SAFETY DATA SHEET

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product: Yellow Glaze

Product Use: A cone 06 ceramic glaze for use on earthenware.

Date Prepared: Aug. 1, 2017

Manufacturer and Supplier:



The Pottery Supply House Limited

1120 Speers Road

Oakville, ON, Canada L6L 2X4

Tel.: 1-800-465-8544

Emergency Tel.: Not available

SECTION 2. HAZARDS IDENTIFICATION



Classification:

Carcinogen Category 1A

Specific Target Organ Toxicity – Repeated Exposure Category 1

Warning: Contains crystalline silica.

May cause cancer by inhalation.

Causes damage to lungs through prolonged or repeated exposure by inhalation.

Do not breathe dust, mist or fume.

In case of inadequate ventilation, wear respiratory protection.

Emergency Overview: Not acutely hazardous. Chronic exposure to respirable particulates may cause lung disease.

SECTION 3. COMPOSITION INFORMATION ON INGREDIENTS

Component	CAS#	Percentage	LD 50	LC 50	
Crystalline silica (quartz)	14808-60-7	0.1 - 1.0	>22,500 mg/kg Oral, Rat	Not available	
Frit ¹	65997-18-4	30 -60	2000 mg/kg (Oral, rat)	Not available	
Kaolin ²	1332-58-7	3 - 7	Not available	Not available	
Zirconium praseodymium zircon	68187-15-5	3 – 7	> 2200 mg/kg (Oral, Rat)	> 5.5 mg/L air (rats; 4 hours)	
1 Glass containing fused oxides of aluminum, boron, calcium, silicon and sodium, 2 Aluminum silicate mineral					

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SECTION 4. FIRST AID MEASURES

Procedures Skin contact: Wash off immediately with soap and plenty of water. Remove and wash contaminated

clothing before re-use. If symptoms persist, call a physician.

Eve contact: Wash immediately with plenty of water. If irritation persists, seek medical attention.

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.

Ingestion: Only if victim is conscious, give plenty of water. Do not induce vomiting. Consult a

physician if necessary.

SECTION 5. FIRE FIGHTING MEASURES

Conditions of flammability: Not flammable.

Extinguishing media, means of extinction: Product is not flammable or combustible. Use extinguishing media appropriate

for surrounding fire.

Specific hazards arising from the product: Irritating gases and vapors. Metal compounds.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Procedures to be followed in case of leak or spill: Discard any product, residue, disposable container or liner in compliance with regulatory requirements.

SECTION 7. HANDLING AND STORAGE

Handling procedures and equipment: Avoid dust/mist formation. Do not breathe dust or mist. If spraying, use adequate exhaust ventilation. Keep airborne dust/mist concentrations below permissible exposure limits. In case of insufficient ventilation, wear a respirator approved for silica dust when spraying. Practice good housekeeping. Do not permit dust to collect on walls, floors, sills, ledges, machinery, or equipment. When firing, use adequate kiln ventilation.

Storage: No special requirement. To prevent possible container damage, keep from freezing.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA (Ontario) **Exposure limits:**

Crystalline silica (quartz)	0.1 mg/m³ (respirable)	
Frit	10 mg/m³ (PNOS*)	
Kaolin	2 mg/m^3	
Zirconium praseodymium zircon	5 mg/m³ (zirconium compound)	
* PNOS: Particles (insoluble or poorly soluble) not otherwise specified		

Specific engineering controls to be used: Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s). Ensure that eye washing facilities are nearby. If spraying, use a ventilated spray booth to minimize exposure to respirable mist. When firing, use adequate kiln ventilation.

Personal protective equipment to be used: In case of exposure to dust, and in any case if such exposure is above_ regulatory limits (see above), wear a personal respirator.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid/solid suspension.

Odour and appearance: Opaque, pale yellow fluid with mild odour.

Odour threshold: Not applicable. **Specific gravity:** Approximately 1.6. Vapour pressure: Not applicable. Vapour density: Not applicable. Evaporation rate: Not available.

Boiling point: About 100°C for the liquid (water) portion. >1250°C for the solids portion.

Freezing point: About 0°C for the liquid (water) portion.

Decomposition temperature: Not available.

PH: Not available.

Solubility: Solids portion is insoluble in water.

Partition coefficient: Unavailable.

Viscosity: Not available.

Coefficient of water/oil distribution: Not available. Flash point and method of determination: Not applicable.

