (Pimephales promelas) 96h LC50 : =0.052 mg/L (Oncorhynchus mykiss) 96h LC50: =0.2 mg/L (Pimephales promelas) 96h LC50 : < 0.3 mg/L (Pimephales promelas) 96h LC50 : =0.112 mg/L (Poecilia reticulata) 96h LC50 : =0.3 mg/L (Cyprinus carpio) 96h LC50 : =0.8 mg/L (Cyprinus carpio)	-	48h EC50 : =0.03mg/L

**Persistence and Degradability** : No information available.

**Bioaccumulation** : There is no data for this product

**Mobility** : No information available

**Other adverse effects** : No information available

### 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

**Waste from residues/unused products** : Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** : Do not reuse 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 (flake) 7440-50-8	Toxic



**14. TRANSPORT INFORMATION****DOT****UN-No:** UN3082**Proper shipping Name:** Environmentally hazardous substances, liquid, n.o.s.**Hazard Class:** 9**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 :** 171**TDG****UN-No:** UN3082**Proper shipping Name :** Environmentally hazardous substance, liquid, n.o.s.**Hazard Class :** 9**Packing Group :** III**Marine Pollutant :** This product contains a chemical which is listed as a severe marine pollutant according to TDG.**Description :** UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Copper), 9, III, Marine pollutant.**MEX****UN-No :** UN3082**Proper Shipping Name :** Environmentally hazardous substances, liquid, n.o.s.**Hazard Class :** 9**Packing Group :** III**Description :** UN3082 Environmentally hazardous substances, liquid, n.o.s. (Copper), 9, III**ICAO****UN-No :** UN3082**Proper Shipping Name :** Environmentally hazardous substance, liquid, n.o.s.**Hazard Class :** 9**Packing Group :** III



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

**IATA**

**UN-No :** UN3082

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

**Hazard Class :** 9

**Packing Group:** III

**ERG Code:** 9L

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

**IMDG/IMO**

**UN-No :** UN3082

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

**Hazard Class :** 9

**Packing Group :** III

**EmS-No :** F-A, S-F

**Marine Pollutant :** This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO. Product is a marine pollutant according to the criteria set by IMDG/IMO.

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

**RID**

**UN-No :** 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/RID-Labels :** 9

**ADR**

**UN-No :** 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 : UN082 Environmentally hazardous substance, liquid, n.o.s. (Copper), 9, III(E)

**ADN**

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

### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### International Regulations

Ozone-depleting substances (ODS) : Not applicable

Persistent Organic Pollutants : Not applicable

Export Notification requirements: Not applicable

#### International Inventories

TSCA : Contact supplier for inventory compliance status.

DSL/NDSL : Contact supplier for inventory compliance status.

EINECS/ELINCS : Contact supplier for inventory compliance status.

ENCS : Contact supplier for inventory compliance status.

KECL : Contact supplier for inventory compliance status.

PICCS : Contact supplier for inventory compliance status.

AICS : Contact supplier for inventory compliance status.

#### Legend

TSCA – United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL – Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS – European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS – Japan Existing and New Chemical Substances

KECL – Korean Existing and Evaluated Chemical Substances





PICCS – Philippines Inventory of Chemicals and Chemical Substances

AICS – Australian Inventory of Chemical Substances

**US Federal regulations**

**SARA 313**

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	Percent	SARA 313 – Threshold Values %
Copper (flake) – 7440-50-8	7440-50-8	25-30	1.0
Zinc, bis(dipentylcarbamodithioato-S,S'), (T-4)- - 15337-18-5	15337-18-5	< 1	1.0

**Acute Health Hazard:** Yes

**Chronic Health Hazard :** Yes

**Fire Hazard :** No

**Sudden release of pressure hazard :** No

**Reactive Hazard :** No

**CWA (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)

Chemical name	CWA – Reportable Quantities	CWA – Toxic Pollutants	CWA – Priority Pollutants	CWA – Hazardous Substances
Copper (flake) – 7440-50-8		X	X	
Zinc, bis(dipentylcarbamodithioato-S,S')-, (T-4)- - 15337-18-5		X		

**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 (flake) 7440-50-8	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

**US State Regulations**



This product does not contain any Proposition 65 chemicals.

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

This product may contain substances regulated by state right-to-know regulations.

Chemical name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Copper (flake) – 7440-50-8	X	X	X	X	X
Zinc, bis(dipentylcarbamodithioato-S,S'), (T-4)- - 15337-18-5	X		X	X	

**16. OTHER INFORMATION**

**NFPA** Health hazards 2 Flammability 1 Instability 0 Physical and Chemical Properties –

**HMS** Health hazards 2\* Flammability 1 Physical hazards 0 Personal Protection X

**Chronis Hazards Star Legend** \*=Chronic Health Hazard

**Prepared by :**

Product Stewardship

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**Disclaimer**

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

**END OF DATA SHEET**