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# SAFETY DATA SHEET

## Copper & Encapsulated Cadmium Glazes

CONTACT NUMBER: 01243 265845

### SECTION 1 - PRODUCT INFORMATION

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FANTASY CRYSTALS: FC010, FC013, FC015

### 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>
CdS	8-15%	12656-57-4 & 58339-34-7	0.01mg/m <sup>3</sup> (as Cd)	0.2mg/m <sup>3</sup> (as Cd)
Se	0-10%	7782-49-2	0.01 mg / m <sup>3</sup>	0.2 mg / m <sup>3</sup>

### SECTION 3 - PHYSICAL AND CHEMICAL PROPERTIES

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APPEARANCE:	Various collared 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.

### **CADMIUM–SULPHO-SELENIDE/CADMIUM**

Product contains insoluble cadmium pigments.

US OSHA has chosen to regulate occupational exposure to all cadmium compounds, including pigments, as a single category. The standard states that substances containing cadmium are a cancer hazard and can cause lung and kidney disease.

Cadmium and cadmium compounds are listed in the Annual NTP Report as carcinogenic to animals, but with only limited evidence of carcinogenicity to humans. This information is based on test results for cadmium compounds other than pigment forms.

Although certain cadmium compounds are known to cause kidney damage in humans and has been shown to cause lung cancer in laboratory animals, no chronic health effects have been shown to result from exposure to cadmium pigments. Cadmium pigments have been shown to be significantly less biologically available and less active than other cadmium compounds.

### **COMPONENT ANALYSIS LD50/LC50:**

#### **Cadmium Sulphide (12656-57-4 & 58339-34-7)**

Oral LD50 Rat: 7080 mg/kg

Oral LD50 Mouse: 1166 mg/kg

#### **Selenium (7782-49-2)**

Oral LD50 Rat: 6700 mg/kg

The product has not been tested. The statements on toxicology have been derived from products of a similar structure and composition.

### **CARCINOGENICITY**

This product may be carcinogenic to humans.

### **COMPONENT CARCINOGENICITY**

#### **Cadmium Sulphide (12656-57-4 & 58339-34-7)**

German DFG Category 2 (considered to be carcinogenic for man);  
(Listed under Cadmium and its compounds)

#### **Selenium (7782-49-2)**

IARC Supplement 7, 1987; Monograph 9, 1975 (Group 3 (not classifiable))  
German DFG Category 3B (could be carcinogenic for man)

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

## SECTION 6 – FIRE/EXPLOSION HAZARD

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

## SECTION 7 – ACCIDENTAL RELEASE MEASURES

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<b>Spillage:</b>	Uncontaminated material may be recovered and re-used. If contaminated, scoop, vacuum or wash into a receptacle for disposal.
<b>Waste Disposal:</b>	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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<b>ENGINEERING CONTROL:</b>	None
<b>WORK PRACTICES:</b>	Store away from food. Do not smoke, eat or drink while handling.
<b>PROCEDURE/EQUIPMENT:</b>	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.



**OTHER PROTECTION:** Wear appropriate clean, protective clothing such as, but not limited to overalls, smocks and aprons.

**WORK PRACTICES:** 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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**INCOMPATIBILITY:** N/A  
**STABILITY:** Stable.  
**HAZARDOUS DECOMPOSITION:** N/A  
**HAZARDOUS POLYMERISATION:** N/A  
**CONDITIONS TO AVOID:** Fumes from firing.

## SECTION 11 – TOXICOLOGY INFORMATION

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### USA

**Hazard to Humans:** None during normal use.

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.

**Primary routes of entry:** Inhalation of metal fumes during firing causing lung inflammation and damage to kidneys and nervous system. Ingestion may cause nausea. Eye contact is irritating and may cause conjunctivitis.

## SECTION 12 – ECOLOGICAL INFORMATION

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**MOBILITY:** N/A  
**PERSISTENCE/DEGRADABILITY:** N/A  
**BIOACCUMULATION:** N/A  
**ECOTOXICITY:** N/A

## SECTION 13 – DISPOSAL CONSIDERATIONS

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**WASTE DISPOSAL METHOD:** Follow Federal, State or Local regulations for disposal. Testing of waste may be required to



determine status under hazardous waste regulations.

**WASTE RESIDUE/UNUSED PRODUCT:** Can be land filled according to local regulations.

**CONTAMINATED PACKAGING:** Can be land filled according to local regulations.

## SECTION 14 – TRANSPORTATION

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Not regulated. Not dangerous cargo, not restricted by air.

**UN NUMBER:** N/A

## 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:** For Cadmium Compounds  
Harmful (xb)

**EEC**

R-20/22 Harmful by inhalation and if swallowed  
R-37/38 Irritating to respiratory system and skin  
S-20/21 When using do not eat, drink or smoke  
S-22 Do not breathe dust or spray  
S-24/25 Avoid contact with skin and eyes  
S-36/37 Wear suitable protective clothing and gloves  
S-45 In case of accident or if you feel unwell, seek medical advice immediately

The following components have labelling requirements under Council Directive 67/548/EEC, Annex I.

**Cadmium sulphide (1306-23-6)**

Annex #: 048-010-00-4 EINECS #: 215-147-8

**Classification:**

Toxic  
Carcinogen Category 3.

**Label Information:**

R-20/22 Harmful by inhalation and if swallowed  
R-40 Possible risk of irreversible effects.  
R-48/23/25 Toxic: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.  
R-53 May cause long-term adverse effects in the aquatic environment.  
S-1/2 Keep locked up and out of the reach of children.  
S-22 Do not breathe dust.  
S-36/37 Wear suitable protective clothing and gloves.



S-45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S-61 Avoid release to the environment. Refer to special instructions/ Safety Data Sheets.

**Notes:**

Concentrations are percentage by weight of metallic element calculated with reference to total weight of the preparation.

**Selenium (7782-49-2)**

Annex #: 034-001-00-2 EINECS #: 231-957-4

**Classification:**

Toxic

**Label Information:**

R-20/22 Harmful by inhalation and if swallowed

R-33 Danger of cumulative effects.

R-53 May cause long-term adverse effects in the aquatic environment.

S-1/2 Keep locked up and out of the reach of children.

S-20/21 When using do not eat, drink or smoke.

S-28 After contact with skin, wash immediately with plenty of ...

S-45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S-61 Avoid release to the environment. Refer to special instructions/ Safety Data Sheets.

**WHMIS Status:** Not controlled

## **SECTION 16 – ADDITIONAL INFORMATION:**

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