

SAFETY DATA SHEET

1. Identification

Product identifier	Gypsum (Calcium Sulfate Dihydrate)
Other means of identification	None.
Recommended use	Industrial use.
Recommended restrictions	-
Manufacturer/Importer/Supplier/Distributor information	
Operating company	Southern Company Alabama Power Company P.O. Box 2641, Birmingham, AL 35291 1-800-424-9300
Operating company	Georgia Power Company 241 Ralph McGill Blvd NE, Atlanta, GA 30308 1-800-424-9300
Operating company	Gulf Power Company One Energy Place, Pensacola, FL 32520 1-800-424-9300
Operating company	Mississippi Power Company P.O. Box 4079, Gulfport, MS 39502-4079 1-800-424-9300

2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Carcinogenicity	Category 1A
	Specific target organ toxicity, repeated exposure	Category 2 (Lung)
OSHA defined hazards	Not classified.	
Label elements		



Signal word	Danger
Hazard statement	May cause cancer. May cause damage to organs (Lung) through prolonged or repeated exposure.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume. Use personal protective equipment as required.
Response	If exposed or concerned: Get medical advice/attention.
Storage	Store locked up if a potential inhalation exposure hazard exists.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Calcium sulfate dihydrate	10101-41-4	>97

Calcium Carbonate	471-34-1	1 - < 3
Quartz	14808-60-7	<1

Composition comments All concentrations are in percent by weight.

4. First-aid measures

Inhalation Remove to fresh air. Obtain medical attention if irritation develops and persists.

Skin contact Contact with dust: Wash with soap and water. Get medical attention if irritation develops or persists.

Eye contact Do not rub eyes. Flush with potable water for at least 15 minutes. Obtain medical attention if irritation develops and persists.

Ingestion Consult a physician.

Most important symptoms/effects, acute and delayed Dust irritates the respiratory system, and may cause coughing and difficulty breathing.

Indication of immediate medical attention and special treatment needed Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media Dry chemical, carbon dioxide, water spray, fog, or foam.

Unsuitable extinguishing media Not available.

Specific hazards arising from the chemical Above 1450°C – decomposes to calcium oxide and sulfur dioxide.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions Move containers from fire area if you can do so safely.

General fire hazards No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation. Avoid inhalation of dust and contact with skin and eyes. Use personal protection as recommended in Section 8 of the SDS.

Methods and materials for containment and cleaning up Avoid dust formation. Vacuum up spillage and collect in suitable container for disposal.

7. Handling and storage

Precautions for safe handling Use work methods which minimize dust production. Avoid inhalation of dust and contact with skin and eyes. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Keep container tightly closed. Store in a dry place. Store away from incompatible materials.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Calcium Carbonate (CAS 471-34-1)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.

US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Type	Value	Form
Quartz (CAS 14808-60-7)	TWA	0.3 mg/m3	Total dust.
		0.1 mg/m3	Respirable.
		2.4 mppcf	Respirable.

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Calcium sulfate dihydrate (CAS 10101-41-4)	TWA	10 mg/m ³	Inhalable fraction.
Quartz (CAS 14808-60-7)	TWA	0.025 mg/m ³	Respirable fraction.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Calcium Carbonate (CAS 471-34-1)	TWA	5 mg/m ³	Respirable fraction.
Quartz (CAS 14808-60-7)	TWA	10 mg/m ³ 0.05 mg/m ³	Total dust. Respirable dust.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure guidelines

* The above US. OSHA Table Z-3 (29 CFR 1910.1000) values for Quartz are calculated for 100% SiO₂: Respirable Quartz 250/(%SiO₂ + 5) mppcf, 10/(%SiO₂ + 2) mg/m³
Total dust: 30/(%SiO₂ + 2) mg/m³.

Appropriate engineering controls

Observe occupational exposure limits and minimize the risk of inhalation of dust.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields, goggles, or face shield.

Skin protection

Hand protection

Wear protective gloves. Suitable gloves can be recommended by the glove supplier.

Other

Wear suitable protective clothing.

Respiratory protection

If necessary, wear suitable NIOSH approved particulate respirator.

Thermal hazards

Not applicable.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. Wash hands after handling.

9. Physical and chemical properties

Appearance

White to off-white powder.

Physical state

Solid.

Form

Powder.

Color

White to off-white.

Odor

Low to no odor.

Odor threshold

Not applicable.

pH

7 (Approximately)

Melting point/freezing point

Not applicable.

