



# CLAYMAN

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## SAFETY DATA SHEET

	<b>SUPERIOR BRUSH-ON GLAZES</b>
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<b>PRODUCT NAME:</b> SUPERIOR GLAZES – SG173 – TUSCANY BLUE	<b>ISSUED:</b> March 2006
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<b>UN NO:</b>	None Allocated	<b>D.G. CLASS:</b>	None Allocated	<b>CAS NO:</b>	None Allocated
<b>HAZCHEM:</b>	None Allocated	<b>SUB. RISK:</b>	None Allocated	<b>SUSDP:</b>	None Allocated
<b>G.T.EPG:</b>	None Allocated	<b>SPEC.EPG:</b>	None Allocated	<b>PACK.GRP:</b>	None Allocated

### OTHER NAMES:

Superior Glazes, Coloured Glazes

### INGREDIENTS:

CHEMICAL ENTITY:	CAS NO:	PROPORTION:
METAL OXIDES	Mixture	0 – 8%
FRITTED SILICA COMPOUNDS	-	< 53%
CLAYS	Various	0 - 3%
PIGMENT	Various	< 0.1%
GUM	-	< 1%
BIOCIDE	-	< 1%

Fritted Silica Compounds are a chemically reacted mixture of inorganic substances in the form of essentially insoluble glassy silicates. Glazes are mixtures of frit, inorganic materials, coloring oxides and small amounts of organic additives for application on ceramic substrates.

### USE:

#### MAJOR:

To decorate ceramic ware.

### METHODS OF APPLICATION:

N/A

### PHYSICAL DESCRIPTION/PROPERTIES:

<b>APPEARANCE:</b>	Colour dependent on Oxides present.
<b>ODOUR:</b>	Negligible.
<b>BOILING POINT:</b>	Not applicable
<b>MELTING POINT:</b>	> 400°C
<b>VAPOUR PRESSURE:</b>	Not applicable
<b>SPECIFIC GRAVITY:</b>	1.2 – 1.4 @ 25°C
<b>FLASH POINT:</b>	Not applicable
<b>FLAMMABILITY LIMITS:</b>	No data



<b>SOLUBILITY IN WATER:</b>	Miscible
<b>VISCOSITY:</b>	No data
<b>pH:</b>	7.0 – 8.5
<b>VOLATILE ORGANIC COMP:</b>	7 – 14%

#### **HEALTH HAZARD INFORMATION:**

##### **CRYSTALLINE SILICA**

Crystalline Silica may be present.

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

##### **ACUTE:**

<b>SWALLOWED:</b>	Expected to be a low ingestion hazard however may cause nausea.
<b>EYE:</b>	Prolonged or repeated contact may result in mild irritation or mechanical irritation.
<b>SKIN:</b>	Prolonged contact may result in mild irritation or mechanical irritation.
<b>INHALED:</b>	Inhalation not expected except if air brushing. May cause irritation and discomfort.

##### **CHRONIC:**

<b>SWALLOWED:</b>	-
<b>EYE:</b>	-
<b>SKIN:</b>	-
<b>INHALED:</b>	Heavy, prolonged or repeated exposure may cause delayed lung injury (silicosis). Silicosis is a form of disabling pulmonary fibrosis which can be progressive and may lead to death. Lung damage may aggravate other pulmonary conditions and disease and lead to increased susceptibility to pulmonary tuberculosis. Progressive massive fibrosis may be accompanied by right heart enlargement, heart failure and pulmonary failure.

##### **COMPOUND**

##### **ACUTE:**

<b>SWALLOWED:</b>	Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhoea.
<b>EYE:</b>	Prolonged or repeated contact may result in mild irritation or mechanical irritation.
<b>SKIN:</b>	Prolonged contact may result in mild irritation or mechanical irritation.
<b>INHALED:</b>	Dust from this product may cause irritation of the respiratory system. Overexposure may cause lung damage.

##### **FIRST AID:**

<b>SWALLOWED:</b>	Rinse mouth with water and drink plenty of water. Do not induce vomiting. Seek medical attention.
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**EYE:** Irrigate with copious amounts of water for at least 15 minutes.

**SKIN:** Seek medical attention if irritation persists.  
Wash thoroughly with soap and water.  
Remove contaminated clothing and wash before re-use.  
If irritation occurs, seek medical attention.

