

## Document type

## Safety Data Sheet

### 1. Product identification

<b>1.1 Trading Name</b>	<b>OXIDE METAL COPPER</b>
<b>1.2 Type of product and use</b>	Decorative coating for architectural surfaces
<b>1.3 Producer</b>	<b>Stucco Italiano Srl</b> Via Rovereto 20 – 36030 Costabissara (VI) – Italy Tel.: +39 0444 700 991, Email: info@stuccoitaliano.it web: www.stuccoitaliano.com
<b>1.4 Emergency contact num.</b>	Technical information: Stucco Italiano Srl office +39 0444 700 991 (Monday-Friday 8.00–17.00); Mobile phone +39 340 3058872 (Saturday and Sunday)

### 2. Identification of hazards

#### 2.1 Classification of the substance or mixture

According to regulation (EC) No 1272/2008 (CLP)

Signal	Hazard class	Hazard category	Hazard statement
Warning	Aquatic Acute	1	H400: Very toxic to aquatic life.
	Aquatic Chronic	3	H412: Harmful to aquatic life with long lasting effects.

#### 2.2 Label Elements

##### Hazard pictograms



##### Signal word

Warning

##### Hazard statements:

H400: Very toxic to aquatic life.  
H412: Harmful to aquatic life with long lasting effects

##### Precaution statements

P273: Avoid spillage in the environment.  
P391: Collect spilled product.  
P501: Dispose of product/container in accordance with national regulations.

##### Special provision

EUH208: Contains reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one. May produce an allergic reaction.

##### Supplemental Information

None

##### Contains

Copper, CAS: 7440-50-8

#### 2.3 Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration  $\geq 0.1\%$

##### Other hazards

No other hazards

### 3. Composition

<b>3.1 Substances</b>	Copper powder 95% (min w/w) ( $> 10 \mu\text{m} < 1 \text{mm}$ ).
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### 3.2 Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Quantity	Name	Identification number	Classification
>= 70% - < 80%	Copper	CAS: 7440-50-8	H400: Very toxic to aquatic life. H412: Harmful to aquatic life with long lasting effects
>= 0. 0002% - < 0. 003%	Reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one	CAS: 55965-84-9	>= 0. 0015% - < 0. 06% Skin Sens. 1A H317

## 4. First-aid measures

### 4.1 First aid measures:

#### Contact with skin

Wash thoroughly with soap and water. In case of irritation, consult a doctor. In case of contact with molten product, cool quickly with water and immediately consult a doctor.

#### Contact with eyes

Apply general measures if eye irritation occurs. Do not rub the eyes. Remove any contact lenses. Rinse the eyes thoroughly with water, being careful to rinse under the eyelids. If irritation persists, continue to rinse for 15 minutes, rinsing under the eyelids from time to time. If discomfort persists, consult a doctor.

#### Ingestion

In case of significant oral intake (several mg of Cu), rinse the mouth and give 200-300 ml of water to drink. Do not induce vomiting. Consult a doctor if the discomfort persists.

#### Inhalation

Move the exposed person immediately to fresh air. Perform artificial respiration if necessary. Consult a doctor as soon as possible.

### 4.2 Most important symptoms

Gastrointestinal symptoms are the first symptoms for high oral intake of soluble copper compounds. Vomiting may occur.

The liver is the most critical organ for delayed effects of "excess copper".

Irritation of the nose and lungs may be symptoms that occur after inhalation of copper-containing fumes/powders/mists.

Exposure to inhalation of fine powders in large doses can produce symptoms called metal fume fever for 24/48 hours.

### 4.3 Medical attention

In case of unwellness, seek medical advice immediately

## 5. Firefighting measures

### 5.1 Extinguishing media

Suitable media:

Dry sand, powder D fire extinguishers.

Media which must not be used:

Do not use water or halogenated substances as firefighting agents.

### 5.2 Special hazards

Do not inhale explosion and combustion gases

Burning produces heavy smoke

Special attention should be paid to processes and/or facilities that involve the formation of clouds of very fine dust that may be potentially flammable in the presence of ignition sources, which may lead to explosions.

### 5.3 Advice for firefighters

Use suitable breathing apparatus

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. The product is not flammable.

