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# Material Safety Data Sheet

## Plainsman Fireclay

Further Physical Properties and Descriptive Literature is Available on Request or On Our Web Site

### Section 1 - Product Information

**Product Name:** Plainsman Fireclay  
**Description:** Clay/Mineral blend used for Pottery (dry powder)  
**Product Use:** Pottery  
**CEPA Status:** All ingredients listed on Canadian domestic substances list (DSL)

**WHMIS Class:**  
 No hazardous classes apply  
**EPA TSCA Status:**  
 All ingredients are included in the inventory

### Section 2 - Hazardous Ingredients

Hazardous Ingredient	%	CAS Number	OSHA PEL	ACGIH TLV
*Respirable Free Silica (Quartz)		14808-60-7	3 mg/m <sup>3</sup>	0.1 mg/m <sup>3</sup>
*Barium Carbonate	0.1	513-77-9	0.5 mg/m <sup>3</sup>	0.5 mg/m <sup>3</sup>

\*Note: Free Silica is not a hazard in moist or wet form, it is only a hazard if clay is dry and dust is generated.

### Section 3 - Physical Data

**Physical State:** Solid

**Physical Properties Not Applicable:**

**Odour and Appearance:**  
 Light grey powder

Odour Threshold, Vapour Pressure & Density, Evaporation Rate, Boiling Point, Freezing Point, pH, Specific Gravity, Coeff. Water/Oil Dis.

\*'pugged' refers to the wet plastic material

### Section 4 - Fire and Explosion Data

**Flammability:**  Yes  No Consider dust as Non-Flammable and Non-Explosive

**Non-Applicable Data:** Means of Extinction, Flashpoint and Method, Autoignition Temperature, Upper Flammable Limit, Lower Flammable Limit, Hazardous Combustion Products, Sensitivity to Impact, Sensitivity to Static Discharge

**Products of Decomposition During Kiln Burning:** Carbon Monoxide, Carbon Dioxide and possible traces of Sulfur Dioxide. Vent kiln during firing.

### Section 5 - Reactivity Data

**Chemical Stability:**  Yes  No **Conditions of Instability:** None **Solubility in Water:** No

**Incompatibility with Other Substances:**  Yes  No **Incompatible Substances:** None

**Hazardous Decomposition Products:** See section 4

**Reactivity, and Under What Conditions:** Inert and Non-Reactive

Product Identifier: Plainsman Fireclay

## Section 6 - Toxicological Properties

Route of Entry:  Skin Contact  Skin Absorption  Eye Contact  Inhalation  Ingestion

Effect of Acute Exposure to Product: A nuisance dust, heavy exposure may cause mechanical irritation of the respiratory tract.

Irritancy of Product: Mechanical Irritant Only

Non-Applicable Properties: Sensitization, Teratogenicity, Reproductive Toxicity, Mutagenicity

Effects of Chronic Exposure to Respirable Quartz Dust: IARC has found evidence for the carcinogenicity of crystalline quartz. Avoid prolonged or repeated inhalation of dust. Long term exposure may cause silicosis.

Exposure Limits to Quartz: TLV = 0.1 mg/m<sup>3</sup> respirable crystalline silica

Synergistic Products: Tobacco smoke will increase lung damage

## Section 7 - Preventive Measures

### Personal Protective Equipment

Gloves: Not Req'd	Special Clothing: Not Req'd	Eye: May cause mechanical irritation on direct contact or where contact lenses are worn in high dust conditions
Footwear: Not applicable unless wet material is a slip hazard	Respirator (Specify): Approved Respirator where TLV exceeded	

Ventilation: Local exhaust or other ventilation that will reduce dust concentration to less than permissible exposure limits is recommended

Leak and Spill Procedure: Aqueous slurry is a slipping hazard. If dry minimize excessive dust generation, if sweeping use dust suppressant.

Skin Contact: Wash with water.

Waste Disposal at Landfill: Treat this as a blend of naturally occurring minerals.

Storage Requirements: No special requirements, store powders in dry area.

Special Shipping Information: Not required.

Education: Many governments require that personnel working with crystalline silica receive training in safe work habits, respiratory protection and health risks.

Clothing: Do not wear clothing dusted with this product in your home.

## Section 8 - First Aid Measures

Skin - Wash with water

Eyes - Flush with running water until material is removed

## Section 9 - Preparation Data of MSDS

Prepared by  
Plainsman Clays Limited

Phone Number  
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