

# Safety Data Sheet

## Section 1 - Chemical Identification

Product Name: Copper Oxide wire  
Catalog Numbers: CI-11325, CI-11327  
SDS number : 35  
Intended Purpose: Laboratory use, elemental analysis

**Company** Crossings, Inc.  
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402-435-7942

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## Section 2 - Hazards Identification

**Health Hazards:** Acute toxicity, Oral Category 4  
**Environmental Hazards:** Acute Aquatic Toxicity, Category 1 (H400)  
Chronic Aquatic Toxicity, Category 3 (H412)

**GHS-Labeling:**



**Signal Word:** **Warning**

**Hazard Statement:** Harmful if swallowed. Very toxic to aquatic life with long last effects.

**Precautionary**

**Statement:** Avoid breathing dust. Wash thoroughly after handling. Observe good industrial hygiene practices. Avoid release to the environment. If swallowed: Call a poison center/doctor if you feel unwell. Collect spillage. Store in a dry place, in a closed container. Dispose contents/container in accordance with federal/state/local regulations.

**Other Hazards:** None

## Section 3 - Composition, Information on Ingredients

<u>Chemical Name</u>	<u>Common Name</u>	<u>CAS#</u>	<u>%/W</u>
Copper (II) Oxide		1317-38-0	> 99
Dicopper oxide		1317-39-1	small quantities

## Section 4 - First Aid Measures

**GENERAL ADVICE:** Consult a physician. Show this safety data sheet to the doctor in attendance.

**Eyes:** Immediately flush eyes with plenty of water. **If eye irritation persists:** Seek medical aid.

**Skin:** Wash skin with plenty of water and soap removing any contaminated clothing and shoes.

**Ingestion:** DO NOT induce vomiting. Rinse mouth. Seek medical aid.

**Inhalation:** Remove to fresh air immediately.

## Section 5 - Fire Fighting Measures

**Nonflammable solid – air-born dust may ignite.**

**Suitable Media:** Use Water spray, Dry chemical, Carbon Dioxide(CO2).

**Hazards from Chemical:** Copper oxides.

**Specific Methods:** Firefighters use standard protective equipment and self-contained breathing apparatus.

## **Section 6 - Accidental Release Measures**

**Personal Precautions:** Use suitable protection equipment, avoid creating dust.

**Environmental:** Keep material from entering sewers, drains and waterways.

**Recovery method:** Sweep up or vacuum up, collect in suitable container, dispose according to local, state and federal regulations.

## **Section 7: Handling and Storage**

**Handling:** Avoid breathing dust. Avoid creating dust. Avoid eye, skin contact. Use in a proper ventilated area.

**Storage:** Keep container closed when not in use- store in a clean dry and well ventilated environment.

## **Section 8 - Exposure Controls, Personal Protection**

CAS#	Chemical Name	Form	ACGIH TLV(mg/m3)	NIOSH TWA(mg/m3)
1317-38-0	Copper Oxide	Dust	1	0.1
	Dicopper	Dust	1	0.1
	See specific listing for Copper (dust and mist)			

