

**ARKANSAS LIME COMPANY**  
**SAFETY DATA SHEET**

**1. Product and Company Identification**

**Product Name:** Calcium Carbonate - CaCO<sub>3</sub>

**Other Means of Identification:** “270”,  
“140”, “106”, “280”, Ag-Lime,  
Pulverized Limestone (PLS), Rock Dust  
Ground Calcium Carbonate (GCC)  
Agricultural Limestone

**Recommender Use of the chemical and restrictions on use:** Emissions control for coal fired generating power plants, feed supplement ingredient, roofing shingle filler, sealing agent for drilling fluid, blackboard chalk, extender in paints, printing and writing paper, adhesives

**Company Identification:**

Arkansas Lime Company  
P.O. Box 2356  
Batesville, AR 72501  
**Emergency:** 800 252-5580

**Information:** 870 793-2301

**2. Hazards Identification**

**Hazard Classification:** Eye Damage Category - 0, Skin Irritation Category - 0, Specific Organ Single Exposure Category – 0 (Respiratory System), Carcinogen Category – 0.

**Emergency Overview:** Pulverized Calcium Carbonate (PCC) / Ground Calcium Carbonate (GCC) are odorless and white or grayish in color. Contact with PCC or GCC can cause irritation to the eyes, skin, respiratory system and gastrointestinal tract.

**Potential Health Effects**

**Eyes:** Particles in eyes may cause irritation

**Skin:** Contact to pulverized limestone or limestone dust MAY cause dryness and irritation of the skin.

**Ingestion:** May cause discomfort of constipation is swallowed. If large quantities are swallowed, it may cause nausea, hypocalcaemia or hemorrhage.

**Inhalation:** Pulverized Limestone is not listed by MSHA, OSHA, or IARC as a carcinogen, but this product may contain trace amounts of crystalline silica in the form of quartz or cristobalite, which has been classified by IARC as (Group I) carcinogenic to humans when inhaled. Inhalation of silica can also cause a chronic lung disorder, silicosis. Wear NIOSH N-95 particulate respirators if airborne concentration exceeds PEL.

Inhalation of pulverized limestone or limestone dust may cause irritation of the respiratory system resulting in coughing and/or sneezing.

**Medical Conditions Aggravated by Exposure:** Contact may aggravate disorders of eyes and respiratory system.

**Potential Environmental Effects:** This material is slightly alkaline and if released into water or moist soil may cause an increase in pH. Provide general ventilation for dust control to meet TLV requirements. Provide appropriate dust respirators for non-routine exposure for non-routine use above TLV

**Signal Word:** Danger!

**Hazard Statements:** Danger! Causes skin irritation. Causes serious eye damage. May cause cancer through inhalation. May cause respiratory irritation.

**Symbols:**



**Precautionary Statements:**

Do not handle until all safety precautions have been read and understood.

Calcium Carbonate dust is a physical irritant of the eyes, nose, mucous membranes and skin of humans.

If in eyes: Irritation may result. Immediately and thoroughly flush eyes with large amounts of water, occasionally lifting the upper and lower eyelids. Rinse cautiously with water for several minutes. Recommended not to wear contacts, however if contacts are being work - Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention immediately.

In Inhaled: Exposure to large amounts of this substance may cause coughing, sneezing, and nasal irritation. Remove person(s) to fresh air and keep comfortable for breathing. Have victim blow his or her nose, or use a soft tissue to remove particulates or residues from the nostrils. Seek medical attention if you feel unwell.

If on skin; Irritation may exist. Immediately and thoroughly wash contaminated skin with soap and water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash it before reuse.

If exposed or concerned: Seek medical advice.

Dispose of contents or containers in accordance with applicable regulations.

**Hazards not otherwise classified:** Not a dangerous substance according to GHS classification criteria.

**Ingredients with unknown toxicity:** NA

**3. Composition/Information on Ingredients**

| Component          | CAS #      | % by weight |
|--------------------|------------|-------------|
| Calcium Carbonate  | 1317-65-3  | >97 %       |
| Crystalline Silica | 14808-60-7 | <1%         |

**4. First Aid Measures**

**Eyes:** Do not rub eyes and immediately flush eyes with generous amounts of water for at least 15 minutes. Pull back the eyelid to ensure that all lime dust has been washed out. Seek medical advice, if needed.

**Ingestion:** Never give anything by mouth unless instructed to do so by medical personnel. If swallowed, do not induce vomiting. Seek medical advice immediately.

**Inhalation:** In case of accident by inhalation, remove to fresh air and keep a rest. Seek medical advice if necessary.

**Most important symptoms and effects, both acute and delayed:** Irritation of skin, eyes, gastrointestinal tract or respiratory tract. Long-term exposure by inhalation may cause permanent damage. This product contains crystalline silica, which has been classified by IARC as (Group 1) carcinogenic to humans when inhaled. Inhalation of silica can also cause a chronic lung disorder, silicosis.

**Indication of any immediate medical attention and special treatment needed:** See first aid information above. Note to Physicians: Provide general supportive measures and treat symptomatically.

## **5. Fire Fighting Measures**

**Fire Hazards:** PCC / GCC (Limestone) is not combustible or flammable. and is not considered to be an explosion hazard.

