

**Material Safety Data Sheet**

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

**U.S. Department of Labor**

Occupational Safety and Health Administration  
(Non-Mandatory Form)  
Form Approved  
OMB No. 1218-0072



**IDENTITY (As Used on Label and List)**  
Coal Fly Ash - Class F, Class C

*Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.*

**Section I**

<b>Manufacturer's Name</b> American Fly Ash Company	<b>Emergency Telephone Number</b> 708-505-3060
<b>Address (Number, Street, City, State, and ZIP Code)</b> 1250 E. Diehl Rd. Suite 101 Naperville, IL 60563	<b>Telephone Number for Information</b> 708-505-3060
	<b>Date Prepared</b> January 3, 1995
	<b>Signature of Preparer (optional)</b>

**Section II - Hazardous Ingredients/Identity Information**

Hazardous Components (Specific Chemical Identity, Common Name(s))	OSHA PEL (mg/M <sup>3</sup> )	ACGIH TLV (mg/M <sup>3</sup> )	Other Limits Recommended	% (optional)
<b>Silica (SiO<sub>2</sub>)</b>				25-65
A. Quartz	0.1	0.1		
B. Cristobalite	0.05	0.05		
C. Tridymite	0.05	0.05		
D. Amorphous	6.0	10		
Aluminum Oxide (Al <sub>2</sub> O <sub>3</sub> )	15	10		5-35
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> )	10	5		3-30
Calcium Oxide (CaO)	5	2		1-30
Magnesium Oxide (MgO)	10	10		1-10
Titanium Oxide (TiO <sub>2</sub> )	10	10		0-2

Fly ash consists principally of minute, separate glass spheres (Amorphous Silicates) along with some crystalline matter and varying amounts of unburned carbon.

**Section III - Physical/Chemical Characteristics**

<b>Boiling Point</b>	N/A	<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	2.2 - 2.9
<b>Vapor Pressure (mm Hg.)</b>	N/A	<b>Melting Point</b>	N/A
<b>Vapor Density (AIR = 1)</b>	N/A	<b>Evaporation Rate (Butyl Acetate = 1)</b>	N/A
<b>Solubility in Water</b>	Approx. 5% or less		N/A

**Appearance and Odor**  
Slightly hygroscopic light gray to buff colored powder.

**Section IV - Fire and Explosion Hazard Data**

<b>Flash Point (Method Used)</b> N/A (closed cup) N/A (open cup)	<b>Flammable Limits</b> N/A	<b>LEL</b> N/A	<b>UEL</b> N/A
<b>Extinguishing Media</b> N/A			

**Special Fire Fighting Procedures**  
N/A - Hazardous Polymerization will not occur.

**Unusual Fire and Explosion Hazards**  
N/A

**Section V -- Reactivity Data**

Stability	Unstable		Conditions to Avoid
	Stable	X	

Incompatibility (Materials to Avoid) Powerful oxidizers: Fluorine, Chloride Trifluoride, etc.

Hazardous Decomposition or Byproducts N/A

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	

**Section VI -- Health Hazard Data**

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	Yes	Yes (contact)	Yes

Health Hazards (Acute and Chronic) Particles may irritate eyes, skin and mucous membranes of the Respiratory tract.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
<u>N/A</u>			

Signs and Symptoms of Exposure Coughing, Sore Throat, Irritated eyes.

Medical Conditions Generally Aggravated by Exposure

Repeated over-exposure may result in respiratory tract irritation.

Emergency and First Aid Procedures	
Eye Contact - flush thoroughly with water	Skin Contact - wash with soap & water
Inhalation - remove to fresh air	Oral Intake - rinse mouth with water

**Section VII -- Precautions for Safe Handling and Use**

Steps to Be Taken in Case Material is Released or Spilled  
Collect and dispose of spilled material using normal care to avoid excessive nuisance dust.

Waste Disposal Method  
Dispose of waste materials as an inert solid in a landfill following all applicable federal, state, and local regulations.

Precautions to Be Taken in Handling and Storing  
Store fly ash in dry containers in dry area; handle fly ash as you would any finely divided material.

Other Precautions

**Section VIII -- Control Measures**

Respiratory Protection (Specify Type)  
Protective dust filter mask, such as 3M's "non-toxic particle mask #8500" or equivalent.

Ventilation	Local Exhaust	Local ventilation of dust source where possible.	Special
	Mechanical (General)	Exhaust system capable of maintaining levels at or below exposure limits.	Other

Protective Gloves No-Unless sensitive skin is a problem Eye Protection Wear goggles in high dust area.

DISCLAIMER: Safety and health information provided is believed to be accurate. It is offered as a convenience only for use in recipient's own independent verification and/or investigation and not reliance thereon, otherwise. American Fly Ash Co. DISCLAIMS any express and all implied warranties, including accuracy, adequacy, and suitability of the information. It is intended for persons of appropriate knowledge.