



Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. This 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) Unhydrated Bed Ash OPF90 - J	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.
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Section I

Manufacturer's Name JEA	Emergency Telephone Number (904) 665-4284
Address (Number, Street, City, State, and ZIP Code) Northside Generating Station	Telephone Number for Information (904) 665-4284
4377 Heckscher Drive	Date Prepared 8/26/04
Jacksonville, FL 32202-3139	Signature of Preparer (optional)

Section II - Hazard Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Silicon dioxide	0.3 ^e .01 ^f	0.05 R ^e	NA	NA
Aluminum oxide	15 ^a 5 ^b	10	NA	NA
Iron oxide	10 ^c	5 ^a	NA	NA
Calcium oxide	5	2	NA	NA
Magnesium oxide	15 ^d	10	NA	NA
Calcium hydroxide	15 ^a 5 ^b	5	NA	NA
Calcium sulfate	15 ^a 5 ^b	10	NA	NA

- ^a Total
- ^b Respirable Fraction
- ^c Dust and fume, as Fe
- ^d Total Particulate
- ^e R measured as respirable fraction of the aerosol

f =30 mg/m³/ % SiO₂ + 2 (% SiO₂ assumed 100%), based on silica-crystalline

g =10 mg/m³/ % SiO₂ + 2 (% SiO₂ assumed 100%), based on silica-crystalline

Section III - Physical/Chemical Characteristics

Boiling Point N/A	N/A	Specific Gravity (H₂O = 1) N/A	pH 12.2 – 12.4
Vapor Pressure (mm Hg.) N/A	N/A	Melting Point N/A	
Vapor Density (AIR = 1) N/A	N/A	Evaporation Rate (Butyl Acetate = 1) N/A	
Solubility in Water Slight			
Appearance and Odor Gray Powder			

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) N/A	Flammable Limits N/A	LEL N/A	UEL N/A
Extinguishing Media N/A			
Special Fire Fighting Procedures N/A			
Unusual Fire and Explosion Hazards N/A			

Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	Skin contact and moisture
Incompatibility (Materials to Avoid) Strong acids, mineral acids, other oxidizing agents			
Hazardous Decomposition or Byproducts N/A			
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	N/A

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation? Yes	Skin? Yes	Ingestion? No
Health Hazards (Acute and Chronic) Possible irritation of eyes, skin and mucous membranes of respiratory system. Prolonged inhalation may cause fibrosis/chronic bronchitis, silicosis.			
Carcinogenicity: Crystalline silica	NTP? known human carcinogen	IARC Monographs? Group 1	OSHA Regulated? Yes
Signs and Symptoms of Exposure Possible irritation of eyes and/or skin. Silicosis and potentially lung tumors from exposure to crystalline silica.			
Medical Conditions Generally Aggravated by Exposure Respiratory diseases. Pre-existing diseases of the lung.			
Emergency and First Aid Procedures If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing difficult, give oxygen. Call Physician. In case of skin contact, flush skin with water for at least 15 min. Remove contaminated clothing and shoes. In case of eye contact, immediately flush with water for 15 min. Call physician.			

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled Recover undamaged and minimally contaminated material for reuse and reclamation. Shovel or sweep up.
Waste Disposal Method In accordance with applicable Federal, State and local regulations. Do not flush to surface water or sanitary sewer system. Reuse and reclaim where feasible.
Precautions to Be taken in Handling and Storing Avoid breathing dust. Avoid contact with eyes, skin or clothing. Wash thoroughly after handling. Wash clothes after use.
Other Precautions Avoid generating dusty conditions.

Section VIII - Control Measures

Respiratory Protection (<i>Specify Type</i>) NIOSH/MSHA approved air purifying respirator with a dust/mist cartridge or canister where airborne concentrations are expected to exceed exposure limits (e.g., 3 mg/m ³ , respirable particles; 10 mg/m ³ , particles).		
Ventilation Keep area well ventilated.	Local Exhaust N/A	Special N/A
	Mechanical (<i>General</i>) N/A	Other N/A
Protective Gloves Recommended.		Eye Protection Use close fitting goggles.
Other Protective Clothing or Equipment Sufficient protective clothing to minimize skin exposure.		
Work/Hygienic Practices Wash thoroughly with soap and water to avoid prolonged skin contact.		

Section IX - Special Precautions

Precautions to be taken in Handling and Storing N/A
Other Precautions N/A

Each MSDS must be reviewed for correctness and completeness every three years.

Reviewed by _____

Reviewed by _____

Revision date _____

Revision date _____