



## SAFETY DATA SHEET

### Copper Glaze Crystals

CONTACT NUMBER: 01243 265845

#### SECTION 1 - PRODUCT INFORMATION

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FANTASY CRYSTALS: FC027

#### SECTION 2 – HAZARDOUS INGREDIENTS

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ENTITY	%	CAS NO	ACGIH TLV	OSHA PEL
SiO <sup>2</sup>	30-50%	14808-60-7	0.1 mg / m <sup>3</sup>	0.1 mg / m <sup>3</sup>
Copper Carbonate	3-5%	12069-69-1	1.0mg/m <sup>3</sup>	1.0mg/m <sup>3</sup>

#### SECTION 3 - PHYSICAL AND CHEMICAL PROPERTIES

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APPEARANCE:	Dark Blue/Green Granules
ODOUR:	N/A
BOILING POINT:	N/A
MELTING POINT:	> 400°C
VAPOUR PRESSURE:	N/A
SPECIFIC GRAVITY:	N/A
FLASH POINT:	N/A
FLAMMABILITY LIMITS:	No data
SOLUBILITY IN WATER:	Negligible
VISCOSITY:	No data
pH:	N/A
VOLATILE ORGANIC COMP:	< 1%

#### SECTION 4 – HAZARDS IDENTIFICATION

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##### SILICA

Crystalline Silica may be present. Crystalline silica may cause irritation to eyes, skin and the respiratory tract. Prolonged or repeated inhalation of silica, in excess of TLV, may lead to delayed lung injury (silicosis). This material is listed as a possible carcinogen.



### **COPPER CARBONATE**

Copper is slightly toxic. Copper may be irritating to the skin and eyes on contact. Inhalation will cause irritation to the lungs and mucus membrane. Irritation to the eyes will cause watering and redness. Reddening, scaling, and itching are characteristics of skin inflammation.

**ROUTES OF ENTRY:** Ingestion. Absorption through skin negligible. (Chronic) Inhalation of metal fumes during firing causing lung inflammation and damage to kidneys and nervous system.

### **SECTION 5 – FIRST AID MEASURES**

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**SWALLOWED:** Dilute by drinking water.  
**EYE:** Flush eyes with copious quantities of water for at least 15 minutes. If irritation persists contact a physician.  
**SKIN:** Wash skin with soap and water.  
**INHALED:** Remove from exposure. Apply artificial respiration if breathing has stopped and contact physician.

### **SECTION 6 – FIRE/EXPLOSION HAZARD**

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**FLASH POINT:** N/A  
**FLAMMABLE LIMITS:** N/A  
**EXTINGUISHING MEDIA:** Not combustible  
**SPECIAL FIRE FIGHTING PROCEDURE:** None  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None

### **SECTION 7 – ACCIDENTAL RELEASE MEASURES**

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**Spillage:** Uncontaminated material may be recovered and re-used. If contaminated, scoop, vacuum or wash into a receptacle for disposal.  
**Waste Disposal:** Follow Federal or State and Local regulations for disposal. Testing of the waste may be required to determine status under hazardous waste regulations.

### **SECTION 8 – HANDLING AND STORAGE**

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**ENGINEERING CONTROL:** None  
**WORK PRACTICES:** Store away from food. Do not smoke, eat or drink while handling.  
**PROCEDURE/EQUIPMENT:** None

### **SECTION 9 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

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Use of the following protective measures are strongly recommended if the glazes are to be applied by spraying.



The work hygiene practices apply regardless of the method of application.

<b>RESPIRATORY PROTECTION:</b>	Use NIOSH approved dust and/or fume respirator as necessary.
<b>VENTILATION:</b>	During firing.
<b>PROTECTIVE GLOVES:</b>	N/A
<b>EYE PROTECTION:</b>	N/A.
<b>OTHER PROTECTION:</b>	Wear appropriate clean, protective clothing such as, but not limited to overalls, smocks and aprons.
<b>WORK PRACTICES:</b>	Food, beverages and smoking materials should not be in the work area. Hygiene is very important. Wash thoroughly before eating, drinking and smoking or applying cosmetics.