## 6. Accidental release measures

### 6.1 Individual precautions

Avoid the formation of dust clouds. Ensure adequate ventilation. Avoid inhalation of dust. Wear suitable protective clothing.

### 6.2 Environmental precaution

Do not allow to enter soil / subsoil. Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it  
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Suitable material for taking up: absorbing material, organic, sand

### 6.3 Cleaning methods

Do not use compressed air. Collect the product with a scoop into containers for recycling.

## 7. Handling and storage

### 7.1 Handling precautions

Never reuse empty containers before they have been subjected to industrial cleaning or reconditioning. Prior to carrying out work with ignition sources, clean pipelines and containers. Before carrying out transfer operations, make sure that there are no residues of incompatible substances inside the tank. As for protective devices, refer to point 8 of this data sheet.

### 7.2 Incompatible materials

Keep away from food and drink

### Storage conditions

Store in a covered, dry, and naturally ventilated area. Avoid depositing the material on the floor. Keep away from food, feed, and drinks. Keep containers separate from strong oxidizers. The storage area must be arranged in a way that prevents accidental leaks from percolating into the soil. Do not stack more than 3 pallets (for products packaged in drums). Do not stack more than 1 pallet (for products packaged in big-bags).

## 8. Individual control

### 8.1 Control parameters

TLV - TWA (ACGIH, 2009): Cu 0.2 mg/m<sup>3</sup> (fumes); Denmark: OEL Cu 0.1 mg/m<sup>3</sup>  
TLV - TWA (ACGIH, 2009): Cu 1 mg/m<sup>3</sup> (dust and mist); Denmark: OEL Cu 1 mg/m<sup>3</sup>

Exposure samples	Penetration pathways	Descriptor	DNEL
Long-term systemic effects on humans.	Oral, cutaneous, or inhalation route.	Internal DNEL (Derived No Effect Level) dose. Using absorption factors of 25% for oral exposure, 100% for inhalation (respirable), and 0.03% for dermal exposure.	0.041 mg Cu/kg B wt/d

Short-term systemic effects on humans.	As above	As above	0.082 mg Cu/kg B wt/d
Effects water on human beings in the short term.	Oral	The NOAEL for drinking water"	4 mg Cu/l

## 8.2 Exposure controls

### Precautionary measures

Do not eat, drink, or smoke in areas where handling and processing occur.

### Breathing protection

FFP2 (S) mask filter for dust and FFP3 for fumes (support: half-mask) Local exhaust of fumes (high efficiency: 90-95%) Cyclones/Filters (to minimize the emission of dust into the atmosphere)

### Hands protection

No safety measures for normal use.

### Eyes protection

Use close fitting safety glasses with side shields, don't use eye lenses

### Skin protection

No safety measures for normal use.

### Exposure limits

No safety measures for normal use.

### Thermal hazards

None

### Environmental exposure

Prevent the release or abandonment into the surrounding environment.  
Take precautions against discharge into public sewers or receiving water bodies.  
Dispose of the material and its containers at a hazardous waste collection point.

### Engineering controls

None

## 9. Chemical / Physical characteristics

Physical state	Thick paste
Colour	Copper
Odour	None
pH value	N.A.
Melting / freezing point:	N.A.
Boiling point	N.A.
boiling range	N.A.
Water solubility	N.A.
Specific weight	N.A.
Flammability	Non flammable
Vapour density	N.A.
Flash point:	N.A.
Vapour pressure	N.A.
Evaporation rate	N.A.
Relative density	0.65 –5.5 g/cm <sup>3</sup>
Solubility in oil	N.A.
Partition coefficient	N.A.

<b>Anti-ignition temperature</b>	N.A.
<b>Decomposition temperature</b>	N.A.
<b>Viscosity</b>	N.A.
<b>Explosive properties</b>	The substance is non-explosive. It does not contain groups associated with explosive properties.
<b>Oxidising properties</b>	N.A.
<b>9.2 Other information</b>	N.A.
<b>Miscibility</b>	N.A.
<b>Fat Solubility</b>	N.A.
<b>Conductivity</b>	N.A.
<b>Substance groups</b>	N.A.

