



**SHEFFIELD
POTTERY, INC.**
Mining / Raw & Moist Clay / Supplies

RECEIVED-SCSD
ACCOUNTS PAYABLE

98MAY-4 PM 1:36

MSDS

10714-S N/G

EARTHENWARE CLAY

We do not have an MSDS on the clay itself. Enclosed herewith are the MSDS Sheets on the following Ingredients.

C&C BALL CLAY
REDART
SHEFFIELD SLIP CLAY

U.S. Route 7, P.O. Box 399 - Sheffield, Massachusetts 01257-0399
Phone No. 413-229-7700 or Toll Free 888-SPI-CLAY Fax: 413-229-0200

SPINKS CLAY COMPANY, INC.

P.O. BOX 820
 PARIS, TN 38242
 ph. (901) 642-5414 fax (901) 642-5493

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

PRODUCT: Ball Clay (CAS# 1332-58-7) EMERGENCY TELEPHONE NUMBER: (901) 642-5414
 TRADE NAME: Various*
 CHEMICAL NAME: Hydrous Aluminum Silicate
 CHEMICAL FAMILY: Kaolinite
 FORMULA: $Al_2O_3 \cdot 2SiO_2 \cdot 2H_2O$ + impurities DATE REVISED: June, 1996

* The information contained in this MSDS is applicable to all of Spinks' non-slurry ball clay product line

II. HAZARDOUS INGREDIENTS

COMPONENT	CAS#	PERCENT	ACGIH-TLV	OSHA-PEL
Crystalline Silica (Quartz)	14808-60-7	5-30%	0.1 mg/m ³ (respirable)	0.1 mg/m ³ (respirable)
Respirable Particulate (clay dust)			3.0 mg/m ³	5.0 mg/m ³

The exposure limits are based on a TWA for an eight (8) hour shift/ 40 hour week.

III. HEALTH HAZARD DATA

ROUTES OF ENTRY HEALTH EFFECTS

EYES: Contact may cause irritation and temporary discomfort.
 INHALATION: Symptoms of acute exposure include coughing, wheezing, difficult breathing, and upper respiratory track irritation. Prolonged and repeated exposure to concentrations in excess of the TLV or PEL may contribute to delayed respiratory complications.
 INGESTION: No information available.
 SKIN: None expected, but constant contact may cause irritation.

CARCINOGENICITY INFORMATION:

OSHA REGULATED: No NTP LISTED: Yes IARC LISTED: Yes

WARNING! This product contains crystalline silica. IARC Monograph Volume 42, 1987 concludes that "there is limited evidence for the carcinogenicity of crystalline silica to humans". IARC classification - Group 2A.

The National Toxicology Program (NTP), in the Seventh Annual Report on Carcinogens, 1994, has included crystalline silica in 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 outlined in 29 CFR 1910.103.

IV. FIRST AID AND EMERGENCY PROCEDURES

INHALATION: Move away from exposure into fresh air conditions.
 EYE CONTACT: Flush with water immediately. Consult a physician if irritation persists.
 IF SWALLOWED: Consult a physician.
 SKIN CONTACT: Wash with mild soap and water.

V. PHYSICAL AND CHEMICAL CHARACTERISTICS

APPEARANCE:	A solid of various shades of white, gray and black		
ODOR:	Earthy odor		
BOILING POINT:	NA	VAPOR PRESSURE:	NA
MELTING POINT:	NA	VAPOR DENSITY:	NA
SPECIFIC GRAVITY:	2.56	EVAPORATION RATE:	NA
SOLUBILITY IN WATER:	Insoluble	PERCENT VOLATILITY:	NA
PH:	NA	VISCOSITY:	NA

VI. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: Non-Flammable	SPECIAL FIREFIGHTING PROCEDURES: None
EXTINGUISHING MEDIA: NA	UNUSUAL FIRE AND EXPLOSION HAZARDS: None
FLAMMABLE LIMITS: NA	

VII. REACTIVITY DATA

STABILITY:	Stable	INCOMPATIBILITIES:	None
HAZARDOUS DECOMPOSITION:	None	CONDITIONS TO AVOID:	None
HAZARDOUS POLYMERIZATION:	Will not occur		

VIII. SPILL, LEAK AND DISPOSAL INFORMATION

SPILL AND LEAK RESPONSE: Minimize dust generation during cleanup. Vacuum or scoop the material into a container for reclamation or disposal.

