

CARTHAGE
CRUSHED LIMESTONE
EST. 1888

1331 Civil War Road Carthage MO 64836
Phone (417) 358-3257 * Fax (417) 358-5527

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Section 1: Identification

This section identifies the chemical on the SDS as well as the recommended uses. It also provides the essential contact information of the supplier. Required information consists of:

Product Name: Limestone (Calcium Carbonate)

Product Synonyms/Trade Names: Calcium Carbonate, Pulverized Limestone, Ground or “Fine Grind” Limestone, Ground [Calcium Carbonate], Agricultural Limestone, Limestone Aggregates. Trade Names: C 16/200 (Orange Label), C 4/S [Powder], (Black Label), C 5 (Blue Label), Agriculture Purposes C-5 (Green Label)

Recommended Uses: Selected Ground Limestone for “Livestock”, “Poultry” Feeds, Agriculture Purposes, & Industries.

Company – Supplier: Carthage Crushed Limestone
1331 Civil War Road – P.O. Box 1086
Carthage, Missouri 64836-5086

Daily Contact [M-F]: 417.358.3257 (7:00 am – 3:00 pm CT) or 417.237.7090 (8 – 5)
[Customers].

Emergency Contact: 417.793.8391 or 417.327.9287

CHEMTREC: 800-424-9300

Section 2: Hazard(s) Identification

This section identifies the hazards of the chemical presented on the SDS and the appropriate warning information associated with those hazards. Required information consists of:

Hazard classification of the chemical: CaCO₃ [100%] CCL Product: 97% or <[99.78%]

GHS Classification – U.S.- H315: May Cause Skin Irritation [2]

U.S.- H320: Can Cause Eye Irritation [2B]

U.S.- H335: May Cause Respiratory Irritation [3]

Hazard Pictogram: GHS – U.S. = # GHS07

Hazard Statement(s): Not considered a dangerous substance according to GHS Classification Criteria.

Other Precaution(s): No known OSHA Hazards or MSHA Hazard under normal conditions

GHS – U.S. Hazard Identification: Not Available or Not Applicable

Precautionary statement(s): GHS-U.S. (Listing Classification(s))

- P261, P264, P71, P280, P302+P352, P304+P340, P305+351+P338, & P312

Description of any hazards not otherwise classified: None under normal conditions.

HMIS/NFPA Hazard Rating(s): (4) – (0): [4=Extreme, 3=Serious, 2=Moderate, 1=Slight, 0= Minimal]:

- Health = 1, Flammability = 0, Instability = 0, & Special Hazards = Not Listed

Unknown: “Acute Toxicity” (GHS – U.S.): No Data Available or Not/Applicable

[Note]: Calcium Carbonate in studies @ 97%-100% “Mono-Constituent level(s) considered “Hypo-Allergenic”!

Section 3: Composition/Information on Ingredients

This section includes information on all substances, mixtures, and all chemicals where a trade secret is claimed. The required information consists of:

Substance(s) & Type: Limestone “Mono-constituent”

Chemical name: CaCO₃ = Calcium Carbonate

Common name and synonyms: Pulverized Limestone, Ground Limestone, Ground Calcium Carbonate, Limestone Aggregates – Fine Grind Grade.

Chemical Abstracts Service (CAS) Number and other unique identifiers: #471-34-1

Stabilizing Additives: No Additives to the base chemical, (CaCO₃).

Composition Information: Calcium Carbonate (CaCO₃) & Silica (SiO₂) [Total], < 1.5%

Section 4: First-Aid Measures

This section includes recommendations for immediate medical care and special treatment, if required. The required information consists of:

Description of Emergency and/or First Aid Procedures:

- **Inhalation**: In case of accidental inhalation exposure, remove to fresh air source away from contaminate, and keep at rest, monitoring for adequate breathing, and improvement. Other medical intervention is usually unnecessary. If victim continues to have problems, contact or transport person to closest medical facility for evaluation.
- **Ingestion**: No special precautions. If swallowed, do not induce vomiting.
- **Skin Contact**: No special precautions, wash contacted area with water, flushing away any concentrated amounts. Monitor area.
- **Eye Contact**: Rinse/flush eyes with water, removing glasses, and/or contacts (if wearing) prior. Continue to monitor and if irritation or discomfort continues, flush again with water. If problem continues, seek medical evaluation.

Section 5: Fire-Fighting Measures

This section provides recommendations for fighting a fire caused by the chemical. The required information consists of:

Description of Fire-Fighting Recommendation(s):

- ❖ **Fire**: Calcium Carbonate – CaCO₃ “Not Flammable”
- ❖ **Explosion**: Not an explosion hazard
- ❖ **Fire Extinguishing Media/Source**: Water, water fog, foam, dry chemical powder, carbon dioxide soda. Apply any of above to extinguish fire media source, without concern for “Heat Convection” ignition of Limestone.
- ❖ **Flash Point**: Not Applicable
- ❖ **Auto-ignition Point**: Not Applicable

Recommendations on special protective equipment or precautions for firefighters: In event of a fire, all responding personnel should wear full protective turn-out gear, with a “NIOSH”- approved SCBA with full face-piece operated in the pressure demand cycle mode, or other positive pressure mode.

Section 6: Accidental Release Measures

This section provides recommendations on the appropriate response to spills, leaks, or releases, including containment and cleanup practices to prevent or minimize exposure to people, properties, or the environment. The required information may consist of recommendations for:

Use of Personal Precautions, Protective Equipment, & Emergency Protocols: Avoid Clouds or heavy dust formations. Avoid breathing any concentrations of fine particles of fugitive emissions. Wear appropriate personal protection equipment (as assigned for work environment), [PPE's], specified in Section # 8 (SDS).