## 10. Stability and reactivity

<b>10.1 Reactivity</b>	Stable under normal conditions
<b>10.2 Chemical stability</b>	Stable under normal conditions
<b>10.3 Hazardous reactions</b>	It releases soluble copper compounds in reaction with H-equivalents.
<b>10.4 Conditions to avoid</b>	Avoid the formation of dust and contact with acids.
<b>10.5 Incompatible materials</b>	Strong concentrated acids.
<b>10.6 Decomposition hazards</b>	None

## 11. Toxicological information

<b>11.1 Toxicological effect</b>	
<b>Acute toxicity</b>	Not classified. No data available for the product
<b>Skin irritation</b>	Not classified. No data available for the product
<b>Serious eye damage</b>	Not classified. No data available for the product
<b>Respiratory sensitisation</b>	Fractions with d50 > 10 µm: Not classified. (Fractions < 10 µm: Harmful if inhaled. Rat LD50: 1-5 g/m3 air)
<b>Skin sensitiation</b>	The product is classified: Skin Sens. 1A H317 May cause an allergic reaction
<b>Germ cell mutagenicity</b>	Not classified. No data available for the product
<b>Carcinogenicity</b>	Not classified. No data available for the product
<b>Reproductive toxicity</b>	Not classified. No data available for the product
<b>STOT-single exposure</b>	Not classified. No data available for the product
<b>STOT-repeated exposure</b>	Not classified. No data available for the product
<b>Aspiration hazards</b>	Not classified. No data available for the product
<b>Toxicological information of the main substances found in the product</b>	Copper

**11.2 Other hazards**

Endocrine disrupting properties: No endocrine disruptor substances present in concentration  $\geq 0.1\%$

**12. Ecological information**

**12.1 Toxicity**

Do not disperse the product in the environment.

Waste waters and residues do not have to be poured into drains, into the ground or in watercourses. The product is classified: H400: Very toxic to aquatic life; H412: Harmful to aquatic life with long lasting effects

**Acute aquatic toxicity**

Toxicity at pH = 5.5-6.5: L(E)C50 of 25.0  $\mu\text{g Cu/L}$  (Van Sprang et al., 2010, in Chemical Safety Report(CSR) copper, 2010). M-factor: 1

**Chronic toxicity in freshwater**

Unclassified. The predicted no-effect concentration (PNEC) of 7.8  $\mu\text{g/L}$  of dissolved copper can be used for environmental risk assessment.

**Chronic toxicity in marine water**

Unclassified. PNEC: 5.2  $\mu\text{g/L}$  of dissolved copper can be used for environmental risk assessment.

**Sediment toxicity in freshwater**

PNEC in sediment is 87 mg Cu/kg dry weight. It can be used for environmental risk assessment.

**Soil toxicity**

PNEC in soil: 65.5 mg Cu/kg dry weight. It can be used for environmental risk assessment.

**Persistence and degradability**

N/A

**Bioaccumulation potential**

N/A

**Soil mobility**

Copper ions strongly bind to the soil matrix. The binding depends on the soil properties. The average value of the water-soil partition coefficient ( $K_p$ ) obtained is: 2120 L/kg.

**PBT and vPvB assessment results**

The criteria of Annex XIII of the REACH Regulation on PBT and vPvB properties do not apply to inorganic substances such as copper and its inorganic compounds.

**Other harmful effects**

Copper does not contribute to ozone depletion, ozone formation, global warming, and acidification.

**13. Information on disposal**

**Waste treatment methods**

The disposal of the product should be carried out as hazardous waste, according to current regulations. Depending on the waste origin and its current state, different European codes (CER) may apply.

Disposal of the containers should also be carried out according to current regulations. Depending on the waste origin and its current state, different European codes (CER) may apply.

