

Document type Safety Data Sheet

1. Product identification

1.1 Trading Name LIQUID METAL COMP C - COPPER

1.2 Type of product and useDecorative coating for architectural surfaces

1.3 Producer Stucco Italiano SrI

Via Rovereto 20 – 36030 Costabissara (VI) – Italy Tel.: +39 0444 700 991, Email: info@stuccoitaliano.it

web: www.stuccoitaliano.com

1.4 Emergency contact num. 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.

Supplemental Information None

Contains Copper, CAS: 7440-50-8

2.3 Other hazards No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%

Other hazards No other hazards

3. Composition

3.1 Substances Copper powder 95% (min w/w) (> 10 μ m < 1 mm).

3.2 Mixtures Hazardous components within the meaning of the CLP regulation and related

classification:

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Quantity	Name	Identification number	Classification
>= 95% - < 99%	Copper	CAS: 7440-50-8	H400: Very toxic to aquatic life. H412: Harmful to aquatic life with long lasting effects

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. Do not attempt to remove molten product from the skin as the skin can easily tear. Cuts or abrasions should be promptly treated with thorough cleaning of the

affected area.

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.

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 hazardsDo 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.

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5.3 Advice for firefightersUse 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 precautionsAvoid the formation of dust clouds. Ensure adequate ventilation. Avoid inhalation of

dust. Wear suitable protective clothing.

6.2 Environmental precautionDo 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,

sanc

6.3 Cleaning methodsDo 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.

Keep away from food and drink

7.2 Incompatible materials

Storage conditions Store in a covered, dry, and n

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/m3 (fumes); Denmark: OEL Cu 0.1 mg/m3

TLV - TWA (ACGIH, 2009): Cu 1 mg/m3 (dust and mist); Denmark: OEL Cu 1

mg/m3

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

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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 Solid, powder

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.

Flammability Non flammable

N.A.

Vapour density N.A.

Flash point: N.A.

Vapour pressure N.A.

Evaporation rate N.A.

Specific weight

Relative density 0.65 –5.5 g/cm3

Solubility in oil N.A.

Partition coefficient N.A.

Auti-ignition temperature N.A.

Decomposition temperature N.A.

Viscosity N.A.

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Explosive propertiesThe substance is non-explosive. It does not contain groups associated with

explosive properties.

Oxidising properties N.A.

9.2 Other information N.A.

Miscibility N.A.

Fat Solublity N.A.

Conductivity N.A.

Substange groups N.A.

10. Stability and reactivity

10.1 Reactivity Stable under normal conditions10.2 Chemical stability Stable under normal conditions

10.4 Conditions to avoidAvoid the formation of dust and contact with acids.

10.5 Incompatible materials Strong concentrated acids.

10.6 Decomposition hazards None

11. Toxicological information

11.1 Toxicological effect

Acute toxicity

Not classified. No data available for the product

Skin irritation

Not classified. No data available for the product

Serious eye damage

Not classified. No data available for the product

Respiratory sensitisation Fractions with d50 > 10 μm: Not classified. (Fractions < 10 μm: Harmful if inhaled.

Rat LD50: 1-5 g/m3 air)

Skin sensitiation The product is classified: May cause an allergic skin reaction 1B H317

Germ cell mutagenicity

Not classified. No data available for the product

Toxicological information of the main substances found in the

product

Copper

11.2 Other hazards Endocrine disrupting properties: No endocrine disruptor substances present in

concentration >= 0.1%

12. Ecological information

12.1 Toxicity Do not disperse the product in the environment.

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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 pg 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 µg/L of dissolved

copper can be used for environmental risk assessment.

Chronic toxicity in marine water Unclassified. PNEC: 5.2 µg/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 (Kp) obtained is:

2120 L/kg.

PBT and vPvB assessment

results

Other harmful effects

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.

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 waterway transport (ADR/RID/ADN)	Maritime transport (IMDG Code)	Air transport (ICAO T.I./IATA)
14.1	UN number	3077	3077	3077

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14.2	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.
14.3	Danger class	9	9	9
14.4	Packaging group	III	III	III
14.5	Environmental hazards	Classified as dangerous	Classified as dangerous	Classified as dangerous
14.6	Special precautions for users	(*)	EmS: F-A, S-F (*)	(*)
14.7	Bulk transport according to Annex II of MARPOL 73/78 and IBC code	N.A.	N.A.	N.A.
14.8	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:

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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

In conformity with the provisions of Leg. Decree 03/65 and Directive 99/45 EC the product is labeled as follows:

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

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)

ADR European Agreement concerning International Carriage of Dangerous Goods by

Road

ATE Acute Toxicity Estimate

ATEMix Acute toxicity Estimate (Mixtures)

CAS Chemical Abstracts Service (division of the American Chemical Society).

CLP Classification, Labeling, Packaging.

DNEL Derived No Effect Level.

EINECS European Inventory of Existing Commercial Chemical Substances.

GefStoffVO Ordinance on Hazardous Substances, Germany.

GHS Globally Harmonized System of Classification and Labeling of Chemicals.

IATA International Air Transport Association.

IATA-DGR Dangerous Goods Regulation by the "International Air Transport Association"

(IATA).

ICAO International Civil Aviation Organization.

ICAO-TI Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG International Maritime Code for Dangerous Goods.

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INCI International Nomenclature of Cosmetic Ingredients.

KSt Explosion coefficient.

LC50 Lethal concentration, for 50 percent of test population.

LD50 Lethal dose, for 50 percent of test population

PNEC Predicted No Effect Concentration.

RID Regulation Concerning the International Transport of Dangerous Goods by Rail.

STEL Short Term Exposure limit.

STOT Specific Target Organ Toxicity.

TLV Threshold Limiting Value.
TWA Time-weighted average

WGK 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.