



SAFETY DATA SHEET

Leaded & Copper Glazes

CONTACT NUMBER: 01243 265845

SECTION 1 - PRODUCT INFORMATION

HIGH FIRE EXOTICS: HE001, HE005

SECTION 2 – HAZARDOUS INGREDIENTS

ENTITY	%	CAS NO	ACGIH TLV	OSHA PEL
LEADED FRIT	< 20%	65997-18-4	0.15 mg / m ³ (Pb)	0.05 mg / m ³ (Pb)
SILICA	0 - 6%	14808-60-7	0.01 mg / m ³	0.01 mg / m ³
CLAY	<15%	1302-78-9	N/A	N/A
COPPER CARBONATE	< 6%	12069-69-1	1.0mg / m ³	0.1 mg / M ³

SECTION 3 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Various Colours
ODOUR:	Negligible
BOILING POINT:	N/A
MELTING POINT:	> 400°C
VAPOUR PRESSURE:	N/A
SPECIFIC GRAVITY:	1.4 – 1.45 @ 25°C
FLASH POINT:	N/A
FLAMMABILITY LIMITS:	No data
SOLUBILITY IN WATER:	Negligible
VISCOSITY:	No data
pH:	7.0 – 8.5
VOLATILE ORGANIC COMP:	7 – 14%



SECTION 4 – HAZARDS IDENTIFICATION

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.

LEAD OXIDE

Frit contains lead. Prolonged or repeated inhalation and/or ingestion of lead containing frit may result in lead poisoning. Carcinogenicity: In IARC Supplement 7, inorganic lead compounds are given a 2B rating. This indicates "sufficient evidence" for carcinogenicity to animals and "inadequate evidence" for carcinogenicity to humans. California lists lead as a possible carcinogen and requires Prop. 65 warning as required.

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. Inhalation only if sprayed.

SECTION 5 – FIRST AID MEASURES

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

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

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. Lead is listed in US-EPA Code of Federal Regulations 40, Part 261.24. Testing of the waste may be required to determine status under hazardous waste regulations.

SECTION 8 – HANDLING AND STORAGE

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

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.

RESPIRATORY PROTECTION: Use NIOSH approved dust and/or fume respirator as necessary.
VENTILATION: Local Exhaust for spraying.
PROTECTIVE GLOVES: N/A
EYE PROTECTION: For spraying.
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

INCOMPATIBILITY: N/A
STABILITY: Stable.
HAZARDOUS DECOMPOSITION: N/A
HAZARDOUS POLYMERISATION: N/A
CONDITIONS TO AVOID: Fumes from firing, inhalation of spray.

SECTION 11 – TOXICOLOGY INFORMATION

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.

Prolonged or repeated inhalation and/or ingestion of lead containing frit may result in lead poisoning.

Carcinogenicity: In IARC Supplement 7, inorganic lead compounds are given a 2B rating. This indicates "sufficient evidence" for carcinogenicity to animals and "inadequate evidence" for carcinogenicity to humans.

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.



SECTION 12 – ECOLOGICAL INFORMATION

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

SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:	Follow Federal, State or Local regulations for disposal. Lead is listed in US-EPA Code of Federal Regulations 40, Part 261.24. 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

UN NUMBER: for soluble lead 2291, guide number 53

SECTION 15 – REGULATORY INFORMATION

Silica and lead are listed by California, Proposition 65
Silica and lead are 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: Toxic (T)

EEC
R20/22- Harmful by inhalation and if swallowed.
R33- Danger of cumulative effects.
R61- May cause harm to the unborn child.
R62- Possible risk of impaired fertility.
S36/37- Wear suitable protective clothing and gloves.
S44- If you feel unwell, seek medical advice (show the label when possible).
S53- Avoid exposure - obtain special instructions before use

WHMIS Status: Not controlled



SECTION 16 – ADDITIONAL INFORMATION:

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