



**PLAINSMAN** Clays  
Limited

Box 1266, Medicine Hat, Alta. T1A 7M9  
Phone 403-527-8535 FAX 527-7508  
http://www.plainsmanclays.com

# Material Safety Data Sheet

## Helmer Kaolin

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

### Section 1 - Product Information

Product Identifier: Kaolinite/Halloysite  
Product Use: Clay body ingredient  
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	LD <sub>50</sub> of Ingredient	LC <sub>50</sub> of Ingredient
*Respirable Free Silica (Quartz)	0-5	14808-60-7	N/A	N/A

\*Note: Free Silica is not a hazard in moist 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.

### 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: Helmer Kaolin

### 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.

Effects of Chronic Exposure to Product:  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 TLV = 0.1 mg/m <sup>3</sup> respirable dust	Non-Applicable Properties Sensitization, Teratogenicity, Reproductive Toxicity, Mutagenicity
	Irritancy of Product Mechanical Irritant Only	
	Synergistic Products Tobacco smoke will increase lung damage	

### Section 7 - Preventive Measures

#### Personal Protective Equipment

Gloves (Specify): Not Req'd	Respirator (Specify): Approved Respirator where TLV exceeded	Eye (Specify): Safety glasses for comfort only
Footwear (Specify): Not Req'd	Clothing (Specify): Not Req'd	Other (Specify): None

Engineering Controls (Specify):	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.
Waste Disposal:	Landfill (this is a blend of naturally occurring minerals).
Handling Procedures and Equipment:	Controls should be used to maintain "free" silica dust exposure levels below TLV.
Storage Requirements:	No special requirements.
Special Shipping Information:	Not required.

### Section 8 - First Aid Measures

#### Specific 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  
(403) 527-8535

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