## SAFETY DATA SHEET

### SECTION 1

**IDENTIFICATION**

**Product**

Name: Ball Clay (Applicable for all non-slurry clay products)

Other Names: Ball Clay; Kaolinite

Recommended Uses: Mineral filler; Ceramics

**Company Identification:**

H.C. Spinks Clay Company  
P.O. Box 820  
Paris, Tennessee 38242  
731-642-5414

**Emergency Phone Number:**  
Spinks 731-642-5414

### SECTION 2

**HAZARDS(S) IDENTIFICATION**

**Classification**  
Carcinogen – Category 1

Specific Target Organ Toxicity Single Exposure – Category 3  
(Respiratory System)

Specific Target Organ Toxicity Repeat Exposure – Category 1  
(Respiratory System)

**Labeling:**

**Pictograms:**

<table>
<thead>
<tr>
<th><img src="image" alt="Pictogram" /></th>
</tr>
</thead>
</table>

**Signal Word(s):** Danger

**Hazard Statements:**

May cause respiratory irritation.

Causes damage to lungs through prolonged or repeated exposure when inhaled.

May cause cancer through inhalation.
Precautionary Statements:

Wash exposed skin thoroughly after handling. Do not breathe dust. Use only outdoors or in a well-ventilated area. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

If exposed or concerned: Get medical advice

Dispose of contents or containers in accordance with applicable regulations.

Other Hazards: None.

### SECTION 3  COMPOSITION/ INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>CAS #</th>
<th>Concentration, % Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ball Clay</td>
<td>1332-58-7</td>
<td>&gt; 67</td>
</tr>
<tr>
<td>Crystalline Silica</td>
<td>14808-60-7</td>
<td>&lt; 30</td>
</tr>
<tr>
<td>Titanium Dioxide</td>
<td>13463-67-7</td>
<td>&lt; 3</td>
</tr>
</tbody>
</table>

### SECTION 4  FIRST AID MEASURES

**Inhalation:** Move victim to fresh air. Seek medical attention if necessary.

**Ingestion:** Do not induce vomiting. Seek medical attention immediately. Never give anything by mouth unless instructed to do so by medical personnel.

Most important symptoms and effects, both acute and delayed: This product contains crystalline silica, which has been classified by IARC as (Group I) carcinogenic to humans when inhaled. Inhalation of silica can also cause a chronic lung disorder, silicosis.

Note to Physician: Provide general supportive measures and treat symptomatically.

### SECTION 5  FIREFIGHTING MEASURES

**Extinguishing Media**

Appropriate Extinguishing Media: Use dry chemical fire extinguisher or water

Inappropriate Extinguishing Media: None
Firefighting

Fire Hazards: Ball Clay is not combustible or flammable. Ball Clay is not considered to be an explosive hazard.

Hazardous Combustion Products: None

Special Protective Equipment and Fire Fighting Instructions: None

SECTION 6  ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use proper protective equipment.

Environmental Precautions: For large spills, as much as possible, avoid the generation of dusts. Prevent release to sewers or waterways.

Methods and Materials for Containment and Cleaning Up:

Small Spills: Use dry methods to collect spilled materials. Avoid generating dust. Do not clean up with compressed air. Residue on surfaces may be water washed.

Large Spills: Use dry methods to collect spilled materials. Evacuate area downwind of clean-up operations to minimize dust exposure.

SECTION 7  HANDLING AND STORAGE

Precautions for Safe Handling: None

Conditions for Safe Storage, Including any Incompatibilities: None

SECTION 8  EXPOSURE CONTROLS/ PERSONAL PROTECTION

Control Parameters:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ball Clay</td>
<td>1332-58-7</td>
<td>OSHA PEL: 15 mg/m3 (Total) 5 15 mg/m3 (Respirable)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH TLV: 10 mg/m3</td>
</tr>
<tr>
<td>Crystalline Silica</td>
<td>14808-60-7</td>
<td>OSHA PEL: 10 mg/m3 divided by (the percentage of silica in the dust plus 2) (respirable)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH TLV: 0.025 mg/m3 (Respirable)</td>
</tr>
<tr>
<td>Titanium Dioxide</td>
<td>13463-67-7</td>
<td>OSHA PEL: 15 mg/m3 (Total)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH TLV: 10 mg/m3</td>
</tr>
</tbody>
</table>

Appropriate Engineering Controls: Provide ventilation adequate to maintain PELs.
Personal Protection

    Respiratory Protection: Use NIOSH approved respirators if airborne concentration exceeds PEL.

    Eye Protection: Use safety glasses with side shields or safety goggles.

    Skin Protection: Clothing should fully cover arms and legs.

    Other: Eye wash fountain and emergency showers are recommended.