**Hazardous Combustion Products:** N/A.

**Extinguishing Media:** Use media suitable to extinguish surrounding fire.

**Fire Fighting Instructions:** Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

## **6. Accidental Release Measures**

### **Spill /Leak Procedures:**

No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this SDS. Avoid dusting. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gath and store in a sealed container pending a waste disposal evaluation.

**Small Spills:** Use dry methods to collect spilled materials. Avoid generating dust. Do not clean up with compressed air. Residue on surfaces may be water washed.

**Large Spills:** Use dry methods to collect spilled materials. Evacuate area downwind of clean-up operations to minimize dust exposure.

**Containment:** For large spills, as much as possible, avoid the generation of dusts. Prevent release to sewers or waterways.

**Cleanup:** Residual amounts of material can be flushed with large amounts of water. Equipment can be washed with either a mild vinegar and water solution, or detergent and water.

## **7. Handling and Storage**

**Handling:** Avoid creating or inhaling dust. Do not ingest or talk internally.

**Storage** Store in a cool, dry, and well-ventilated location. Store in original containers or dry bulk tanks. Protect containers from physical damage.

## **8. Exposure Controls/Personal Protection**

| <b>Component</b>   | <b>CAS #</b> | <b>Exposure Limits</b>   |
|--------------------|--------------|--|
| Calcium Carbonate  | 1317-65-3    | OSHA PEL: 15 mg/m <sup>3</sup> (Total)<br>5 mg/m <sup>3</sup> (respirable)<br>ACGIH TLV: 2 mg/m <sup>3</sup>                       |
| Magnesium          | 7439-95-4    | OSHA PEL: 15 mg/m <sup>3</sup> (total),<br>5 mg/m <sup>3</sup> (respirable)<br>ACGIH TLV: 10 mg/m <sup>3</sup>                     |
| Crystalline Silica | 14808-60-7   | OSHA PEL: 10 mg/m <sup>3</sup> divided<br>by % quartz + 2 (respirable fraction)<br>ACGIH TLV: 0.025 mg/m <sup>3</sup> (respirable) |

**Engineering Controls:** Provide ventilation adequate to maintain PELs.

### **Individual Protection Measures:**

**Respiratory Protection:** Use NIOSH/MSHA approved respirators if airborne concentration exceeds PEL.

**Skin Protection:** Use appropriate gloves to prevent skin contact. Where there is a risk of skin contact, wear suitable clothing to prevent such contact.

**Eye Protection:** Use safety glasses with side shields or safety goggles. Contact lenses should not be worn when working with lime products.

**Other:** Eye wash station and emergency showers are recommended.

## **9. Physical and Chemical Properties CaCO<sub>3</sub>**

**Appearance:** White or grayish-white material, chalk taste.

**Odor:** Slightly “earthy” but not offensive

**Physical State:** Solid

**Melting Point:** 825C (aragonite); 1,339C (calcite)

**Vapor Pressure:** N/A

**Specific Gravity at 20 degrees C:** 2.7 - 2.9.

**pH at 25 degrees C in water saturated solution:** <8.7

**Vapor Density:** N/A

**Solubility in Water:** 0.013 g/L

**Molecular weight:** 100.09 g/mol

## **10. Stability and Reactivity**

**Stability:** Chemically stable.

**Incompatibility/Conditions to Avoid:** Windy environment could cause excessive dusting.

**Hazardous Decomposition Products:** None

**Hazardous Polymerization:** None

## **11. Toxicological Information:**

This product is not listed by MSHA, OSHA, or IARC as a carcinogen, but this product may contain trace amounts of crystalline silica, which has been classified by IARC as (Group I) carcinogenic to humans when inhaled in the form of quartz or cristobalite.

**Routes of Entry:** Inhalation, ingestion, eye or skin contact

**Symptoms (Acute):** Respiratory Irritation, Eye Irritation

**Exposure limits:** See section(s) 4 and 8 above.

## **12. Ecological Information:**

**Ecotoxicity:** None

**Environmental Fate:** This material shows no bioaccumulation effect or food chain concentration toxicity.

## **13. Disposal Considerations:**

Dispose of in accordance with all applicable federal, state, and local environmental regulations. If this product as supplied, and unmixed, becomes a waste, it will not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act.

## **14. Transportation Information:**

Limestone (PCC/GCC) is not classified as a hazardous material by DOT when transported by any means.

## **15. Regulatory Information:**

### **EPA Regulations:**

RCRA Hazardous Waste Number: not listed (40 CFR 261.33)

RCRA Hazardous Waste Classification (40 CFR 261): not classified

CERCLA Hazardous Substance (40 CFR 302.4) unlisted specific per RCRA, Sec. 3001; CWA, Sec. 311 (b) (4); CWA, Sec. 307 (a), CAA, Sec. 112

CERCLA Reportable Quantity (RQ) not listed.

SARA 311/312 Codes: not listed.

SARA Toxic Chemical (40 CFR 372.65): not listed.

SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed, Threshold Planning Quantity (TPQ): not listed.

All chemical ingredients are listed on the USEPA TSCA Inventory List.

### **OSHA/MSHA Regulations:**

Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): 5 mg/M<sup>3</sup> TWA-8

MSHA: not listed.

OSHA Specifically Regulated Substance (29CFR 1910) not listed.

NFPA: Health-1, Fire-0, Reactivity-0

**State Regulations:** Consult state and local authorities for guidance.

## **16. Other Information:**

**Date of preparation or last revision of this Safety Data Sheet:** 05/19/2015