

SAFETY DATA SHEET

According to Regulation (EC) No.1907/2006

SECTION 1: IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY:

Trade Name:	Application:	Manufacturer/Supplier:
Roberson Bronze Powders – All Colours.	Art and Craft Gilding Product	C. Roberson & Co Ltd Unit 1, 88-91 Scrubs Lane London NW10 6QU Phone: +44 (0) 20-7272 0567 Fax: +44 (0) 20-7263 0212

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS:

Name:	CAS-NO.:	EC-NO.:	Concentration:	Classification:
Copper	7440-50-8	231-159-6	≤50-≤100%	H302 - Acute Tx 4; H400 - Aquatic Acute 1; H411 - Aquatic Chronic 2
Zinc	7440-66-6	231-175-3	≥10-<20%	H400 - Aquatic Acute 1; H410 - Aquatic Chronic 1
Quaternary ammonium compounds, coco alkylethyldimethyl, Et sulfates	68308-64-5	269-662-8	<0.25%	H302 - Acute Tx 4; H314 - Skin Corr 1B; H400 - Aquatic Acute 1

SECTION 3: HAZARDS IDENTIFICATION:

Classification: (regulation (EC) no 1272/2008)

H302 – Harmful if swallowed. Acute toxicity, Category 4
H400 – Very toxic to aquatic life. Acute aquatic toxicity, Category 1
H411 – Toxic to aquatic life with long lasting effects. Chronic aquatic toxicity, Category 2

Label elements:
(Labelling according to Regulation (EC) No 1272/2008)

Hazards Pictograms:



Signal Word: Warning

Hazardous components which must be listed on the label: 7440-50-8 - copper

Hazards statements: H302 – Harmful if swallowed.
H400 – Very toxic to aquatic life.
H411 - Very toxic to aquatic life with long lasting effects

Precautionary statements:

Prevention: P270 - Do not eat, drink or smoke when using this product.
P273 - Avoid release to the environment.
P261 - Avoid breathing dust.

Response: P391 - Collect spillage.
P370 + P378 - In case of fire: Use for extinction: Special powder for metal fires.
P370 + P378 - In case of fire: Use for extinction: Dry sand.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.

Disposal: P501 - Dispose of contents/ container to an approved waste disposal plant.

SECTION 3: HAZARDS IDENTIFICATION (Cont.):

Storage: P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Other Hazards: No information available.

SECTION 4: FIRST AID MEASURES

General advice: Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Move the victim to fresh air. Do not leave the victim unattended.

If inhaled: If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

In case of skin contact: Wash off immediately with soap and plenty of water.

In case of eye contact: Flush eyes with water as a precaution. Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

If swallowed: Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed: No information available.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing media: Suitable extinguishing media: Special powder against metal fire, Dry sand, ABC powder.

Unsuitable extinguishing media: Water, High volume water jet.

Special hazards arising from the substance or mixture: Specific hazards during firefighting: Do not allow run-off from fire fighting to enter drains or water courses.

Advice for firefighters: Special protective equipment for firefighters. Wear self-contained breathing apparatus for fire fighting if necessary.

Further information: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid dust formation. Avoid breathing dust. Use personal protective equipment. Evacuate personnel to safe areas.

Environmental precautions: Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

Clean-Up Procedures: Keep in suitable, closed containers for disposal. Use mechanical handling equipment. Pick up and transfer to properly labelled containers.

References to other sections: For personal protection see section 8.

SECTION 7: HANDLING AND STORAGE

Safe handling precautions:

Advice on safe handling:

Avoid formation of respirable particles. Do not breathe vapours/dust. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations. Avoid creating dust. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

Hygiene measures:

When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

General industrial hygiene practice:

Do not smoke. Wash hands before breaks and at the end of workday. Keep away from food and drink. Keep away from tobacco products.

Safe storage conditions:

Requirements for storage areas and containers:

Requirements for storage areas and containers: Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the technological safety standards.

Advice on protection against fire and explosion:

Keep away from sources of ignition - No smoking. Do not store near combustible materials. Keep containers tightly closed in a cool, well-ventilated place. To maintain product quality, do not store in heat or direct sunlight.

Further information on storage conditions:

Further information on storage conditions:

Other data:

Keep in a dry place. No decomposition if stored and applied as directed.

Dampness:

Keep in a dry, cool and well-ventilated place.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters.

Components:	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
Copper	7440-50-8	TWA (Inhalable)	10 mg/m ³	2011-12-01	GB EH40
Copper	7440-50-8	TWA (Respirable)	4 mg/m ³	2011-12-01	GB EH40
Copper	7440-50-8	TWA	1 mg/m ³	2005-04-06	GB EH40
Copper	7440-50-8	STEL	2 mg/m ³	2005-04-06	GB EH40
Copper	7440-50-8	TWA	0.2 mg/m ³	2005-04-06	GB EH40
Zinc	7440-66-6	TWA (Inhalable)	10 mg/m ³	2011-12-01	GB EH40
Zinc	7440-66-6	TWA (Respirable)	4 mg/m ³	2011-12-01	GB EH40

Exposure controls.