Flammability: Not flammable.

Upper flammable limit: Not applicable. Lower flammable limit: Not applicable. **Auto-ignition temperature:** Not applicable.

Explosion data – sensitivity to mechanical impact: Not explosive. Not sensitive. **Explosion data – sensitivity to static discharge:** Not explosive. Not sensitive.

SECTION 10. STABILITY AND REACTIVITY

Reactivity: Not reactive under normal use conditions. Chemical stability: Stable under normal use conditions.

Conditions to avoid: None known. **Incompatible materials:** None known.

Hazardous decomposition products: None if stored normally. Thermal decomposition can produce irritating gases and

vapors including oxides of carbon, nitrogen, and sulfur as well as toxic metal compounds.

Possibility of hazardous reactions: Unlikely in normal use.

SECTION 11. TOXICOLOGICAL INFORMATION

Potential Health Effects:

Route of entry: Skin contact: May cause skin irritation.

Skin absorption: Not absorbed through the skin. **Eye contact:** May cause abrasion of the cornea.

Inhalation: Contains crystalline silica (quartz). Chronic exposure may cause silicosis, cancer and other disorders. Dust or fumes from firing are irritating to the respiratory tract. The risk of exposure to

hazardous respirable dust is low given that this product is typically applied by brush, contains a binder that

reduces the risk of dusting when dry, and has a very low crystalline silica content.

Ingestion: Not acutely hazardous. May cause gastrointestinal upset.

Effects of acute exposure to product: No effects expected.

Effects of chronic exposure to product: Excessive inhalation of fumes or dust may cause chemical pneumonitis, cyanosis, and pulmonary edema. Respirable crystalline silica (quartz) can cause:

A. SILICOSIS The major concern is silicosis, caused by the inhalation and retention of respirable crystalline silica dust. Chronic or Ordinary Silicosis is the most common form of silicosis, and can occur after many years of exposure to relatively low levels of airborne respirable crystalline silica dust. Symptoms, if present, are shortness of breath, wheezing, cough and sputum production and may be associated with decreased and disabling lung function and death. It may lead to heart disease secondary to the lung disease.

- B. CANCER IARC The International Agency for Research on Cancer ("IARC") concluded that there was "sufficient evidence in humans for the carcinogenicity of crystalline silica in the forms of quartz or cristobalite from occupational sources".
- C. AUTOIMMUNE DISEASES Several studies have reported excess cases of several autoimmune disorders, -- scleroderma, systemic lupus erythematosus, rheumatoid arthritis -- among silica-exposed workers.
- D. TUBERCULOSIS Individuals with silicosis are at increased risk to develop pulmonary tuberculosis, if exposed to persons with tuberculosis.
- E. KIDNEY DISEASE Several studies have reported excess cases of kidney diseases, including end stage renal disease, among silica-exposed workers.
- F. NON-MALIGNANT RESPIRATORY DISEASES There are studies that disclose an association between dusts found in various mining occupations and non-malignant respiratory diseases including chronic bronchitis, emphysema and small airways disease, particularly among smokers.

Irritancy of the product: Not a likely irritant.

Sensitization of the product: No information available.

Carcinogenicity of the product: Crystalline silica (quartz) inhaled from occupational sources is classified by IARC as carcinogenic to humans. Zircon contains trace quantities of naturally occurring radioactive uranium, thorium and radium (106-120 Pico curies/gram). Overexposure to respirable dusts containing radioactive uranium, thorium and radium may cause lung cancer.

Reproductive toxicity: No information available.

Teratogenicity: No information available. **Mutagenicity:** No information available.

Name of toxicologically synergistic products: None known.

LD50: Not established for this product. See Section 3 for information on ingredients. **LC50:** Not established for this product. See Section 3 for information on ingredients.

SECTION 12. ECOLOGICAL INFORMATION

No data available for this product. No specific adverse effect known.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal: Waste must be disposed of in accordance with federal, provincial and local environmental control regulations.

SECTION 14. TRANSPORT INFORMATION

Special shipping information: None.

SECTION 15. REGULATORY INFORMATION

This product has been classified

Carcinogen Category 1A

Specific Target Organ Toxicity - Repeated Exposure Category 1

in accordance with the hazard criteria of WHMIS 2015 and the SDS contains all of the information required by those regulations.

SECTION 16. OTHER INOFRMATION

Preparation information: Prepared by Jon Walls.

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