

# **Material Safety Data Sheet Helmer Clay**

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

#### Section 1 - Product Information

Product Name: Helmer Clav

Product Identifier: Kaolinite/Halloysite min-

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

**OSHA PEL** 

**ACGIH TLV** 

\*Respirable Free Silica (Quartz)

14808-60-7

 $10 \text{ mg/m}^3$ 

 $0.05 \text{ mg/m}^3$ 

\*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

Conditions of Instability: None Solubility in Water: No

Incompatibility with Other Substances Tyes 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 me-

chanical 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/m³ respirable dust

Synergistic Products: Tobacco smoke will increase lung damage

#### **Section 7 - Preventive Measures**

#### Personal Protective Equipment

| Gloves: Not Req'd   | Special Clothing: Not Regid                                  | Eye: May cause mechani-<br>cal irritation on direct<br>contact or where contact<br>lenses are worn in high<br>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

Phone Number

Date Dec 1, 2003

Plainsman Clays Limited

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