

# Safety Data Sheet

## Section 1 - Chemical Identification

Product Name: Copper stuffing (mesh)  
Catalog Numbers: CI-1340  
SDS number : 37  
Intended Purpose: laboratory use

**Company** Crossings, Inc.  
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Lincoln, NE 68522  
402-435-7942

**Website:** [www.crossingsinc.com](http://www.crossingsinc.com)  
**email:** info@crossingsinc.com  
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ChemTel: 800-255-3924

## Section 2 - Hazards Identification

**Physical Hazards:** Not classified

**Health Hazards:** Not classified

**Environment Hazards:** Hazardous to Aquatic environment, Acute -- Category 1  
Hazardous to Aquatic environment, Long term – Category 1



**Label:**

**Signal Word:** Warning

**Hazard Statement:** Very toxic to aquatic life (H400). Very toxic to aquatic life with long last effects (412).

**Precautionary Statement:** Avoid release to the environment. Collect spillage. Store away from incompatible materials. Dispose of contents/container in accordance with federal/state/local regulations.

## Section 3 - Composition, Information on Ingredients

| <u>Chemical Name</u> | <u>Common Name</u> | <u>CAS#</u> | <u>%/W</u> |
|----------------------|--------------------|-------------|------------|
| Copper               |                    | 7440-50-8   | <100       |

## 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. If symptoms persists seek medical aid.

## Section 5 - Fire Fighting Measures

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

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

**Hazards from Chemical:** Gasses hazardous to health may develop during a fire.

**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 collect in suitable container, dispose of 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 | OSHA<br>PEL(mg/m3) | ACGIH<br>TLV(mg/m3) | NIOSH<br>TWA(mg/m3) |
|-----------|---------------|------|--------------------|---------------------|---------------------|
| 7440-50-8 | Copper        |      | 0.1                |                     | 0.1                 |

\*\*\* Remarks: Also see specific listing for Copper (dust and mists).

**Biological Limits:** No biological exposure limits noted for ingredients.

**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:** Use an OSHA / NIOSH approved respirator.

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

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

**Physical state:** Solid – strands, mesh

**Appearance:** Copper

**Odor:** None

**PH:** Not available.

**Vapor pressure:** N/A

**Vapor density:** N/A

**Viscosity:** N/A

**Melting Point:** 1083°C

**Boiling point:** 2595°C

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

**Decomposition temperature:** N/A.

**Solubility:** Nitric acid

## **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:** Oxidizing agents, strong acids, halogens, sodium sulfide.

## **Section 11 - Toxicological Information**

### **Information on toxicological effects.**

**Acute toxicity:** Harmful if swallowed.

Acute toxicity data: LD50 mouse 3.5mg/kg

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

**Eye damage/eye irritation:** N/A

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

## **Section 12 - Ecological Information**

**Eco-toxicity:** Aquatic - LC50 – Oncorhynchus mykiss (rainbow trout): 0.19 – 0.21 mg/l – 96h  
EC50-Daphnia magna (Water flea): 0.036 mg/l -48h

**Persistence and Degradability:** No data

**Mobility in soil:** N/A

## **Section 13 - Disposal Considerations**

Dispose of in accordance with all legal regulation. Do not contaminate any lakes, ponds or water ways.

## **Section 14 - Transport Information**

### **DOT:**

UN number: 3077, Glass: 9, Group: III

UN Proper shipping name: ENVIRONMENTALLY HAZARDOUS, SOLID, N.O.S. (Copper RQ-500lbs)

**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)

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

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

Additional information: EH-Mark required(ADR2.2.9.1.10, IMDG code2.10.3) for single packaging and packagings containing inner packages with Dangerous Good >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: Copper, 5000lbs.

SARA Title III Section 302 Extreme Hazardous substance: Not listed

Sections 311/312 Hazardous Categories: None

Section 313 Toxic Chemicals: None

**RCRA Status:** Not regulated.

### **Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories** Immediate Hazard - Yes

Delayed Hazard - No

### **State Regulations:**

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

Massachusetts: Right to know – Copper CAS# 7440-50-8

New Jersey: Right to Know- Copper CAS # 7440-50-8

Pennsylvania: Right to Know - Copper CAS # 7440-50-8

New Jersey: Right to know- Copper CAS # 7440-50-8

**Canadian Regulations:** WHMIS - not regulated.

## **Section 16 – OTHER INFORMATION**

NFPA ratings: Health: 2 Flammability: 0 Reactivity: 0

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 losses resulting from use.

Date: October 20, 2015