

Material Safety Data Sheet

Environmental Materials, Inc.

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

P.O. Box 22745
 Billings, Montana 59104
 Phone: 406/245-8833
 Fax: 406/245-3232

Classification: **Fluidized bed combustor ash**

Identity (as used on label and list)

Billings Genration Inc, power plant - Billings, MT. SynGyp

EnviroDry

Section I - Identity Information

Chemical Name

Calcium sulfate and calcium oxide

Emergency Telephone Number

406/794-7379 Jason Vollmer

Chemical Family

Combustion ash

Telephone Number for Information

406/245-8833

Date Prepared

5-Jun-07

Date Revised

5-Jun-07

Section II - Hazardous Ingredients

Ingredients	CAS#	% Weight	Exposure Limits	
			OSHA PEL mg/m3	ACGIH TLV mg/m3
Calcium Sulfate		Varies (~40 to ~60%)		
Calcium Oxide		Varies (~30 to ~50%)		
Quartz (Respirable)	14808-60-7	Varies (<10%)	10/(%SiO2+2)	0.05
Calcium Carbonate				

The above chemistries are provided for industrial and environmental purposes and are not intended to represent product specifications. Composition is variable depending on petroleum coke and limestone sources as well as 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 (deg F)	Specific Gravity (H2O=1)	NFPA Health	1
Not applicable	Not applicable		
Vapor Pressure (mm Hg.)	Percetn Volatile by Mass (%)	NFPA Flammability	0
Not applicable	Not applicable		
Vapor Density	Evaporation Rate (Butyl Acetate=1)	NFPA Reactivity	0
Not applicable	Not applicable		
Solubility in Water	pH	NFPA Special:	NA
Not applicable			

Appearance and Odor

Grayish powder, odorless

Section IV - Fire and Explosion Hazard Data

Flash Point	LEL	UEL
Not applicable	Not applicable	Not applicable

Extinguishing Media

Not applicable

Special Fire Fighting Procedures

Not applicable

Unusual Fire and Explosion Hazards

Not applicable

Section V - Reactivity Data

Material as shipped is not reactive

Section VI - Health Hazard Data

ACUTE EFFECTS OF OVEREXPOSURE:

Eye:

Skin:

Inhalation:

Ingestion:

CHRONIC EFFECTS FO OVEREXPOSURE:

Excessive exposure to respirable particulate (dust) over an extended period of time may result in the development of pulmonary diseases such as s 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 futher categorization

NTP:

Known carcinogen

WARNING:

Material may contain crystalline silica, a chemical that has been determined by the agencies listed above to cause cancer and other chemicals know 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 and/or MSHA approved respirator.

Section VII - Precautions for Safe Handlign and Use

VENTILATION:

RESPIRATORY PROTECTION:

PROTECTIVE GLOVES:

EYE PROTECTION:

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

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:

Eyes:

Ingestion:

Inhalation:

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 a 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 Requirement:

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 own use for the herein described product. Because the actual by others is beyond our control, Environmental Materials, Inc. makes no warranty expressed or implied regarding accuracy of the data or the results to be obtained from the use thereof.