



CLAYMAN

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SAFETY DATA SHEET

UNDERGLAZE COLOURS

PRODUCT NAME: UNDERGLAZE COLOURS –
UG117 – LIME

ISSUED: March 2007

Lead Free and Cadmium Free Colours

CONTACT NUMBER: 01243 265845

HAZARDOUS INGREDIENTS

| ENTITY | % | CAS NO | ACGIH TLV | OSHA PEL |
|--------------------|--------|---------------|-------------------------------|-------------------------------|
| ZIRCONIUM SILICATE | 0 – 9% | 10101-52-7 | 5 mg / m ³ (as Zr) | 5 mg / m ³ (as Zr) |
| CLAY/POTASH | < 15% | 1302-78-9 | N/A | N/A |
| CALCINED ALUMINA | 0 - 2% | 1344-28-1 | 10 mg / m ³ | 5 mg / m ³ |
| SILICA | 0 - 6% | 14808-60-7 0. | 1 mg / m ³ | 0.1 mg / m ³ |
| ZINC OXIDE | 0 - 6% | 1314-13-2 | 2 mg / m ³ | 5 mg / m ³ |

PHYSICAL AND CHEMICAL PROPERTIES

| | |
|------------------------|--------------------------------------|
| APPEARANCE: | Colour dependent on pigments present |
| ODOUR: | Negligible |
| BOILING POINT: | N/A |
| MELTING POINT: | > 400°C |
| VAPOUR PRESSURE: | N/A |
| SPECIFIC GRAVITY: | 1.2 – 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% |



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.

Routes of Entry: Ingestion. Absorption through skin negligible. Inhalation only if sprayed.

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.

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

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. Testing of the waste may be required to determine status under hazardous waste regulations.

HANDLING AND STORAGE

ENGINEERING CONTROL: None

WORK PRACTICES: Store away from food. Do not smoke, eat or drink while handling.

PROCEDURE/EQUIPMENT: None.

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.

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.

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

ECOLOGICAL INFORMATION

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

DISPOSAL CONSIDERATIONS

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.



**TRANSPORTATION
UN NUMBER:**

N/A

REGULATORY INFORMATION

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: -

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

WHMIS Status: Not controlled

ADDITIONAL INFORMATION:

This information is provided without warranty, representation, inducement or license of any kind, except that it is accurate to the best of knowledge of Clayman or obtained from sources believed to be accurate. Clayman does not assume any legal responsibility for use or reliance on same. Customers are encouraged to conduct their own tests before using any product. Read the product label.

END OF MATERIAL SAFETY DATA SHEET