<table>
<thead>
<tr>
<th>SECTION 9</th>
<th>PHYSICAL AND CHEMICAL PROPERTIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td></td>
</tr>
<tr>
<td>Physical State:</td>
<td>Solid</td>
</tr>
<tr>
<td>Color:</td>
<td>White, grayish-white or black</td>
</tr>
<tr>
<td>Odor:</td>
<td>Earthy odor</td>
</tr>
<tr>
<td>Odor Threshold:</td>
<td>N/ A</td>
</tr>
<tr>
<td>pH:</td>
<td>5 - 7 @ 25° C</td>
</tr>
<tr>
<td>Melting Point:</td>
<td>N/A</td>
</tr>
<tr>
<td>Initial Boiling Point:</td>
<td>N/A</td>
</tr>
<tr>
<td>Freezing Point:</td>
<td>N/ A</td>
</tr>
<tr>
<td>Flash Point:</td>
<td>N/ A</td>
</tr>
<tr>
<td>Evaporation Rate:</td>
<td>N/ A</td>
</tr>
<tr>
<td>Flammability (solid, gas):</td>
<td>Non-flammable</td>
</tr>
<tr>
<td>Explosion Limits:</td>
<td>N/ A</td>
</tr>
<tr>
<td>Vapor Pressure:</td>
<td>N/ A</td>
</tr>
<tr>
<td>Vapor Density:</td>
<td>N/ A</td>
</tr>
<tr>
<td>Relative Density:</td>
<td>2.4 – 2.6 g/ cm³ (apparent)</td>
</tr>
<tr>
<td>Solubility(ies):</td>
<td>Not readily soluble in water</td>
</tr>
<tr>
<td>Partition coefficient:</td>
<td>Relatively insoluble</td>
</tr>
<tr>
<td>Auto-ignition Temperature:</td>
<td>N/ A</td>
</tr>
</tbody>
</table>
Decomposition Temperature: N/ A
Viscosity: N/ A

SECTION 10  STABILITY AND REACTIVITY

Reactivity: Normally stable.
Chemical Stability: Ball Clay is chemically stable.
Possibility of Hazardous Reactions: Normally stable
Conditions to Avoid: N/A
Incompatible Materials: None known

Hazardous Decomposition Products: None

SECTION 11  TOXICOLOGICAL INFORMATION

Health Effects: see First Aid discussion in Section 4
Routes of Exposure: see First Aid discussion in Section 4
Symptoms Related to Exposure: see First Aid discussion in Section 4
Carcinogen Listing: Ball Clay is not listed by MSHA, OSHA, or IARC as a carcinogen, but this product contains crystalline silica, which has been classified by IARC as (Group I) carcinogenic to humans when inhaled.

SECTION 12  ECOLOGICAL INFORMATION

Ecotoxicity: None Expected
Persistence and Degradability: N/A
Bioaccumulation Potential: This material shows no bioaccumulation effect or food chain concentration toxicity.
Mobility in Soil: Minimal mobility in soil.
Other Adverse Effects: N/A

SECTION 13  DISPOSAL CONSIDERATIONS

Disposal Recommendations: Dispose of in accordance with all applicable federal, state, and local environmental regulations.
Regulatory Disposal Information: If this product as supplied, and unmixed, becomes a waste, it will not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act.
### SECTION 14  
**TRANSPORT INFORMATION**

- **UN Number:** Not Regulated
- **UN Proper Shipping Name:** Not Regulated
- **Transport Hazard Class(es):** Not Regulated
- **Packing Group:** Not Regulated
- **Marine Pollutant (y/n):** No
- **Special Precautions:** None

### SECTION 15  
**REGULATORY INFORMATION**

**National Chemical Inventory Listings:**
All chemical ingredients are listed on the USEPA TSCA Inventory List.

**US Regulations:**
- **RCRA Hazardous Waste Number:** not listed (40 CFR 261.33)
- **RCRA Hazardous Waste Classification (40 CFR 261):** not classified
- **CERCLA Hazardous Substance (40 CFR 302.4):** unlisted specific per RCRA, Sec. 3001;
  - CWA, Sec. 311 (b) (4); CWA, Sec. 307(a), CAA, Sec. 112
- **CERCLA Reportable Quantity (RQ):** not listed.
- **SARA 311/312 Codes:** not listed.
- **SARA Toxic Chemical (40 CFR 372.65):** not listed.
- **SARA EHS (Extremely Hazardous Substance) (40 CFR 355):** Not listed, Threshold Planning Quantity (TPQ): not listed

**Specific State Regulations:** Consult State and Local authorities for guidance. Components found in this product may contain trace amounts of inherent naturally occurring elements (such as, but not limited to arsenic and cadmium) that may be regulated under California Proposition 65 and other States regulations.

**Canada DSL:** Listed

**Canadian WHMIS Listing:**

- "D2A" Materials causing other toxic effects

### SECTION 16  
**OTHER INFORMATION**

**Prepared By:** Lhoist North America Technical Services

**Date Prepared:** May 1, 2015

**Revision:** 2015-1
Abbreviations:

N/A  Not Available or Not Applicable
IARC  International Agency for Research on Cancer
IATA  International Air Transport Association
ACGIH  American Conference of Governmental Industrial Hygienists
TWA  Time Weighted Average
PEL  Permissible Exposure Limit
TLV  Threshold Limit Value
REL  Recommended Exposure Limit

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