Personal protective equipment

Eye protection:

Eye wash bottle with pure water Safety glasses

Hand protection material:

Leather

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION(Cont.):

Remarks:

The suitability for a specific workplace should be discussed with the producers of the protective gloves.
 Leather gloves: The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. The exact break through time can be obtained from the protective glove producer and this has to be observed.
 Recommended preventive skin protection.

Skin and body protection:

Dust impervious protective suit Choose body protection according to the amount and concentration of the dangerous substance at the work place.
 Anti-static and fire resistant protective clothing. EN 531; EN 533; EN 1149-1. Anti-static safety shoes.
 Recommended preventive skin protection

Respiratory protection:

Use suitable breathing protection if workplace concentration requires.
 Respirator with a dust filter.
 P1 filter.

Environmental exposure controls

General advice:

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

Water:

The product should not be allowed to enter drains, water courses or the soil.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Environmental exposure controls General advice:

Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. Local authorities should be advised if significant spillages cannot be contained. If the product contaminates rivers and lakes or drains inform respective authorities.

Information on basic physical and chemical properties.

Form:	Powder
Color:	Gold
Odor:	Characteristic
pH:	no data available
Flash point:	no data available
Boiling point:	no data available
Flammability:	no data available
Vapour pressure:	no data available
Density:	no data available
Water solubility:	no data available
Solubility in other solvents:	no data available
Partition coefficient:	no data available
Auto-ignition temperature:	no data available
Viscosity:	no data available
Explosive properties:	no data available

SECTION 10: STABILITY AND REACTIVITY

Conditions to avoid: No data available.

Incompatible Materials: No data available.

Decomposition hazards: No data available.

Reactivity: No decomposition if stored and applied as directed.

Chemical reactivity: No decomposition if stored and applied as directed.

Risk of hazardous reaction: No decomposition if stored and applied as directed.
Stable under recommended storage conditions. No hazards to be specially mentioned.
Dust may form explosive mixture in air.

SECTION 11: TOXICOLOGICAL INFORMATION

Components: 7440-66-6

Acute oral toxicity: rat: > 2,000 mg/kg

Acute inhalation toxicity: LC50 rat: 5.41 mg/l Exposure time: 4 h

Skin corrosion/irritation: No data available.

Serious eye damage/eye irritation: No data available.

Respiratory or skin sensitisation: No data available.

Carcinogenicity: No data available.

Toxicity to reproduction/fertility: No data available.

Reprod.Tox./Development/Teratogenicity: No data available.

STOT - single exposure: No data available.

STOT - repeated exposure No data available.

Aspiration toxicity No data available.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity:	Copper (7440-50-8) M-Factor: 10
Persistence and degradability	No data available
Bioaccumulative potential:	No data available
Mobility in soil:	No data available
Results of PBT and vPvB assessment:	No data available
Additional ecological information:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

SECTION 13: DISPOSAL INFORMATION

European Waste Catalogue: 12 01 04 - non-ferrous metal dust and particles

Waste treatment methods:	Product:	The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
	Contaminated Packaging:	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

SECTION 14: TRANSPORT INFORMATION

IMDG/IMO

Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper metal powder)
Hazard Class:	9
UN/ID no:	3077
Packing Group:	III
Labels:	9
EmS Number:	F-A, S-F
Environmental hazards	Marine pollutant

ADR/RID

Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper metal powder)
Hazard Class:	9
UN/ID no:	3077
Packing Group:	III

SECTION 14: TRANSPORT INFORMATION(Cont.):

ADR/RID(Cont.)

Classification Code: M7

Hazard identification 90

No:

Labels: 9

Tunnel restriction code: (E)

Environmental hazards Environmentally hazardous

ICAO/IATA

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper metal powder)

Hazard Class: 9

UN/ID no: 3077

Packing Group: III

Packing instruction (cargo aircraft): 956

Packing instruction (passenger aircraft): 956

Packing instruction (LQ): Y956

Labels: 9

SECTION 15: REGULATORY INFORMATION

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

Water contaminating class (Germany): nwg not water endangering

Chemical Safety Assessment: no data available

SECTION 16: OTHER INFORMATION

Full text of R-Phrases

R22 Harmful if swallowed.

R34 Causes burns.

R50 Very toxic to aquatic organisms.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 16: **OTHER INFORMATION**

Full text of H-Statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

To best of our knowledge the information contain herein is accurate. However, neither the above supplier assumes any liability whatsoever for the accuracy or completeness of the information herein

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist