

Issued: September 9, 1998
Revised:

MATERIAL SAFETY DATA SHEET

AES Shady Point
3 miles east of Junction 31
Panama, Oklahoma 74951

Emergency Phone
(918) 962-6043
(918) 962-6044

SECTION I PRODUCT INFORMATION

Product: Fly Ash

Trade Name: Fly Ash

DOT Shipping Name: N/A

ID Number: N/A

Chemical Description: Fly Ash

Hazard Rating (HEMS): Health — 0, Fire — 0, Reactivity — 0

SECTION II HAZARDOUS INGREDIENTS

Hazardous Components: Calcium — 25.7%
Iron— 4.1%
Silica — 5.3%
Aluminum — 1.3%
Magnesium- 1.1%

Exposure Limits: Calcium
Calcium Oxide
PEL - 5mg/m³
TLV 2mg/m³

Exposure Limits (cont):

Iron

PEL — N/A

TLV — N/A

Silica

PEL — 0.1mg/m³ (Respirable Fraction)

TLV — 0.1mg/m³ (Respirable Fraction)

Aluminum

PEL — Total Dust 15mg/m³

Respirable Fraction 5 mg/m³

TLV — 10 mg/m³

Magnesium

PEL — N/A

TLV — N/A

CAS Number: Calcium 7440-70-2

Iron

Silica 14808-60-7

Aluminum 6428-89-57

Magnesium 7439-95-4

SECTION III PHYSICAL DATA

Boiling Point: N/A Vapor Pressure: N/A Vapor Density: N/A

Specific Gravity: 0.88 (Bulk Density) Solubility (water): 8.1-18%

Appearance and Odor: Light gray to buff solid

pH: 11.6

Percent Volatile: N/A

Evaporation Rate (Butyl Acetate): N/A

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point: >200F

Flammability Limits: Lower: None
Upper: None

Extinguishing Media: N/A

Special Fire Fighting Instructions: N/A

Unusual Fire and Explosion Hazards: None

SECTION V HEALTH HAZARD DATA

Primary Routes of Overexposure: Inhalation

Signs and Symptoms of Overexposure: Due to high pH, may cause eye, skin, or respiratory tract irritation.

Chronic Effects of Overexposure: Repeated or prolonged exposure to respirable crystalline quartz may cause a delayed chronic lung injury (silicosis) and cancer.

Carcinogenicity: There is "limited evidence" of the carcinogenicity of crystalline silica to humans. IARC classification 2A.

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SECTION VI EMERGENCY AND FIRST AID

Get medical attention in all cases of overexposure.

Eyes: Flush immediately and thoroughly with flooding amounts of running water. Seek medical attention.

Skin: Wash effected area. If redness or irritation develops, seek medical attention.

Inhalation: Remove to fresh air and provide oxygen or artificial respiration if necessary; seek medical attention.

Ingestion: Fly ash is not toxic, if discomfort develops, seek medical attention.

SECTION VII REACTIVITY DATA

Stability: Stable

Conditions to Avoid: N/A

Incompatibility (Materials to Avoid): None known

Hazardous Decomposition Products: None

Hazardous Polymerization: Will not occur.

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SECTION VIII SPILL OR LEAK PROCEDURES

Material Release or Spill Procedures: Use wet methods or vacuuming to clean up spills. Avoid stepping in fly ash to avoid creating airborne dust.

Disposal Methods: Material may be disposed of as an inert solid in appropriate solid waste landfill. Consult applicable federal, state and local regulations.

SECTION IX PERSONAL PROTECTION

Ventilation: Use ventilation as required to control airborne dust levels.

Respiratory Protection: Wear NIOSH approved dust respirator if TLV/PEL is exceeded.

Eye Protection: Safety glasses with side shields. To avoid irritation, use goggles or similar eyewear.

Protective Clothing: Barrier creams, gloves, boots and clothing to protect the skin from wet fly ash is recommended. After working with materials containing fly ash, workers should shower with soap and water. Alkali burns may result from skin contact.

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SECTION X SPECIAL PRECAUTIONS

Fly ash may be hot. Avoid prolonged skin contact. Handle fly ash in a way to avoid creating airborne dust.

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Prepared by: Thomas L. Roberts, CM CSP Date
Issued: September 9, 1998

AES/SP Fly Ash MSDS CONTROL
ID: _____
USED FROM: 199
TO: _____
_AES; _WT; _PB; _WH; _CO2; YMH