

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

Product Name:

Ball Clay
 CAS# 1332-58-7 EC# 310-194-1

Trade Name:

Various Old Hickory Ball Clay and
 Kaolin Products

Chemical Name:

Hydrous Aluminum Silicate
 Al₂O₃: SiO₂+ Trace Minerals
 (Less than 5%)

Company Name and Address:

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: ken@oldhickoryclay.com
 Website: <http://www.oldhickoryclay.com>

Recommended Use:

Used in ceramic body and glazes; as a general purpose filler in adhesives, rubber; refractories; electrode coatings.

SECTION 2: HAZARDS IDENTIFICATION

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 11th 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.

GHS-US labelling Hazard pictograms (GHS-US) :



GHS07

GHS08

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) :

H315 - Causes skin irritation

H320 - Causes eye irritation

H350 - May cause cancer (Inhalation)

Precautionary statements (GHS-US) :

P280 - Wear eye protection, Dust respirator, protective gloves

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337+P313 - If eye irritation persists: Get medical advice/attention

P260 - Do not breathe dust

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

<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

Section 4: FIRST AID MEASURES**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.

Section 5: FIRE FIGHTING MEASURES**Suitable Extinguishing Media:**

Use extinguishing media that are suitable for the surrounding combustible materials such as product packaging, as the clay product itself is not combustible.

Hazards from Fire:

Under fire conditions, this product may emit toxic and/or irritating fumes.

Precautions for Fire Fighters:

Fire fighters should wear appropriate PPE to prevent exposure to fumes.

Section 6: ACCIDENTAL RELEASE MEASURES

- If inadvertently spilled or leaked, reclaim product for intended use.
- Increase ventilation and wear sufficient respiratory protection during sweeping / transportation to appropriate container.
- If the spilled product needs disposal, consult regulatory authorities. Under RCRA (40 CFR Part 261), ball clay is not considered a hazardous waste.

Section 7: HANDLING AND STORAGE**Precautions for Safe Handling:**

Use in well ventilated areas. Keep containers sealed when not in use to prevent the buildup of dust in the work environment. Avoid inhalation of dust, as well as skin and eye contact. Maintain proper personal hygiene.

Conditions for Safe Storage:

Store in cool, dry, well-ventilated areas away from moisture. Keep containers tightly closed.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

- Use NIOSH/MSHA approved dust masks if exposure exceeds TLV or PEL limits (see below).

<u>Exposure</u>	<u>Limit</u>
Respirable Crystalline Quartz	ACGIH-TLV: 0.025 mg/m ³
	OSHA-PEL: 0.1 mg/m ³
	NIOSH: 0.05 mg/m ³
Titanium Dioxide	ACGIH-TLV: 10 mg/m ³
	OSHA-PEL: 15 mg/m ³

- Use local exhaust ventilation in areas subject to dust generation.
- Use NIOSH/OSHA approved safety goggles when handling the product in dust generating processes.
- In wet spraying applications, use NIOSH/OSHA approved dust/mist respirator.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Solid lump or powder form possessing shades of brown, cream white or gray coloration.

pH: 4.0 – 8.0

Odor: Earth-like especially when containing appreciable moisture content.

Specific Gravity: 2.40 - 2.65

Melting Point: > 1500° C (Degrees Centigrade)

Boiling Point: Not available

Flash Point: N/A

Flammability: Non-combustible solid

Flammable Limits: N/A

Auto-Ignition Temperature: N/A

Vapor Pressure: N/A

Vapor Density: N/A

Solubility in Water: Insoluble

Section 10: STABILITY AND REACTIVITY

Stability: Stable

Hazardous Decomposition: Non-existent

Fire and explosion: Non-flammable

Incompatibility: None known to exist

Hazardous Polymerization: Will not occur.

Section 11: TOXICOLOGICAL INFORMATION**Toxicology Information:**

This material contains crystalline silica.

Inhalation:

Harmful: danger of serious damage to health from prolonged exposure through inhalation. Immediate effects include irritation to nose, throat, and respiratory system.

Ingestion:

Ingestion of large amounts of the product could irritate the gastric tract.

Skin:

Skin contact may cause dryness of skin which could lead to irritation.

Eye:

Eye contact may cause irritation, and could cause minor abrasions.

Chronic Effects: Danger of serious damage to health by prolonged exposure from inhalation. Crystalline Silica can cause silicosis or other lung diseases from prolonged exposure. 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.

Carcinogenicity:

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.

Toxic Substances Control Act: The known and reported components of ball clay are included on the EPA TSCA Inventory.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Not available

Persistence and Degradability: Not available

Bioaccumulative Potential: Not available

Mobility: Not available

Section 13: DISPOSAL CONSIDERATIONS

Dispose of this material should be done in accordance with local and national regulations.

Section 14: TRANSPORT INFORMATION

Ball Clay is non-hazardous under DOT regulations.

Section 15: REGULATORY INFORMATION

- 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.
- 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.
- Toxic Substances Control Act: The known and reported components of ball clay are included on the EPA TSCA Inventory.
- European Commission Registration, Evaluation, Authorization of Chemicals (REACH): The known and reported components of ball clay are included on the European Chemical Agency (ECHA) pre-registration substance list.

Section 16: OTHER INFORMATION

This Material Safety Data Sheet is accurate according to believed reliable sources of information. Old Hickory Clay Company, Inc. assumes no responsibility for warranties expressed or applied and assumes no liability in connection with the use of this information. The information and data herein must be determined by the user to be in accordance with federal, state, and local laws and regulations including regions outside the jurisdiction of the USA, applies only to this product and does not relate in combination with other materials or in any process. The reported information is subject to change without notice.

MSDS Preparation issue date: 03/18/2015

Supersedes: December 4th, 2013

OHP: 7.2.120-1