**14. Information on transport**

		Road/rail/inland	Maritime transport	Air transport (ICAO)
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		<b>waterway transport (ADR/RID/ADN)</b>	<b>(IMDG Code)</b>	<b>T.I./IATA)</b>
<b>14.1</b>	UN number	3077	3077	3077
<b>14.2</b>	Proper shipping name UN	Environmentally hazardous substance (copper powder), solid, N.O.S.	Environmentally hazardous substance (copper powder), solid, N.O.S.	Environmentally hazardous substance (copper powder), solid, N.O.S.
<b>14.3</b>	Danger class	9	9	9
<b>14.4</b>	Packaging group	III	III	III
<b>14.5</b>	Environmental hazards	Classified as dangerous	Classified as dangerous	Classified as dangerous
<b>14.6</b>	Special precautions for users	(*)	EmS: F-A, S-F (*)	(*)
<b>14.7</b>	Bulk transport according to Annex II of MARPOL 73/78 and IBC code	N.A.	N.A.	N.A.
<b>14.8</b>	Labelling			

(\*) Transport, including loading and unloading, must be carried out by people who have received the necessary training provided by the modal regulations concerning the transport of dangerous goods

## 15. Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)  
 Dir. 2000/39/EC (Occupational exposure limit values)  
 Regulation (EC) n. 1907/2006 (REACH)  
 Regulation (EC) n. 1272/2008 (CLP)  
 Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013 Regulation (EU) 2015/830  
 Regulation (EU) n. 286/2011 (ATP 2 CLP)  
 Regulation (EU) n. 618/2012 (ATP 3 CLP)  
 Regulation (EU) n. 487/2013 (ATP 4 CLP)  
 Regulation (EU) n. 944/2013 (ATP 5 CLP) Regulation (EU) n. 605/2014 (ATP 6 CLP) Regulation (EU) n. 2015/1221 (ATP 7 CLP) Regulation (EU) n. 2016/918 (ATP 8 CLP) Regulation (EU) n. 2016/1179 (ATP 9 CLP) Regulation (EU) n. 2017/776

(ATP 10 CLP) Regulation (EU) n. 2018/669 (ATP 11 CLP) Regulation (EU) n. 2018/1480 (ATP 13 CLP) Regulation (EU) n. 2019/521 (ATP 12 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: Restriction 3

Restrictions related to the substances contained: No restriction.

Where applicable, refer to the following regulatory provisions : Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive) Provisions related to directive EU 2012/18 (Seveso III): Seveso III category according to Annex 1, part 1 : None

### 15.2 Chemical safety

No Chemical Safety Assessment has been carried out for the mixture.

## 16. Other information

This safety data sheet has been completely updated in compliance to Regulation 2020/878. Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 (CLP)

<b>ADR</b>	European Agreement concerning International Carriage of Dangerous Goods by Road
<b>ATE</b>	Acute Toxicity Estimate
<b>ATEMix</b>	Acute toxicity Estimate (Mixtures)
<b>CAS</b>	Chemical Abstracts Service (division of the American Chemical Society).
<b>CLP</b>	Classification, Labeling, Packaging.
<b>DNEL</b>	Derived No Effect Level.
<b>EINECS</b>	European Inventory of Existing Commercial Chemical Substances.
<b>GefStoffVO</b>	Ordinance on Hazardous Substances, Germany.
<b>GHS</b>	Globally Harmonized System of Classification and Labeling of Chemicals.
<b>IATA</b>	International Air Transport Association.
<b>IATA-DGR</b>	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
<b>ICAO</b>	International Civil Aviation Organization.
<b>ICAO-TI</b>	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
<b>IMDG</b>	International Maritime Code for Dangerous Goods.
<b>INCI</b>	International Nomenclature of Cosmetic Ingredients.
<b>KSt</b>	Explosion coefficient.
<b>LC50</b>	Lethal concentration, for 50 percent of test population.
<b>LD50</b>	Lethal dose, for 50 percent of test population

<b>PNEC</b>	Predicted No Effect Concentration.
<b>RID</b>	Regulation Concerning the International Transport of Dangerous Goods by Rail.
<b>STEL</b>	Short Term Exposure limit.
<b>STOT</b>	Specific Target Organ Toxicity.
<b>TLV</b>	Threshold Limiting Value.
<b>TWA</b>	Time-weighted average
<b>WGK</b>	German Water Hazard Class.

The information contained herein is based on our knowledge at the date given below, refers only to the product indicated and does not represent a guarantee of particular qualities.

The user has to make sure of the suitability and completeness of such information in relation with the specific use and always under his responsibility act in accordance with the regulation on health, safety and environmental protection, provided by current laws.

The manufacturer declines all liability for improper use.

This SDS cancels and replaces any preceding release.