**Controls:** Use proper exhaust ventilation to keep airborne concentrations below the exposure limits.

**Eye/Face:** Safety glasses with side shields.

**Skin/Clothing Protection:** Wear appropriate protective gloves and clothing.

**Respirators:** For nuisance exposures use type P95 particle respirator. Use an OSHA / NIOSH approved respirator.

**Hygiene:** Wash hand and exposure area of use after handling.

**Environment Exposure:** Do not let product enter drains.

## **SECTION 9 - Physical and Chemical Properties**

**Physical state:** Solid – wire, sticks,

**Appearance:** Black

**Odor:** None

**PH:** Not available.

**Melting Point:** 1336°C (2437°F)

**Vapor pressure:** N/A

**Vapor density:** N/A

**Viscosity:** not available.

**Boiling point:** N/A

**Freezing/melting point:** N/A

**Decomposition temperature:** N/A.

**Water Solubility:** 0.0001 g/l - insoluble

## **Section 10 - Stability and Reactivity**

**Stability:** Stable under normal conditions and storage.

**Avoid:** Dust creations. Strong acids and incompatible materials.

**Hazardous Decomposition:** Copper fumes

**Incompatible materials:** Oxidizers, strong acids, halogens, sodium sulfide

## **Section 11 - Toxicological Information**

### **Information on toxicological**

#### **Acute toxicity:**

LD50 Oral-rat: >2.500mg/kg

LD50 Dermal rat: >2000mg/kg

**Skin:** Prolonged skin contact may cause temporary irritation.

**Eye damage/eye irritation:** Mild eye irritation

**Respiratory sensitization:** No data available.

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

**Carcinogenicity OSHA Specifically Regulated**

**Substances (29 CFR 1910.1001-1050)** Not listed.

**Specific target organ toxicity - single exposure:** No data available.

**Specific target organ toxicity - repeated exposure:** No data available.

**Aspiration hazard:** Not available.

**Chronic effects:** Symptoms of copper poisoning: cold sweat, headache, jaundice, kidney/liver failure, weak pulse.

## **Section 12 - Ecological Information**

**Eco-toxicity:** Aquatic

Fish. LC50 – Oncorhynchus mykiss (rainbow trout): 0.19 – 0.21 mg/l – 96h

Crustacea EC50 - Daphnia magna (Water flea): 0.001 -0.039 mg/l -48h

**Persistence and Degradability:** No data.

**Mobility in soil:** N/A

**Other adverse effects:** Discharge into the environment must be avoided.

## **Section 13 - Disposal Considerations**

Dispose of in accordance with all federal, state and local regulation. Contact a waste disposal service.

## **Section 14 - Transport Information**

**DOT:** Not dangerous goods.

UN number: 3077 Class: 9 Group: III

UN Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Copper oxide), MARINE POLLUTANT

**Precautions for User:** Read safety instruction and SDS emergency procedures before handling.

**IMDG UN number:** 3077 Class: 9 Group: III EMS-No: F-A, S-F Marine pollutant: yes

UN Proper shipping name: ENVIRONMENTALLY HAZARDOUS, SOLID, N.O.S. (copper oxide)

**IATA UN number** 3077 Class: 9 Group: III

UN Proper shipping name: ENVIRONMENTALLY HAZARDOUS, SOLID, N.O.S. (copper oxide)

**Further information** EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

## **Section 15 - Regulatory Information**

US Federal Regulations

U.S. TSCA Inventory: On toxic substance control Inventory.

CERCLA Sections 102a/103 Reportable Quantities: None

Clean Water Act (CWA)Section 112(r) (40 CFR 68.130): Priority Pollutant

SARA Title III Section 302 Extreme Hazardous substance: Not listed

Sections 311/312 Hazardous Categories: Acute, chronic

Section 313 Toxic Chemicals: Reporting

Chemical Name	CAS#	%/W
Copper (II) Oxide	1317-38-0	<100
Dicopper oxide	1317-39-1	small quantities

**RCRA Status:** Not regulated.

**State Regulations:**

California Proposition 65: This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

Pennsylvania: Right to Know - Copper (II) Oxide CAS # 1317-38-0

New Jersey: Right to know- Copper (II) Oxide CAS # 1317-38-0  
Rhode Island: Right to know- Copper (II) Oxide CAS # 1317-38-0  
California: Health and Safety Code(Section 11100): Not Listed

## **Section 16 – OTHER INFORMATION**

HMIS ratings: Health (chronic): 2 Flammability: 0 Physical: 2  
NFPA ratings: Health: 2 Flammability: 0 Reactivity: 2

The information provided in the SDS is believed to be correct to the best of our knowledge and is attended only as guidance for the safe use, storage and disposal of the product. Crossings Inc cannot assure the accuracy of the information provided and shall not be responsible or liable for any damage or loses resulting from use.

Date: October 20, 2015