## **SECTION 10 – STABILITY AND REACTIVITY DATA**

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<b>INCOMPATIBILITY:</b>	N/A
<b>STABILITY:</b>	Stable.
<b>HAZARDOUS DECOMPOSITION:</b>	N/A
<b>HAZARDOUS POLYMERISATION:</b>	N/A
<b>CONDITIONS TO AVOID:</b>	Fumes from firing.

## **SECTION 11 – TOXICOLOGY INFORMATION**

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### **USA**

**Hazard to Humans:** None during normal use. Harmful if inhaled or swallowed.

### **DO NOT SPRAY APPLY**

If glaze is spray applied the following warnings apply: Warning: Contains Quartz.

1. Possible cancer agent based on tests with laboratory animals.
2. Exposure may cause lung damage.
3. Keep out of reach of children; avoid inhalation.

This product contains chemicals known to the State of California to cause cancer.

**Health Hazards (acute and chronic):** Prolonged inhalation of silica, in excess of TLV, over an extended period of time may result in injury to the lungs.

**Additional information:** Frits are fused silica glass like substances. The bioavailability may be limited because of the physical nature of the frit.

**Effects of over exposure:** Copper is slightly toxic. Inhalation of copper dust/fumes may cause acute irritation of the nose and/or trachea, may produce acute metal fume fever. Exposure of skin to copper dust may cause acute dermatitis. In the case of



chronic exposure, the liver, kidneys and/or spleen may be injured, and/or anaemia may develop. Chronic toxicity is confined to those persons suffering from pre-existing Wilson's disease.

**Medical Conditions prone to aggravation by exposure to copper dust:**

1. Persons afflicted with chronic respiratory disease and/or impaired pulmonary function, especially those with obstructive airway diseases.
2. Persons afflicted with pre-existing liver disease.
3. Persons afflicted with pre-existing kidney disease.
4. Persons afflicted with pre-existing skin disorders.
5. Persons afflicted with pre-existing blood disorders.
6. Persons afflicted with pre-existing Wilson's Disease.

**Primary routes of entry:**

Inhalation. Only if sprayed...DO NOT SPRAY.  
Ingestion. When heated copper compounds may give off copper fume which may cause symptoms similar to common cold. If ingested in large amounts, gastrointestinal irritation may occur with salivation, nausea, vomiting, gastric pain, diarrhoea and possible haemorrhagic gastritis. Eye contact is irritating and may cause conjunctivitis.

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**SECTION 12 – ECOLOGICAL INFORMATION**

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<b>MOBILITY:</b>	N/A
<b>PERSISTENCE/DEGRADABILITY:</b>	N/A
<b>BIOACCUMULATION:</b>	N/A
<b>ECOTOXICITY:</b>	N/A

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**SECTION 13 – DISPOSAL CONSIDERATIONS**

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<b>WASTE DISPOSAL METHOD:</b>	Follow Federal, State or Local regulations for disposal. Testing of waste may be required to determine status under hazardous waste regulations.
<b>WASTE RESIDUE/UNUSED PRODUCT:</b>	Can be land filled according to local regulations.
<b>CONTAMINATED PACKAGING:</b>	Can be land filled according to local regulations.

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**SECTION 14 – TRANSPORTATION**

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**UN NUMBER:** None for this product.



## SECTION 15 – REGULATORY INFORMATION

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Silica is listed by California, Proposition 65  
Silica is listed on the IARC, OSHA or NTP carcinogen list.  
All ingredients are on U.S. TSCA/EC/AICS/DSL Inventory.  
See local requirements.

**EU Status:**

**Symbol:** Harmful (Xn)

**EEC**

R20/22- Harmful by inhalation and if swallowed.  
S20/22 – When using do not eat, drink or smoke.  
S20/23 – Do not breathe dust or spray.  
S24/25 – Avoid contact with skin.  
S38 – in case of insufficient ventilation wear suitable respiratory equipment.

**WHMIS Status:** Not controlled

## SECTION 16 – ADDITIONAL INFORMATION:

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