WASTE DISPOSAL: Raw (unused) material, as shipped, may be disposed of in a sanitary landfill; However spent material may be contaminated and may require special disposal methods. Consult the proper regulatory authorities.

Ball clay is not listed as a hazardous waste as defined by 40 CFR, Part 261.

IX. SPECIAL HANDLING AND PERSONAL PROTECTION INFORMATION

Avoid unnecessary product agitation to keep dust level to a minimum.
 Local exhaust ventilation is recommended for dust generating processes.
 Use NIOSH or MSHA approved respirators if dust concentrations exceed the TLV or PEL.
 Eye wash stations are recommended in areas where this product is used.
 Floors or surfaces covered with this product become extremely slippery when wet.

X. SPECIAL REGULATORY INFORMATION

Ball Clay is subject to the reporting requirements of EPCRA (SARA Title III), as outlined in 40 CFR, Part 370.
 Ball Clay is included on the TSCA inventory as a naturally occurring chemical substance, 40 CFR, Part 710.4(b).
 Ball Clay is not regulated by the DOT.

To the best of our knowledge the information contained herein is accurate. However there is no warranty of any kind expressed or implied, as to the completeness or accuracy thereof. Final determination of the suitability of this information for a particular use of this product is the sole responsibility of the user.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA - 0

FLASH POINT (Method Used): N/A
FLAMMABLE LIMITS: N/A
Lel: N/A Uel: N/A
EXTINGUISHING MEDIA: Not flammable. May actually be used as an extinguisher.
SPECIAL FIRE FIGHTING PROCEDURES: None
UNUSUAL FIRE AND EXPLOSION HAZARDS: None

SECTION V - HEALTH HAZARD DATA - 2

PERMISSIBLE EXPOSURE LIMIT: As for the product ingredients listed under, "HAZARDOUS MIXTURES, LIQUIDS, SOLIDS, OR GASES" in Section II of this form.
THRESHOLD LIMIT VALUE: As for the product ingredients listed under, "HAZARDOUS MIXTURES, LIQUIDS, SOLIDS, OR GASES" in Section II of this form.
EFFECTS OF OVEREXPOSURE: Dust irritates eyes and respiratory tract.
EMERGENCY AND FIRST AID PROCEDURES: Wash skin thoroughly with water. Flush eyes for 15 minutes with gently running water. In case of inhalation, move to fresh air.
PRIMARY ROUTE(S) OF ENTRY INTO THE BODY: Skin contact, eyes, inhalation of fine fraction.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Any debilitating condition of the lungs, eyes, or other mucous membranes.
WARNING: IARC MONOGRAPH, VOLUME 42, "EVALUATION OF THE CARCINOGENIC RISK OF CHEMICALS TO HUMANS, SILICA AND SOME SILICATES" PUBLISHED IN 1987 LISTS SILICA AS A CLASS 2A CARCINOGEN. THIS MEANS THAT IN THEIR OPINION THERE IS SUFFICIENT EVIDENCE FOR THE CARCINOGENICITY OF CRYSTALLINE SILICA TO EXPERIMENTAL ANIMALS AND LIMITED EVIDENCE FOR THE CARCINOGENICITY OF CRYSTALLINE SILICA TO HUMANS.

SECTION VI - REACTIVITY DATA - 0

STABILITY: Stable
INCOMPATIBILITY (MATERIALS TO AVOID): None known.
HAZARDOUS DECOMPOSITION PRODUCTS: May release carbon monoxide and sulfur dioxide when heated above 260°C.
CONDITIONS TO AVOID: Hazardous polymerization won't occur.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Ordinary cleaning procedures taking care to avoid raising dust clouds. Avoid breathing dust.

