



LIQUID METAL FX

COPPER POWDER SDS Issue date 11/24/20. Revision date 02/03/23

SAFETY DATA SHEET

Section 1: Identification

Product Name: COPPER POWDER -325 Mesh

Company: Cadoro Plaster Inc. #311 15252 32 Ave. Surrey, British Columbia, Canada V3Z 0R7

For information about this SDS, use this department contact phone#: 1-888-610-3018



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Section 2: Hazard(s) Identification

Hazard Classification: The classification is based on the criteria in the UN Globally Harmonized System of Labeling of Chemicals.

Hazard Statements: May cause respiratory irritation - May cause serious eye irritation

Acute Toxicity, Oral - Category 4

Acute Toxicity, inhalation - Category 4 Irritant, Eye - Category 2B

Copper Fume: Irritant, Respiratory - Category 3

Environmental Hazards

Acute Aquatic Toxicity - Category 1 Acute Chronic Toxicity - Category 1

Physical Hazards:

None Known

Hazardous Statements:

H302- Harmful if swallowed

H335- May cause respiratory irritation

H320- Causes eye irritation

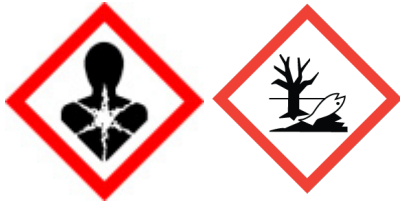
H410- Very toxic to aquatic life with long lasting effects.



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Pictograms:



Precautionary Statements: Use only outdoors or in well ventilated area - Avoid breathing dust - Wear protective gloves/clothing/eye and face protection - Wash hands thoroughly after handling

Section 3: Composition/ Information on Ingredients

| Chemical Name | Percentage | CAS# | EC number |
|----------------------|-------------------|-------------|------------------|
| Copper | 99% | 7440-50-8 | 231-159-6 |

Section 4: First-Aid Measures

After skin contact: Remove contaminated clothing and wash with soap and water.

After eye contact Flush eyes with large volumes of fresh water lifting upper and lower eyelids occasionally. Seek medical attention if irritation develops.



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After inhalation: Remove to fresh air. Lay patient down. Cover with blanket.

After swallowing: Give 200-300 mL water to drink. **DO NOT** induce vomiting.

Medical Notes: If any adverse symptoms persist seek immediate medical attention.

Section 5: Fire-Fighting Measures

EXTINGUISHING MEDIA: CO₂, ABC extinguisher, or water spray.

SPECIAL FIRE FIGHTING PROCEDURES: Material is non-flammable. Use firefighting measures appropriate to surrounding materials.

PERSONAL PROTECTIVE EQUIPMENT: Wear self-contained breathing apparatus

Section 6: Accidental Release Measures

Personal precautions: Spilled material may produce dust hazard if not handled correctly. Wear appropriate personal protective equipment: coveralls, gloves & eye protection.

Measures for environmental protection: Contain spillages and clean up with vacuum or conventional tool and attempt to minimize dusting. Place in a suitable container for recycling or disposal in accordance to local and national waste regulations.

Measures for cleaning/collecting: Place in a suitable container for recycling or disposal in accordance with local, state. and/or federal regulations.



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Section 7: Handling and Storage

Handling: Only use in a well-ventilated area and prevent the creation of dusts. If concentrations exceeds the occupational exposure limits, use suitable respiratory protection.

Storage: Store in a cool, dry well-ventilated place. Keep away from food, drink, and animal feeding stuffs.

Section 8: Exposure Controls/Personal Protection

Occupational Exposure Standards

IDLH - Immediately dangerous to life and health

Occupational Exposure controls:

Copper Powder as dust & mists:

OSHA PEL = 1.0 mg/m³

ACGIH TLV = 1.0 mg/m³

NIOSH IDLH = 100 mg/m³

Copper Fume: OSHA PEL = 1.0 mg/m³ ACGIH TLV = 0.2mg/m³

NIOSH IDLH = 100 mg/m³



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General protective and hygienic measures: All personal protective equipment, including respiratory equipment, used to control exposure to hazardous substances must be selected to meet the requirements of national personal protective equipment regulations. To keep below the USA OSHA and EU exposure limits, use general dilution type ventilation.

Breathing equipment: Cartridge type particulate filter respirator or dust-mask conforming to USA NIOSH. Refer to Respiratory Protective Devices approved by NIOSH under 42 CFR 84 and the appropriate European standard.

Protection of hands: Wear if skin contact is probable and skin is sensitive.

Eye protection: Safety glasses or goggles.

Skin Protection: Long sleeve shirt(s) if contact is probable and skin is sensitive

Environmental Protection: Do not allow to enter drains or watercourses.

