Fire Clay Material Safety Data Sheet

available. CAS

4/1/2024: - File reviewed, more current MSDS/SDS not

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	Common	CAS		OSHA		
Name	Name	Number	Percent	PEL	ACGIH TLV	Carcinogen*
Al_2O_3	Alumina	1344-28-1	30.0%	N/A	10 Mg/m^3	No
SiO_2	Cristobalite	14464-46-1	8.0%	$.01 \text{ Mg/m}^3$	$.01 \text{ Mg/m}^3$	Yes
SiO_2	Quartz	14808-60-7	1.0%	$.01 \text{ Mg/m}^3$	$.01 \text{ Mg/m}^3$	Yes

^{*}Per NTP and IARC lists and the State of California

Section 3 Physical Data

Appearance: Dull White to Grey – Powdery to Odor: None

Coarse Granules

Specific Gravity: 1.8 - 2.6Melting Point: 1500 C **Boiling Point:** Vapor Pressure: N/A NI **Evaporation Rate:** N/ASolubility in H₂O: 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

Primary Routes of EntryExposure SymptomsEmergency ProceduresInhalation:Respiratory IrritationRemove to Fresh Air

Ingestion: NE NE Skin Contact and Absorption: N/A 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 Hazard Form

Installation: Dust from handling dry clay
Removal: Dust from tearing-out after service

Section 7 Corrosivity and Reactivity Data

Stability (stable or unstable):

Incompatability (Materials to avoid):

Decomposition Products:

Conditions to be Avoided

National Network

None

NE

Section 8 <u>Disposal Procedures</u>

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