

# Material Safety Data Sheet

For compliance with OSHA's 29 CFR 19101200 and Bill No. 70 WHMIS Hazard Communication Standards

## Section 1: COMPANY AND PRODUCT IDENTIFICATION

<b><u>Product Name:</u></b> Ball Clay CAS# 1332-58-7      EC# 310-194-1		<b><u>Trade Name:</u></b> Various Old Hickory Ball Clay Products	<b><u>Chemical Name:</u></b> Hydrous Aluminum Silicate $\text{Al}_2\text{O}_3$ ; $\text{SiO}_2$ + Trace Minerals (Less than 5%)
<b><u>Company Name and Address:</u></b> Old Hickory Clay Company Inc. P.O. Box 66, 962 State Route 1241 Hickory, KY 42051-0066			
		Telephone Number: (270) 247-3042 Facsimile Number: (270) 247-1842 E-Mail: <a href="mailto:ken@oldhickoryclay.com">ken@oldhickoryclay.com</a> Website: <a href="http://www.oldhickoryclay.com">http://www.oldhickoryclay.com</a>	

## Section 2: INGREDIENT COMPONENTS

<u>Component</u>	<u>Weight Percent (Typical)</u>	<u>CAS Number</u>	<u>EC Number</u>
Kaolinite	> 60	1318-74-7	215-286-4
Crystalline Silica (Non-combined quartz)	5-30	14808-60-7	238-878-4
Titanium Dioxide	< 3	13463-67-7	236-675-5
<b><u>Exposure</u></b>	<b><u>Limit</u></b>		
Respirable Crystalline Quartz	ACGIH-TLV: 0.025 mg/m <sup>3</sup> OSHA-PEL: 0.1 mg/m <sup>3</sup> NIOSH: 0.05 mg/m <sup>3</sup>		
Titanium Dioxide	ACGIH-TLV: 10 mg/m <sup>3</sup> OSHA-PEL: 15 mg/m <sup>3</sup>		

## Section 3: HEALTH HAZARD

### Health Hazard Warning:

Ball clays contain crystalline quartz, some of which is respirable, and this element may cause delayed respiratory disease if inhaled over a prolonged period of time. Avoid breathing dust. Use a NIOSH/MSHA approved respirator where TLV for crystalline quartz is exceeded. IARC Monograph Volume 68, 1997 concludes that crystalline quartz causes cancer in humans.

The National Toxicology Program (NTP), in the 11<sup>th</sup> Annual Report on Carcinogens, 2005, has included respirable crystalline silica on its list of substances that are "reasonably anticipated to be carcinogens".

NIOSH has identified crystalline silica as a potential occupational carcinogen using the OSHA classification system outlined in 29 CFR 1990.103.

Ball clays contain titanium dioxide. NIOSH has identified titanium dioxide as a potential occupational carcinogen.

### Route of Entry and First Aid

- Inhalation: Dust may irritate respiratory system. Move away from contaminated areas and consult a physician if breathing difficulties occur. Individuals with known respiratory disease or difficulties should avoid dust.
- Eye Contact: Minor dust quantities may irritate eye tissue. Flush eye(s) thoroughly with water and consult physician if symptoms persist.
- Skin Contact: No adverse effects are suspected to exist. Wash contaminated area with water and bath soap (optional).
- Ingestion: No negative effects are known to exist for incidental quantities of clay ingested into the stomach. For suspected large quantities, consult physician for advice.

<b>Section 4: PHYSICAL PROPERTIES</b>	
<p><b>Appearance:</b> Solid lump or powder form possessing shades of brown, cream white, or gray coloration.</p> <p><b>Specific Gravity:</b> 2.40-2.65</p> <p><b>pH:</b> 4.0 – 8.0</p>	<p><b>Odor:</b> Earth-like especially when containing appreciable moisture content.</p> <p><b>Solubility in Water:</b> Insoluble</p> <p><b>Melting Point:</b> &gt; 1500° C (Degrees Centigrade)</p>
<b>Section 5: REACTIVITY DATA</b>	
<p><b>Stability:</b> Stable</p> <p><b>Hazardous Decomposition:</b> Non-existent</p> <p><b>Fire and explosion:</b> Non-flammable</p>	<p><b>Incompatibility:</b> None known to exist</p> <p><b>Hazardous Polymerization:</b> Will not occur.</p>
<b>Section 6: SPILL, LEAK AND DISPOSAL PROCEDURES</b>	
<ul style="list-style-type: none"> <li>• If inadvertently spilled or leaked, reclaim product for intended use.</li> <li>• If the spilled product needs disposal, consult regulatory authorities. Under RCRA (40 CFR Part 261), ball clay is not considered a hazardous waste.</li> </ul>	
<b>Section 7: SPECIAL PROTECTION INFORMATION</b>	
<ul style="list-style-type: none"> <li>• Use NIOSH/MSHA approved dust masks if exposure exceeds TLV or PEL limits (see Section2).</li> <li>• Use local exhaust ventilation in areas subject to dust generation.</li> <li>• Use NIOSH/OSHA approved safety goggles when handling the product in dust generating processes.</li> <li>• In wet spraying applications, use NIOSH/OSHA approved dust/mist respirator.</li> </ul>	
<b>Section 8: TRANSPORTATION REQUIRMENTS</b>	
<ul style="list-style-type: none"> <li>• Ball Clay is non hazardous under DOT regulations.</li> </ul>	
<b>Section 9: ADDITIONAL REGULATORY INFORMATION</b>	
<ul style="list-style-type: none"> <li>• California Proposition 65: Ball clay contains crystalline quartz, some of which is respirable, and trace amounts of 2,3,7,8 TCDD (a dioxin) on a PPT (parts per trillion) basis have been detected.</li> <li>• These chemicals are recognized by the state of California to be carcinogenic elements. IARC Monograph Volume 69 states that 2,3,7,8 TCDD (a dioxin) is a carcinogen to humans.</li> <li>• Toxic Substances Control Act: The known and reported components of ball clay are included on the EPA TSCA Inventory.</li> <li>• European Commission <b>R</b>egistration, <b>E</b>valuation, <b>A</b>uthorization of <b>C</b>hemicals (REACH): The known and reported components of ball clay are included on the European Chemical Agency (ECHA) pre-registration substance list.</li> </ul>	

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