Section 9: Physical and Chemical Properties

Form: *Reddish to Salmon Color*

Odor: *none*

Odor threshold: *NA*

pH: *NA*



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Melting point/melting range: 1083°C

Boiling point/boiling range: 2580°C @ 760mmhg

Flash point: NA

Evaporation rate: NA

Flammability: NA

Copper

Upper/lower flammability or explosive limits: NA

Auto ignition temperature: NA

Danger of explosion: No

Vapor pressure: NA

Vapor density: NA

Specific gravity 8.94

Solubility in/Miscibility with water: Insoluble

Section 10: Stability and Reactivity

STABILITY: Stable

Conditions and materials to avoid:

Copper is explosively incompatible with sodium azide. Copper dusts may react with acetylene gas to form copper acetylides, which are sensitive to shock. copper mists may react with magnesium



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to form flammable hydrogen gas.
Hazardous Decomposition Products: None Identified.
Hazardous Polymerization: Will Not Occur

Section 11: Toxicological Information

SIGNS, SYMPTOMS AND EFFECT OF OVER EXPOSURE:

EYES: Redness, tearing, itching, burning and conjunctivitis

INGESTION: Irritation and burning sensation of mouth and throat, nausea, abdominal pain with possible diarrhea.

INHALATION: Irritation of the mucous membranes, coughing, wheezing, shortness of breath. Prolonged exposure may cause metallic taste.

ACUTE HEALTH EFFECTS:

This product is not listed by NTP, IARC or regulated as a carcinogen by OSHA.

Copper is an essential element of mammalian metabolism. Copper metal has little or no serious toxicity.

The most common adverse effect associated with copper is the acute inhalation of copper fume during refining or welding.

Inhalation of copper fume or dust may result in metal fume fever, which is characterized by upper respiratory irritation, chills, metallic or sweet taste, nausea, and aching muscles.

Attacks usually begin after 4-8 hours of exposure and last only 24-48 hours. Inhalation of fumes has been reported to sometimes cause discoloration to the skin and hair. Nausea and vomiting may result if larger amounts of copper metal are ingested. This is probably due to the conversion of the swallowed metal copper to its irritating salts. It is unlikely that poisoning by ingestion in industry would progress to a serious



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point because small amounts induce vomiting, emptying the stomach of copper salts. High airborne concentrations of copper metal would be expected to cause mechanical irritation of the eyes and respiratory tract.

Metallic copper may cause keratinization of the hands and soles of the feet, but it is not commonly associated with industrial dermatitis.

No component of this product present at levels greater than 0.1% is identified as a carcinogen by the US National Toxicology Program, the US Occupational Safety and Health Act, or the International Agency for Research on Cancer (IARC).

Section 12: Ecological Information (non-mandatory)

Toxic to fish and other aquatic organisms.

Prevent from entering drains, sewers, and surface water.

Section 13: Disposal Considerations (non-mandatory)

Disposal must be in accordance with applicable local, state and federal regulations (contact local, state, or federal environmental agency for specific rules). Do not dump into sewers, on the ground, or into any body of water.



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Section 14: Transport Information (non-mandatory)

US DOT
DOT regulations: Hazardous Class: None

Not a hazardous material for transportation.

Not Regulated. Class 9 materials do not require placarding for USA ground transport (49 CFR 172.504 (F)(9)). *Exceptions*, except when all or part of the transportation is by vessel, the requirements specific to marine pollutants do not apply to non-bulk packaging's transported by motor vehicle, rail car, or aircraft (49 CFR 171.4(c)). Permissive labelling is allowed by USA DOT (49 cfr 172.401(c)).

Land transport ADR/RID (cross border) Hazardous Class: None

Proper Shipping Name:

UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, NOS (copper) Class 9.PG III, MARINE POLLUTANT.

Section 15: Regulatory Information (non-mandatory)

US EPA EPCRA Section 313 Reportable Product - (contains copper)
US EPA Reportable Quantity: 5,000 lbs (2270 kg)



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All chemical constituents of these products are listed on the TSCA inventory of chemical substances maintained by the US Environmental Protection Agency (EPA)

US EPA Reportable Quantity: 5,000 lbs (2,270 kg)

All components of this product are on the TSCA inventory requirements under 40 CFR720.30

Section 16: Other Information

Keep out of reach of children. Read and follow all label instructions. This information is based on our present knowledge however, this not a guarantee of specific product features. It is the user's responsibility to satisfy themselves as to the suitability and completeness of this information for their own particular use.

This Safety Data Sheet has been established in accordance with Directive nr 1907/2006/EC.

Classification references: Directive 67/548/EEC and Directive 99/45/EEC.

SDS date of preparation : 11/24/20 **update :** Revision date 02/03/23