

# MATERIAL SAFETY DATA SHEET

Original: February 4, 2000

Product Name: Kiln Wash

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## 1. CHEMICAL PRODUCT and COMPANY IDENTIFICATION

Trade Name: Kiln Wash

Chemical Formula:  $Al_2O_3 \cdot 3H_2O \cdot H_4Al_2Si_2O_7 \cdot SiO_2$

Chemical Names: Aluminum Trihydroxide/Kaolin/Trade Secret

Synonyms: Alumina Hydrate, Alumina Hydrated, Alumina Tridrate, Aluminum Hydrate, Aluminum Oxide Hydrate(containing non-fibrous aluminas), Aluminum Oxide Trihydrate, Aluminum Trihydrate, Hydrated Alumina.

Kaolinite, Kaolin Clay, Hydrous Aluminum Silicate.

Silica, Quartz, Silicon Dioxide.

## 2. HAZARDOUS INGREDIENTS

<u>COMPONENT</u>	<u>CAS No.</u>	Typical % <u>by Weight</u>	EXPOSURE LIMITS (TWA inmg/m3 unless noted)	
			<u>ACGIH TLV</u>	<u>OSHA PEL</u>
*Aluminum Trihydroxide 10(respirable) (non-fibrous)	21645-51-2	>50	10 (total)	15(total dust),
Kaolin	1332-58-7	>20	3.95 (total)	1.52 (respirable)

Silica	14808-60-7	>10	3.95 (total)	1.52 (respirable)
+Trade Secret	N/A	<10	N/A	N/A

\* See Section 9  
+ Not an OSHA Hazardous Substance per 29 CFR 1910.1200

### 3. PHYSICAL and CHEMICAL DATA

APPEARANCE & ODOR: Lt. Red Powder, Odorless	SPECIFIC GRAVITY: 2.56
BOILING POINT(F): N/A	PERCENT VOLATILE: NIL
SOLUBILITY IN WATER: Moderate	MELTING POINT: 1740 - 1785 C
VAPOR PRESSURE: N/A	EVAPORATION RATE: N/A
VAPOR DENSITY: N/A	

### 4. FIRE, REACTIVITY and EXPLOSION DATA

FLAMMABLE PROPERTIES: Nonflammable & Nonexplosive  
AUTO-IGNITION TEMPERATURE: None  
HAZARDOUS COMBUSTION PRODUCTS: None  
PRODUCTS OF DECOMPOSITION: (>392 F) Alumin & water  
EXTINGUISHING MEDIA: Use extinguishing agent applicable to surrounding fire and appropriate for materials fueling the fire.  
FIRE FIGHTING INSTRUCTIONS: Firefighters should wear NIOSH approved, positive pressure, self-contained breathing apparatus and full protective clothing when appropriate.

### 5. HEALTH HAZARD DATA - HAZARD BY ROUTES OF EXPOSURE

INHALATION: Repeated, prolonged inhalation of dust may cause respiratory tract irritation of delayed lung injury (silicosis).  
INGESTION: May cause mild irritation and gastrointestinal discomfort.  
EYE: Direct contact with eyes can cause irritation, especially when wet.  
SKIN CONTACT/ABSORPTION: Direct contact with skin may cause irritation.  
SIGNS & SYMPTOMS ASSOCIATED WITH EXPOSURE OVER TLV:  
Short Term: None.  
Long Term: May cause silicosis, a chronic disease of the lungs marked by acute fibrosis.  
MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED: Asthma, chronic lung disease and skin rashes.  
ANY OF PART 1 LISTED AS CARCINOGENS? (NTP,IARC,OSHA): None.

## 6. HEALTH HAZARD DATA - EMERGENCY/FIRST AID PROCEDURES

INHALATION: Move to fresh air, consult physician as necessary.

INGESTION: If swallowed, dilute by drinking large amounts of water (never give anything by mouth to a convulsing or unconscious person.). DO NOT INDUCE VOMITING. Consult a physician.

EYES: Flush with water for at least 15 minutes, consult physician as necessary.

SKIN: Wash with soap and water for at least 15 minutes.

## 7. PRECAUTIONS, SPILLS and DISPOSAL

SMALL/LARGE SPILL: Clean up using dry procedures; avoid dusting.

HANDLING: Avoid dusting and contact with eyes and skin. Avoid inhaling dust.

STORAGE: Keep Material Dry.

DISPOSAL: Collect in containers, bags, or covered dumpster boxes, material may be disposed of at an industrial secure landfill.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION: Use NIOSH-approved respiratory protection if potential for over exposure exists.

VENTILATION: Have adequate ventilation.

EYE PROTECTION: Safety glasses recommended to avoid direct eye contact.

SKIN PROTECTION: Wear appropriate gloves to avoid direct skin contact.

## 9. TRANSPORTATION INFORMATION

U.S.A. DOT: Not Regulated.

CANADIAN TDG HAZARD CLASS & PIN: Not regulated.

## 10. REGULATORY INFORMATION

For TSCA inventory reporting purposes, CAS No. 1344-28-1 was assigned for all forms of aluminum oxide

instead of CAS No.21645-51-2 as indicated in Section 2.

U.S. FEDERAL REGULATIONS:

TSCA STATUS: All components for the hydrated aluminas listed on TSCA inventory.

CERCLA HAZARDOUS SUBSTANCES: None

SARA TITLE III:

Section 302 Extremely Hazardous Substances: None

Section 311/312 Hazardous Categories: None

Section 313 Toxic Chemicals: None

In reference to Title VI of the Clean Air Act of 1990, this material does not contain nor was it manufactured using ozone-depleting chemicals.

## 11. OTHER INFORMATION

MSDS CREATED: February 4, 2000

PREPARED BY: Special Plasters

Information herein is given in good faith as authoritative and valid; however, no warranty, express or implied, can be made.