



# 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

<b>IDENTITY (As Used on Label and List)</b> Unhydrated Fly Ash                      OPF70 - 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.
--	---

## Section I

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

## 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 <sup>f</sup> .01 <sup>g</sup>	0.05 R <sup>e</sup>	NA	NA
Aluminum oxide	15 <sup>a</sup> 5 <sup>b</sup>	10	NA	NA
Iron oxide	10 <sup>c</sup>	5 <sup>a</sup>	NA	NA
Calcium oxide	5	2	NA	NA
Magnesium oxide	15 <sup>d</sup>	10	NA	NA
Calcium hydroxide	15 <sup>a</sup> 5 <sup>b</sup>	5	NA	NA
Calcium sulfate	15 <sup>a</sup> 5 <sup>b</sup>	10	NA	NA

- <sup>a</sup> Total
- <sup>b</sup> Respirable fraction
- <sup>c</sup> Dust and fume, as Fe
- <sup>d</sup> Total Particulate

- e R measured as respirable fraction of the aerosol  
 f =30 mg/m<sup>3</sup>/ % SiO<sub>2</sub> + 2 (% SiO<sub>2</sub> assumed 100%), based on silica-crystalline  
 g =10 mg/m<sup>3</sup>/ % SiO<sub>2</sub> + 2 (% SiO<sub>2</sub> assumed 100%), based on silica-crystalline

### Section III - Physical/Chemical Characteristics

<b>Boiling Point</b> N/A	N/A	<b>Specific Gravity (H<sub>2</sub>O = 1)</b> N/A	<b>pH</b> 12.4 – 12.6
<b>Vapor Pressure (mm Hg.)</b> N/A	N/A	<b>Melting Point</b> N/A	
<b>Vapor Density (AIR = 1)</b> N/A	N/A	<b>Evaporation Rate (Butyl Acetate = 1)</b> N/A	
<b>Solubility in Water</b> Slight			
<b>Appearance and Odor</b> Gray Powder			

### Section IV - Fire and Explosion Hazard Data

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

### Section V - Reactivity Data

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

## Section VI - Health Hazard Data

<b>Route(s) of Entry:</b>	<b>Inhalation?</b> Yes	<b>Skin?</b> Yes	<b>Ingestion?</b> No
<b>Health Hazards (Acute and Chronic)</b> Possible irritation of eyes, skin and mucous membranes of respiratory system. Prolonged inhalation may cause fibrosis/chronic bronchitis, silicosis.			
<b>Carcinogenicity:</b> Crystalline silica	<b>NTP?</b> known human carcinogen	<b>IARC Monographs?</b> Group 1	<b>OSHA Regulated?</b> Yes
<b>Signs and Symptoms of Exposure</b> Possible irritation of eyes and/or skin. Silicosis and potentially lung tumors from exposure to crystalline silica.			
<b>Medical Conditions Generally Aggravated by Exposure</b> Respiratory diseases. Pre-existing diseases of the lung.			
<b>Emergency and First Aid Procedures</b> 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

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

### Section VIII - Control Measures

<b>Respiratory Protection (<i>Specify Type</i>)</b> 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 <sup>3</sup> , respirable particles; 10 mg/m <sup>3</sup> , particles).		
<b>Ventilation</b> Keep area well ventilated.	<b>Local Exhaust</b> N/A	<b>Special</b> N/A
	<b>Mechanical (<i>General</i>)</b> N/A	<b>Other</b> N/A
<b>Protective Gloves</b> Recommended.		<b>Eye Protection</b> Use close fitting goggles.
<b>Other Protective Clothing or Equipment</b> Sufficient protective clothing to minimize skin exposure.		
<b>Work/Hygienic Practices</b> Wash thoroughly with soap and water to avoid prolonged skin contact.		

### Section IX - Special Precautions

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

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

Reviewed by \_\_\_\_\_

Reviewed by \_\_\_\_\_

Revision date \_\_\_\_\_

Revision date \_\_\_\_\_