

SAFETY DATA SHEET

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product: Coppermican Sky Glaze

Product Use: A cone 6 ceramic glaze for use on porcelain and stoneware clay bodies.

Date Prepared: Apr. 27, 2018

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

Acute Aquatic Toxicity Category 1

Chronic Aquatic Toxicity Category 1

Warning: Contains crystalline silica:

May cause cancer by inhalation.

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

Contains cobalt compound: may cause allergic skin reaction.

Very toxic to aquatic life with long lasting effects.

Do not breathe dust, mist or fume. Avoid skin contact.

In case of inadequate ventilation, wear respiratory protection

Avoid release to the environment.

Collect spillage.

Dispose of contents/container in accordance with local/national/international regulations.

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	3– 7	>22,500 mg/kg (Oral, Rat)	Not available
Frit ¹	65997-18-4	15 – 40	2000 mg/kg (Oral, rat)	Not available
Kaolin ²	1332-58-7	5– 10	Not available	Not available
Titanium dioxide	13463-67-7	1 – 5	>10000 mg/kg Oral, Rat	Not Available
Ferric-Ferrous Oxide	1317-61-9	0.1 – 1.0	Not Available	Not Available
Cupric oxide	1317-38-0	0.5 – 1.5	Not available	Not available
Cobalt silicate olivine	68187-40-6	0.1 – 1.0	1630 mg/kg (Oral, rat)	>5.3 mg/L air (rats; 4 hours)

1. Glass containing fused oxides of aluminum, boron, calcium, silicon and sodium. 2. Aluminum silicate mineral.

SECTION 4. FIRST AID MEASURES

Procedures **Skin contact** (mechanical irritant): Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. If symptoms persist, call a physician.

Eye contact (mechanical irritant): Wash immediately with plenty of water. If irritation persists, seek medical attention.

Inhalation: No specific first-aid is generally necessary since the adverse health effects associated with exposure to crystalline silica (quartz) result from chronic exposures.

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: Metal compounds. Oxides of carbon, sodium and irritating gases (<1%, total) may be liberated.

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

Exposure limits:

TWA (Ontario)

Frit	10 mg/m ³ (PNOS*)
Crystalline silica (quartz)	0.1 mg/m ³ (respirable)
Kaolin	2 mg/m ³
Titanium dioxide	10 mg/m ³
Ferric oxide	5 mg/m ³
Cupric oxide	1 mg/m ³ (dusts and mists, as copper)
Cobalt silicate olivine	0.02 mg/m ³ (inorganic cobalt compound) 0.1 mg/m ³ (crystalline silica, respirable)

* 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 gray 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: Contact with powerful oxidizing agents

Incompatible materials: Powerful oxidizing such as fluorine, chlorine trifluoride, and oxygen difluoride

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 and contains a binder that reduces the risk of dusting when dry.

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: May cause an allergic skin reaction (cobalt compound, <1%).

Carcinogenicity of the product: Crystalline silica (quartz) inhaled from occupational sources is classified by IARC as carcinogenic to humans. Titanium dioxide is possibly carcinogenic to humans through inhalation (IARC classification

Group 2B).

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

Cupric oxide is very toxic to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal: Do not empty into waterways. 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 INFORMATION

Preparation information: Prepared by Jon Walls.

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