

Material Safety Data Sheet

This document has been prepared to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200

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Boral
Material
Technologies



Classification: Calcium Aluminum Silicate

IDENTITY: (As used on label and list)
Boral Class F Fly Ash

Emergency Telephone Number:
1 (800) 424-9300 (CHEMTREC)

SECTION I – Identity Information

Chemical Name: Fly Ash
Telephone Number for Information: (210) 349-4069

Chemical Family: Coal Ash
Date Prepared: 15-Feb-93

CAS #: 68131-74-8
Date Revised: 21-September-07

SECTION II – Product Composition & Information on Ingredients

Ingredients	CAS#	% Weight	Exposure Limits	
			OSHA PEL mg/m ³	ACGIH TLV mg/m ³
Calcium Aluminate Silicates	Various	>80%	15	10
Crystalline Silica	14808-60-7	Varies	[10/(%SiO ₂ +2)] (R) [30/(%SiO ₂ +2)] (T)	0.025
Iron Compounds	Various	Varies	Not Available	Not Available

The above chemistries are provided for industrial hygiene and environmental purposes and are not intended to represent product specifications. Composition is variable depending on coal source and power plant characteristics. This data has been compiled from data believed to be reliable. Elements such as aluminum, arsenic, boron, calcium, chromium, cobalt, copper, gold, lead, molybdenum, nickel, silver, tin, titanium, vanadium, and zirconium may be present in trace amounts.

SECTION III – Physical/Chemical Characteristics

Boiling Point (°F) Not Applicable	Specific Gravity (H₂O=1) Not Applicable	NFPA Health 1 NFPA Flammability 0 NFPA Reactivity 0 NFPA Special:
Vapor Pressure (mm Hg.) Not Applicable	Percent Volatile by Mass (%) Not Applicable	
Vapor Density (AIR=1) Not Applicable	Evaporation Rate (Butyl Acetate=1) Not Applicable	
Solubility in Water Not Applicable	pH 4-12 (1%w/w)	

Appearance and Odor
Grayish powder, odorless

SECTION IV – Fire and Explosion Hazard Data

Flash Point Not Applicable	LEL Not Applicable	UEL Not Applicable
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Extinguishing Media
Not Applicable

Special Fire Fighting Procedures
Not Applicable

Unusual Fire and Explosion Hazards
Not Applicable

SECTION V – Reactivity Data

Materials as shipped are not reactive

SECTION VI – Health Hazard Data

ACUTE EFFECTS OF OVEREXPOSURE:

Eye: May cause irritation by abrasion with dust.

Skin: Dust may cause irritation in hypersensitive individuals.

Inhalation: Dust may cause congestion and irritation in nasal and respiratory passages.

Ingestion: No known acute effects.

CHRONIC EFFECTS OF OVEREXPOSURE:

Excessive exposures to respirable particulate (dust) over an extended period of time may result in the development of pulmonary diseases such as silicosis

CARCINOGENICITY:

The following carcinogenicity classifications for crystalline silica have been established by the following agencies:

OSHA: Not regulated as a carcinogen

IARC: Group 1 carcinogenic in humans

NIOSH: Carcinogen, with no further categorization

NTP: Known Carcinogen

Material may contain crystalline silica, a chemical that has been determined by the agencies listed above to cause cancer and other chemicals known to cause cancer, birth defects and other reproductive harm. Inhalation of dust above established or recommended exposure levels should be avoided by use of proper ventilation and/or use of NIOSH approved respirator

SECTION V II – Precautions for Safe Handling

VENTILATION: Provide adequate ventilation to maintain exposures below the OSHA PEL and ACGIH TLV for crystalline silica and other substances.

RESPIRATORY PROTECTION: None required under PEL. IF PEL is exceeded, use a NIOSH approved half or full-face air purifying respirator with high efficiency particulate air filters.

PROTECTIVE GLOVES: Work gloves as needed

EYE PROTECTION: Recommend Safety goggles or safety glasses. Eye wash stations should be readily accessible.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: As Needed

Steps to be taken in case Material is Released or Spilled:

Clean up for use or disposal. Dampen with water mist to control dust (airborne dust) before removal. Do not use compressed air. If loaded on trucks, wet down material to prevent dusting during transport. Observe local, state, and federal regulations pertinent to reporting requirements.

Waste Disposal Method:

Dispose of in landfill or coal ash disposal pond. Observe local, state and federal regulations. This material is not RCRA hazardous waste.

Precautions to Be Taken in Handling and Storing:

Store in dry conditions. Minimize dust. Avoid creating dust.

SECTION VIII – First Aid and Medical

Skin: Wash with soap and water. If an allergic reaction causes a rash that does not heal within a few days, consult a physician.

Eyes: Flush with running water. Obtain medical assistance if irritation continues.

Ingestion: Do not induce vomiting. See a physician.

Inhalation: Remove from exposure to airborne particulates.

Medical Conditions Aggravated by Exposure:

Excessive dust exposure may aggravate any existing respiratory disorders or diseases. Possible complications or allergies resulting in irritation to skin, eyes, and respiratory tract may occur from excessive exposure to dusts.

Section IX – Other Regulations

RCRA:

This material is not an RCRA hazardous waste.

EPCRA Section 311/312:

Material as shipped is subject to Section 311/312 reporting.

EPCRA Section 313:

Material as shipped is not subject to Section 313, Toxic Chemical Release Inventory reporting requirements.

DOT:

Material as shipped is not a hazardous material as per DOT regulations.

UN/NA Code:

None

Placard Required:

None

Labeling Requirement:

None

The information and recommendations set forth herein are based on data we have in our possession and we have reason to believe is accurate. It is, however, the user's responsibility to determine the safety, toxicity, and suitability for his/her own use of the herein described product. Because the actions by others is beyond our control, Boral Material Technologies Inc. makes no warranty expressed or implied regarding accuracy of the data or the results to be obtained from the use thereof.