Initial boiling point and boiling range

Not applicable.

Flash point

Not applicable.

Evaporation rate

Not available.

Flammability (solid, gas)

Non flammable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)

Not applicable.

Flammability limit - upper (%)

Not applicable.

Vapor pressure

Not applicable.

Vapor density

Not applicable.

Relative density

2.3 - 2.5

Solubility(ies)

Solubility (water)

0.21 g/100g of solution

Partition coefficient (n-octanol/water)

Not applicable.

Auto-ignition temperature	Not applicable.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Bulk density	30 - 100 lb/ft ³
Particle size	1 - 300 micron
Percent volatile	0

10. Stability and reactivity

Reactivity	Not available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	None known.
Incompatible materials	None known.
Hazardous decomposition products	Above 1450°C – decomposes to calcium oxide and sulfur dioxide.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Dust may irritate throat and respiratory system and cause coughing.
Skin contact	Not expected to be a significant route of exposure.
Eye contact	Not expected to be a significant route of exposure.
Ingestion	Not expected to be a significant route of exposure.

Symptoms related to the physical, chemical and toxicological characteristics Dust irritates the respiratory system, and may cause coughing and difficulty breathing.

Information on toxicological effects

Acute toxicity	Ingestion may cause irritation and malaise.
Skin corrosion/irritation	May cause irritation through mechanical abrasion.
Serious eye damage/eye irritation	May cause irritation through mechanical abrasion.

Respiratory or skin sensitization

Respiratory sensitization	Not available.
Skin sensitization	Not available.

Germ cell mutagenicity Knowledge about mutagenicity is incomplete.

Carcinogenicity Carcinogen hazards are related to the respirable form of the product.

IARC Monographs. Overall Evaluation of Carcinogenicity

Quartz (CAS 14808-60-7) 1 Carcinogenic to humans.

NTP Report on Carcinogens

Quartz (CAS 14808-60-7) Known To Be Human Carcinogen.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity Knowledge about reproductive effects is incomplete.

Specific target organ toxicity - single exposure Not available.

Specific target organ toxicity - repeated exposure May cause damage to organs (lungs) through prolonged or repeated exposure by inhalation.

Aspiration hazard Not classified.

Chronic effects Crystalline silica: Overexposure to the respirable dust of crystalline silica (quartz or cristobalite, less than or equal to 5 microns in size) may lead to silicosis in humans, which is a progressive and irreversible lung disease.

12. Ecological information

Ecotoxicity	The product is not classified as environmentally hazardous.
Persistence and degradability	The product is not biodegradable.
Bioaccumulative potential	The product is not bioaccumulating.
Mobility in soil	Not available.
Other adverse effects	Not available.

13. Disposal considerations

Disposal instructions	Dispose in accordance with all applicable regulations.
Local disposal regulations	Dispose of in accordance with local regulations.
Hazardous waste code	Not regulated.
Waste from residues / unused products	Not available.
Contaminated packaging	Dispose in accordance with applicable federal, state, and local regulations.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not available.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical Yes

SARA 313 (TRI reporting)
Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

US state regulations WARNING: This product contains a chemical known to the State of California to cause cancer.

US. Massachusetts RTK - Substance List

Calcium Carbonate (CAS 471-34-1)
 Calcium sulfate dihydrate (CAS 10101-41-4)
 Quartz (CAS 14808-60-7)

US. New Jersey Worker and Community Right-to-Know Act

Calcium Carbonate (CAS 471-34-1)
 Quartz (CAS 14808-60-7)

US. Pennsylvania Worker and Community Right-to-Know Law

Calcium Carbonate (CAS 471-34-1)
 Quartz (CAS 14808-60-7)

US. Rhode Island RTK

Not regulated.

US. California Proposition 65**US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance**

Quartz (CAS 14808-60-7)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	12-September-2014
Revision date	26-May-2015
Version #	04

List of abbreviations

References IARC Monographs. Overall Evaluation of Carcinogenicity (Volumes 1-106)

Disclaimer This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.

On December 19, 2014 EPA signed a final rule which establishes a comprehensive set of requirements for the disposal of coal combustion residuals (CCR – coal ash, gypsum) in landfills and surface impoundments. This has been finalized under solid waste provisions, subtitle D (non-hazardous) of the Resource Conservation and Recovery Act [40 CFR Part 257 Subpart D and 40 CFR Part 261 Subpart A Section 261.4].