



# Safety Data Sheet

## SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	<b>Blackstone</b>
<b>Other Means of Identification</b>	Not available
<b>Recommended Use</b>	Modelling clay
<b>Restrictions on Use</b>	None known
<b>Initial Supplier Identifier</b>	Tucker's Pottery Supplies Inc., Cone Art Kilns Inc. 15 West Pearce Street Richmond Hill, ON L4B 1H6 CA Phone: Toll Free 1-800-304-6185 Phone: 905-889-7705
<b>Emergency Telephone Number</b>	613-996-6666 (CANUTEC)

## SECTION 2. HAZARD IDENTIFICATION

<b>Health hazards</b>	Not classified
<b>Physical hazards</b>	Carcinogenicity Specific target organ toxicity, repeated exposure
<b>Environmental hazards</b>	Not classified
<b>Label Elements</b>	



<b>Other Hazards</b>	None known
----------------------	------------

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration	Classification
Crystalline Silica (quartz)	14808-60-7	5-15%	Carcinogenicity, STOT
Kaolinite	1332-58-7	10-30%	Nuisance dust
Sodium potassium aluminosilicate (feldspar group)	37244-96-5	1-5%	Not classified

## SECTION 4. FIRST-AID MEASURES

<b>Inhalation</b>	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
<b>Skin Contact</b>	Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.
<b>Eye Contact</b>	Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.
<b>Ingestion</b>	Rinse mouth. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious or is convulsing. Obtain medical attention.
<b>Most Important Symptoms and Effects, Acute and Delayed</b>	Prolonged exposure may cause chronic effects.
<b>Immediate Medical Attention and Special Treatment</b>	Provide general supportive measures and treat symptomatically. Symptoms may be delayed. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

## SECTION 5. FIRE-FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide.
<b>Unsuitable Extinguishing Media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific Hazards Arising from the Product</b>	During fire, gases hazardous to health may be formed.
<b>Special Protective Equipment and Precautions for Fire-Fighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions, Protective Equipment, and Emergency Procedures</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised. If significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
<b>Methods for Containment and Cleaning Up</b>	Stop the flow of material, if this is without risk. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

## SECTION 7. HANDLING AND STORAGE

<b>Precautions for Safe Handling</b>	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. When using, do not eat, drink or smoke. Avoid prolonged exposure. Wear appropriate personal protective equipment. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. When using do not eat or drink.
<b>Conditions for Safe Storage</b>	Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational exposure limits

Occupational Exposure Limits – Ontario (Reg. 833, Control of Exposure to Biological or Chemical Agents)

Components	CAS Number	Type	Value	Form
Crystalline Silica (Quartz)	14808-60-7	TWA	0.1 mg/m <sup>3</sup>	Respirable fraction
Kaolin (Kaolinite)	1332-58-7	TWA	2 mg/m <sup>3</sup>	Respirable fraction
Kyanite	1302-76-7	TWA	1 mg/m <sup>3</sup>	Respirable fraction
Manganese Compounds	7439-96-5*	TWA	0.2 mg/m <sup>3</sup>	Fume & respirable dust
Iron Oxides	1317-61-9	TWA	5 mg/m <sup>3</sup>	Fume or respirable dust

### Notes

#### Appropriate Engineering Controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Individual Protection Measures

##### Eye/Face Protection

Wear safety glasses with side shields.

##### Skin Protection

Impervious gloves. Confirm with reputable supplier first.

Use of an impervious apron is recommended. As required by employer code.

#### Respiratory Protection

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Physical state

Moist mud

#### Colour

Dark brown

#### Odour

Earthy

#### Melting Point and Freezing Point

Not available

#### Boiling point or Initial Boiling Point and Boiling Range

Not available

#### Flammability

Not available

#### Upper and Lower Flammability or Explosive Limit

Not available

#### Flash point

#### Auto-ignition temperature

Not available

#### Decomposition Temperature

Not available

#### pH

Not available

#### Kinematic Viscosity

Not available

#### Solubility

Not available

#### Partition Coefficient, n-Octanol / Water

Not available

(Log Kow)

Vapour Pressure

Not available

Density and Relative density

Not available

Relative Vapour Density

Not available

## SECTION 10. STABILITY AND REACTIVITY

**Reactivity**

This product may react with strong oxidizing agents.

**Chemical Stability**

No dangerous reaction known under conditions of normal use.

**Possibility of Hazardous**

Material is stable under normal conditions.

**Reactions**

**Conditions to Avoid**

Do not mix with other chemicals.

**Incompatible Materials**

Powerful oxidizers. Chlorine.

**Hazardous Decomposition**

May include and are not limited to: Hydrofluoric acid. Silicon tetrafluoride.

**Products**

## SECTION 11. TOXICOLOGICAL INFORMATION

### Likely Routes of Exposure

- ✓ Inhalation
- Skin contact
- Eye contact
- Ingestion

### Acute Toxicity

Toxicity Type	Value	Notes
LC50 (inhalation)	Not established	This product is not acutely toxic by inhalation, but chronic effects apply.
LD50 (oral)	>5,000 mg/kg	Based on kaolin and clay minerals – considered non-toxic by ingestion.
LD50 (dermal)	>5,000 mg/kg	Low toxicity by skin contact.