WASTE DISPOSAL METHOD: Bury in approved landfill.

SECTION VIII - SPECIAL PROTECTION INFORMATION - E

RESPIRATORY PROTECTION (SPECIFY TYPE): NIOSH approved dust respirator if working in dusty conditions (above TLV).

LOCAL EXHAUST: Ventilation to keep dust/fume level below TLV.

EYE PROTECTION: Safety glasses.

OTHER PROTECTIVE EQUIPMENT: None

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS: Avoid breathing dust.

THE INFORMATION CONTAINED HEREIN IS BELIEVED TO BE ACCURATE AND IS GIVEN IN GOOD FAITH, HOWEVER NO WARRANTY CAN BE MADE.

OCT 20, 1993

MATERIALS SAFETY DATA SHEET

To comply with OSHA'S Hazard Communication Standard, 29 CFR 1910.1200

SECTION I. IDENTITY OF PRODUCT AND IMPORTER OR PRODUCER

Trade Name: Sheffield Slip Clay As Marked on Bag: Sheffield Slip Clay

Chemical Name: Hydrous Alumina silicate
CAS Number: 1332-58-7

Importer/Producer Name and Address:

Telephone No.:

Sheffield Pottery, Inc.
US RTE. 7 Box 399
Sheffield MA. 01257

For Information
413/229/7700

Date prepared: 10/20/88

SECTION II. HAZARDOUS INGREDIENTS

Total Quartz (SiO_2) is not more than 30% by dry weight, and it is not fine enough to be normally respirable.

See Section VI.

SECTION III. PHYSICAL DATA

Fusion Range: 1180°C - 1200°C
Solubility in H_2O : Slightly Soluble
Vapor Pressure: Not Applicable
Odor and Appearance: Earthy Odor, Green Powder

Specific Gravity: 2.7
% volatiles : < 100°C. NONE

SECTION IV. FIRE AND EXPLOSION HAZARD DATA

Non-Flammable and Non-Hazardous

SECTION V. REACTIVITY DATA

Stability: Stable

Incompatibility (Materials to Avoid): NONE
Hazardous Polymerization: Will NOT Occur

Data, information and recommendations recorded herein are accurate to the best of our knowledge. Sheffield Pottery, Inc. makes no warranty, either expressed or implied, with respect thereto and disclaims all liability from reliance thereon.

SECTION VI. HEALTH HAZARD DATA

OSHA Permissible Exposure Limit (PEL): Total Dust mg/m³: 0.90
Respirable Dust* mg/m³: 0.58

TLV-TWA: 0.3 mg/m³ Respirable Dust, based on free silica content

Route of Entry: Inhalation * Based on free silica content

Effects of overexposure:

Short Term - no effect other than as a nuisance dust
Long Term - Long term exposure to dust and free silica in concentrations higher than recommended PEL may cause silicosis.

First Aid: Eyes - Flush thoroughly with water. See a physician if irritation persists.

SECTION VII. SPILL, LEAK AND DISPOSAL INFORMATION

Action to be taken in case material is released or spilled: Clean up and collect, minimizing excessive dust*

Waste disposal method: Any approved solid waste disposal including burial.*

*Do not exceed recommended PEL - see section VI.

SECTION VIII. SPECIAL PROTECTION INFORMATION

Respiratory Protection: If dust concentrations exceed recommended Permissible Exposure Limits, use NIOSH approved dust respirators. If spraying coatings use NIOSH approved dust/mist respirators.

Ventilation: Local exhaust or other ventilation that will reduce dust concentrations to less than Permissible Exposure Limits is recommended. Use adequate ventilation if spraying coatings.

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

Other Protective Equipment: Not required.

SECTION IX. SPECIAL PRECAUTIONS

Minimize dust generation and exposure. Do not breath dust.