

# IDENTITY: Clay Ball, Hydrous Aluminum Silicate

## Section I – Manufacturer Information

Kentucky-Tennessee Clay Company  
PO Box 6002  
Mayfield, KY 42066

Telephone Number for Information:  
(502) 247-3061  
Date Prepared: April 1, 1992

**EMERGENCY NUMBER: (800) 424-9300 (Chemtrec)**

Trade name: Tennessee #5

## Section II – Hazard Ingredients/Identity Information

Free Silica (Quartz)\*                      Typically 10-30%                      CAS NUMBER 14808-60-7

\* Ball Clays reported on this Company's Material Safety Data Sheet, Form 9204b, contain crystalline silica, as quartz up to 30% dry weight depending on product type. Some of this silica is not fine enough to normally be considered respirable.

## Section III – Physical/Chemical Characteristics

Boiling Point:	Specific Gravity: 2.4-2.65
Vapor Pressure: Not applicable	Melting Point:
Vapor Density:	Evaporation Rate:

Solubility in Water: Negligible

Appearance and Odor: Light gray to brown/earthy odor when wet, raw.

## Section IV – Fire and Explosion Hazard Data

Flash Point (Method Used):	Flammable Limits:
LEL:	UEL:

Extinguishing Media:

Special Fire Fighting Procedures:

Unusual Fire and Explosion Hazards:

## Section V – Reactivity Data

Stable or Unstable? Clay is stable under ordinary conditions.

Conditions to Avoid: When exposed to high temperatures, free quartz can change crystal structure to form tridymite (above 870°C) or cristobalite (above 1470°C) which have greater health hazards than quartz.

Incompatibility (Materials to Avoid): None

Hazardous Decomposition or Byproducts:

Hazardous Polymerization May Occur or Will Not Occur? Will Not Occur

Conditions to Avoid:

## Section VI – Health Hazard Data

Routes of Entry

Inhalation: Yes

Skin:

Ingestion:

Eye: Yes

Carcinogenicity –

NTP:

IARC Monographs:

OSHA Regulated:

Health Hazards: WARNING: This clay product contains crystalline silica which may cause delayed respiratory disease (silicosis) if inhaled over a prolonged period of time. Avoid breathing dust. Use NIOSH/MSHA approved respirator where TLV for crystalline silica may be exceeded.

Signs and Symptoms of Exposure:

Medical Conditions Generally Aggravated by Exposure:

Emergency and First Aid Procedure:

Inhalation –

Ingestion –

Eyes – Flush thoroughly with water for 10 to 15 minutes. Contact a physician if irritation persists.

Skin –

## Section VII – Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled: Clean up and collect, minimizing dust. Avoid breathing dust. Wear an approved respirator. Avoid using water if possible, as product becomes slippery when wet.

Waste Disposal Method: Follow federal, state and local regulations.

Precautions to be Taken in Handling and Storing:

Other Precautions:

Community Right to Know: Ball Clay is regulated under EPCRA (SARA Title III). Reports should be made as required by this Act. California's Proposition 65 lists crystalline silica as a carcinogen.

### Section VIII – Control Measures

Respiratory Protection: If dust concentrations exceed recommended PEL or TLV for short time duration's, use NIOSH/MSHA approved dust respirators. If spraying wet coatings, use NIOSH/MSHA dust/mist respirators.

Ventilation

Local Exhaust:

Mechanical:

Special:

Other: General ventilation is recommended.

Protective Gloves:

Eye Protection: Wear tight fitting goggles if high dust concentrations exist.

Other Protective Clothing or Equipment:

Work/Hygiene Practices:

### Section IX – Additional Information

The information provided in this Material Safety Data Sheet represents data from the manufacturer and/or vendor and is accurate to the best of our knowledge. By providing this information, Delta Education LLC makes no guarantee or warranty, expressed or implied, concerning the safe use, storage, handling, precautions, and/or disposal of the products covered or the accuracy of the information contained in this fact sheet. It is the responsibility of the user to comply with local, state, and federal laws and regulations concerning the safe use, storage, handling, precautions, and/or disposal of products covered in this fact sheet.