### Toxicological effects

Effect	Classification	Notes
Skin Corrosion / Irritation	Not classified	Not expected to cause significant irritation. May cause dryness on prolonged contact.
Serious Eye Damage / Irritation	Not classified	May cause mechanical irritation due to dust particles.
STOT – Single Exposure (respiratory irritation)	Category 3	Inhalation of dust may cause temporary respiratory irritation.
Aspiration Hazard	Not applicable	Product is a solid, aspiration hazard not relevant.
STOT – Repeated Exposure (e.g. silicosis)	Category 1	Contains crystalline silica (quartz). Repeated inhalation may cause lung damage (H372).
Respiratory and/or Skin Sensitization	Not classified	No known sensitizing effects reported.

## Carcinogenicity

In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However, in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled. High concentrations of pigment-grade (powdered) and ultra-fine titanium dioxide (titanium oxide) dust have caused respiratory tract cancer in rats exposed by inhalation and intratracheal instillation.

## Carcinogenic Classification

Chemical Name	IARC Classification	ACGIH® TLV® Category	OSHA Carcinogen?
Crystalline Silica (Quartz)	Group 1 – Carcinogenic to humans	A2 – Suspected human carcinogen	Yes (Listed carcinogen)
Kaolinite (Kaolin Clay)	Group 3 – Not classifiable as to carcinogenicity	A4 – Not classifiable as a human carcinogen	No

## Reproductive & Genetic Toxicology

Endpoint	Classification	Notes
Reproductive Toxicity – Development of Offspring	Not classified	No ingredients in this product are known to cause developmental toxicity.
Reproductive Toxicity – Sexual Function and Fertility	Not classified	No evidence of effects on fertility from any listed components.
Reproductive Toxicity – Effects on or via Lactation	Not classified	No known effects reported via lactation from any components.
Germ Cell Mutagenicity	Not classified	No components are known mutagens. Crystalline silica is not mutagenic.

## SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity** See below

Components	Species	Test results
Silica (CAS 7631-86-9)		
Algae	IC50	440 mg/L, 72 Hours
Crustacea	EC50	7600 mg/L, 48 Hours

Titanium oxide (CAS 13463-67-7)

**Aquatic**

Crustacea

Fish

EC50

LC50.

Water flea (*Daphnia magna*)

Mummichog (*Fundulus heteroclitus*)

> 1000 mg/L, 48 hours

> 1000 mg/L, 96 hours

**Persistence and Degradability** No data is available on the degradability of this product.

**Bioaccumulative Potential** No data available.

**Mobility in Soil** No data available.

**Other Adverse Effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## SECTION 13. DISPOSAL CONSIDERATIONS

**Disposal instruction** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues/ unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Technical Name (for N.O.S. entry)	Transport Hazard Class(es)	Packing Group
<b>TDG (Canada)</b>	Not Regulated	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<b>DOT (USA)</b>	Not Regulated	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<b>IATA (Air)</b>	Not Regulated	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<b>IMDG (Marine)</b>	Not Regulated	Not Applicable	Not Applicable	Not Applicable	Not Applicable

### Additional Information

- Special Precautions: None known.
- Environmental Hazards: Not considered environmentally hazardous for transport under current regulations.

## SECTION 15. REGULATORY INFORMATION

### Canadian Regulations (WHMIS 2015 / HPR)

This product is not classified as hazardous under the Hazardous Products Regulations (HPR) in its shipped form (moist clay). However, crystalline silica is a component and may pose a hazard if the clay is dried and inhaled as dust.

- DSL/NDSL: All ingredients are listed or exempt.
- WHMIS Classification: Not classified
- Crystalline Silica (Quartz):
  - CAS 14808-60-7
  - Listed on the Ingredient Disclosure List (IDL)
  - IARC Group 1: Carcinogenic to humans (via inhalation of dust)

### U.S. Regulations (OSHA / TSCA)

- OSHA HazCom 2012: Not classified as hazardous in moist form. Dust from dried product may be classified as STOT RE 1 (lung effects from crystalline silica).
- TSCA Inventory: All components are listed or exempt.
- California Proposition 65:

This product contains crystalline silica, a substance known to the State of California to cause cancer by inhalation.

## SECTION 16. OTHER INFORMATION

**Issue date:** July 2, 2025

**Version Number:** 1.0

**Prepared by:** Tucker's Pottery Supply – Technical & Safety Department

### Abbreviations and Acronyms:

- SDS – Safety Data Sheet
- WHMIS – Workplace Hazardous Materials Information System
- GHS – Globally Harmonized System
- PEL – Permissible Exposure Limit (OSHA)
- TLV – Threshold Limit Value (ACGIH)
- TWA – Time-Weighted Average
- STEL – Short-Term Exposure Limit
- CAS – Chemical Abstracts Service
- N/A – Not Applicable
- N/E – Not Established