

**Fire Clay**  
**Material Safety Data Sheet**

**Section 1.****Production Identification**

Manufacturer : The Kopp Clay Company  
Address : 3266 Coral Road  
P.O. Box 488  
Malvern, Ohio 44644  
Telephone : (330) 863-0111  
Fax : (330) 863-2265

Product Type : Fire Clay  
Product Name, Sales Name or Trade Name : Fire Clay

**Section 2****Hazardous Ingredients**

Chemical Name	Common Name	CAS Number	Percent	OSHA PEL	ACGIH TLV	Carcinogen*
Al <sub>2</sub> O <sub>3</sub>	Alumina	1344-28-1	30.0%	N/A	10 Mg/m <sup>3</sup>	No
SiO <sub>2</sub>	Cristobalite	14464-46-1	8.0%	.01 Mg/m <sup>3</sup>	.01 Mg/m <sup>3</sup>	Yes
SiO <sub>2</sub>	Quartz	14808-60-7	1.0%	.01 Mg/m <sup>3</sup>	.01 Mg/m <sup>3</sup>	Yes

\*Per NTP and IARC lists and the State of California

**Section 3****Physical Data**

Appearance:	Dull White to Grey – Powdery to Coarse Granules	Odor:	None
Specific Gravity:	1.8 – 2.6	Melting Point:	1500 C
Boiling Point:	N/A	Vapor Pressure:	NI
Evaporation Rate:	N/A	Solubility in H <sub>2</sub> O:	N/A
Solubility in Alcohol	N/A	Other Solvents:	NI
Percent Volatile by Vol:	N/A	Vapor Density:	NI

**Section 4****Fire and Explosion Hazard Data**

Flash Point (Method Used):	None
Flammable Limits:	LEL None UEL None
Extinguishing Media:	N/A
Special Fire Fighting Procedures:	Non-Flammable
Unusual Fire and Explosion Hazards:	Non-Flammable, Non-Explosive

**Section 5****Health Hazard Data**

<b><u>Primary Routes of Entry</u></b>	<b><u>Exposure Symptoms</u></b>	<b><u>Emergency Procedures</u></b>
Inhalation:	Respiratory Irritation	Remove to Fresh Air
Ingestion:	NE	NE
Skin Contact and Absorption:	N/A	N/A
Eyes:	Irritation	Flush with Water

Other Potential Health Risks: Dust may aggravate pre-existing conditions and lung diseases. Inhalation of crystalline quartz may cause Silicosis which may progress to cancer and may lead to death. Dust from handling dry fireclay may contain crystalline silica which is a chemical known to the State of California to cause cancer. Silica is listed in IARC Monograph 68 as a known human carcinogen. Inhalation may cause cancer which could lead to death.

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**Section 6**

**Potential Exposure**

**When**

Installation:  
Removal:

**Hazard Form**

Dust from handling dry clay  
Dust from tearing-out after service

**Section 7**

**Corrosivity and Reactivity Data**

Stability (stable or unstable):	Stable
Incompatability (Materials to avoid):	None
Decomposition Products:	N/A
Conditions to be Avoided	NE

**Section 8**

**Disposal Procedures**

Spill or Leak Procedures:	Use dustless vacuum or sweep up using dust suppressant
Waste Disposal Method:	Approved landfill in accordance with all Federal, State and Local regulations.

**Section 9**

**Personal Protective Equipment/Procedures**

Respiratory Protection:	Yes	Type:	NIOSH or MSHA Approved dust Respirator
Ventilation:	Local:		
	Mechanical (General):		
	Other:		
Protective Gloves:	Yes		
Eye Protection:	Yes		
Other Equipment:	Safety Shoes		

Action to be taken during repair and maintenance of equipment that has been in contact with the product: None

**Section 10**

**Special Precautions**

During Storage:	None
Other:	A) Work using fireclay must be completely dry before introduction of molten metal to avoid explosion from steam. B) See ASTM E1132-86. "Standard Practice for Health Requirements Relating to Occupational Exposure to Quartz Dust." C) Avoid creating and breathing dust.

**Section 11**

**Preparation/Revision**

Date: 2/8/93 Revised 5/1/98

N/A = Not Applicable  
NI = No Information or Test Data  
NE = Not Established