**INHALED:** Remove victim immediately from exposure. If breathing has stopped, apply artificial respiration.  
Seek medical attention.

**ADVICE TO DOCTOR:**  
Treat symptomatically.

**COMPONENT ANALYSIS LD50/LC50:**  
Oral LD50 (Rat): N/A  
Dermal LD50 (rabbit 4 hr): N/A  
Inhalation LC50 (Rat): N/A  
Acute Irritation to eye in rabbits: N/A

**PRECAUTIONS FOR USE:**  
**EXPOSURE STANDARDS:**

Exposure Standards (air)

CAS#: 14808-60-7      Silica, crystalline, quartz  
(OSHA PEL 0.1mg/m<sup>3</sup>)

Frit is produced by rapidly quenching a molten mixture of inorganic substances in glassy form at high temperature, thereby confining the various components into the frit as chemically reacted non-migratory components in the form of silicates or other essentially insoluble complexes. Frit therefore does not necessarily have any of the properties of its component oxides or metals.

When *air brushing*, to avoid inhalation of air borne particles, it is advised that a proper face mask is worn that is NIOSH approved and that the air-brushing takes place in a spray booth equipped with an exhaust fan.

In addition, it is also advised that eating food, smoking, drinking or applying cosmetics at any time while working with ceramic materials may constitute a health hazard and is not advised under any circumstances.

Superior Glaze Colours used on food-ware must not be prone to crazing or shivering to preserve the integrity of the ceramic-ware. Ceramic-ware not meeting this requirement cannot be considered food safe and therefore should not be used for this purpose.

**ENGINEERING CONTROLS:**

Ensure that workplace is ventilated and that air brushing takes place in a spray booth equipped with and exhaust fan. Store away from sunlight and keep containers closed when not in use.

**PERSONAL PROTECTION:**

PERSONAL PROTECTION GUIDE: COTTON OVERALLS, GLOVES & GLASSES.  
Avoid eye contact and repeated or prolonged skin contact. Wear overalls, safety glasses and impervious gloves. During air brushing wear protective mask meeting the requirements of the NIOSH. Always wash hands before smoking, eating, drinking, applying makeup or using the toilet.

**FLAMMABILITY:**

Non flammable.

**ENVIRONMENT:**

Avoid contamination of natural waterways. Rather, cleaning of brushes and disposal should occur into settling tank for appropriate disposal and treatment.

**SAFE HANDLING INFORMATION:****STORAGE & TRANSPORT:**

Not classified as dangerous for storage and transport.  
Keep lid tightly closed when not in use.  
Store in cool dry place.

**SPILLS & DISPOSAL:**

Wear protective clothing and equipment. Soak up large spills with absorbent material. Flush away small spills with copious amounts of water only for effluent treatment. Place waste in appropriately labeled bins for disposal. Must be disposed of according to approved landfill in accordance with local regulations.

**FIRE/EXPLOSION HAZARD:****HAZARDS OF USE/STORAGE:**

None

**DANGEROUS DECOMPOSITION/COMBUSTION PRODUCTS:**

Hazardous decomposition products of heating and/or burning include CO<sub>2</sub>, CO, and various other organic & inorganic compounds. Plastic containers may also produce hazardous fumes.

Void fumes from firing by venting kiln area.

**PERSONAL PROTECTION:**

Wear breathing apparatus.

**REACTIVITY:**

Non reactive.

**FIRE EXTINGUISHING AGENTS:**

Use water spray, water fog, foam, CO<sub>2</sub>, or dry chemical.



## **TOXICOLOGICAL 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.

### **EU**

Contains CRYSTALLINE SILICA.

DO NOT SPRAY.

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

## **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- None

WHMIS Status: Not Controlled

## **OTHER INFORMATION:**

### **OTHER SOURCES OF INFORMATION:**

Silica has been classified as a probable human carcinogen by the Occupational Health and Safety organisation and the International Agency for Research on Cancer.



All information contained in this data sheet is as accurate and up-to-date as possible. Clayman cannot anticipate or control the conditions under which this information may be used. Each user should review the information in the specific context of the intended application.

If clarification or further information is needed to ensure that an appropriate assessment of intended application can be made, the user should contact Clayman.

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**END OF MATERIAL SAFETY DATA SHEET**