Methods & Materials for Containment – Environmental Concerns: No special environmental precautions required. Sweep up any spills, discharges. Keep in suitable closed containers for disposal, or remove to outside stockpiles. Calcium Carbonate [CaCO₃], “Limestone” is not a classified “Toxic Pollutant”, nor is it listed as an “Hazardous Substance” under Section(s) 307. or 311. of the Federal Clean Water Act. Accidental spills, discharges can be cleaned up by sweeping, vacuuming, or flushing with water. **Note:** Under Code of Federal Regulations/Federal Registry (Title 21 CFR 582.5191 FDA: This substance (Calcium Carbonate) is generally recognized as safe when used in accordance with proper, good manufacturing and/or feeding practices. This is known as {G.R.A.S.}!

Section 7: Handling and Storage

This section provides guidance on the safe handling practices and conditions for safe storage of chemicals. The required information consists of:

Precautions for safe handling: Provide for appropriate exhaust ventilation, and dust collection, where dust drop-points exist or may be created.

Recommendations on the conditions for safe storage, including any incompatibilities: Store in dry, protected area, material is a secondary product to animal feed ingredient. **Do Not** store where prohibited contamination could possibly occur, or with incompatible materials. (See Section 10).

Section 8: Exposure Controls/Personal Protection

This section indicates the exposure limits, engineering controls, and personal protective measures that can be used to minimize worker exposure. The required information consists of:

- **OSHA Permissible Exposure Limits (PELs):**

<u>Compound</u>	<u>Exposure Limits (mg/m3)</u>	<u>REL (mg/m3)</u>
CaCO3	OSHA/MSHA- PEL (TWA)	NIOSH (TWA)
[Calcium Carbonate]	T=15 R=5 8/40h	T=10 R=5 8/40h
[Calcium Silica] (1)	T= 30(%SIO2)+2 F R=10(%SIO2)+2	R=.05(free silica) +/- F

[List – Ranges (2) are disclosed for (T) = Total Dust & (R) = Respirable Dust

- **Appropriate Engineering Control Measures:**

Eye Wash – Ensure that an eye wash station, or portable eye wash storage kit is available close to “Work Station(s).

Exposure to Dust Particulates – Evaluate degree of exposure potential and be sure to wear PPE’s.

Ventilation – Use exhaust ventilation or provide adequate ventilation & dust collection to reduce exposures below PEL appropriate levels.

- **Personal Protective Equipment:**

Eye Protection – ANSI, CSA, or ATM approved glasses and/or goggles’. Dust Goggles are recommended where excessive emissions might be present.

Respiratory Protection – No respiratory protection required under normal operating conditions. Provide adequate ventilation.

Skin Protection – Wear appropriate gloves to reduce skin exposure.

PPE’s- Wear all required, issued PPE’s per Company Protocols.

Section 9: Physical and Chemical Properties

This section identifies physical and chemical properties associated with the substance or mixture. The minimum required information consists of:

Formula/Name: CaCO₃

Molecular Weight: 100.09

Appearance (state, color, etc.): White, White/Grayish

Physical State: Solid

Upper/Lower Flammability or Explosive Limits: Not Applicable – No Listing Available

Odor: No Data Available

Vapor Pressure: Not Available

Odor Threshold: Not Available

Vapor density: Not Available

pH: 7-9 (Solution)

Melting Point/Freezing point: 825 * C

Solubility: Slightly Soluble in Water

Initial Boiling Point and Boiling Range: Not Available

Flash Point: Not Available - Not Applicable

Evaporation Rate: Not Available

Flammability (solid, gas): Not Available – Rated: Non Flammable

Partition coefficient: n-octanol/water: Not Available

Auto-ignition temperature: No Data Available

Decomposition temperature: 825* C

Viscosity: Not Available

**The SDS may not contain every item on the above list because information may not be relevant or is not available. When this occurs, a notation to that effect must be made for that chemical property. Manufacturers may also add other relevant properties, such as the dust deflagration index (Kst) for combustible dust, used to evaluate a dust's explosive potential

Section 10: Stability and Reactivity

This section describes the reactivity hazards of the chemical and the chemical stability information. This section is broken into three parts: reactivity, chemical stability, and other. The required information consists of:

Reactivity: CaCO₃ – Limestone not generally reactive under normal conditions.

Chemical stability: Stable under normal ambient temperatures, Stable under normal conditions of storage and shipment handling.

Conditions to Avoid: Moisture, Dusting – Dust Cloud Formations

Incompatible Materials: Acids – Strong Oxidizing Agent(s), Magnesium, fluorine

Hazardous Polymerization: Will not occur

Other:

List of all other conditions that should be avoided: None Known

List of any known or anticipated hazardous decomposition products that could be Produced: None Known – Not Applicable

Section 11: Toxicological Information

This section identifies toxicological and health effects information or indicates that such data are not available. The required information consists of:

Routes of Entry: Inhalation, Ingestion, Eyes, & Skin Contact

- **Symptoms (Acute):** Mild Respiratory Irritation, Eye Irritation
- **Delayed Effects (Acute):** No Information/data available
- **Acute Toxicity – CaCO₃:** No Information/data available
- **Carcinogenicity – CaCO₃:** No Information/data available
[Limestone (CaCO₃) is not listed as a known carcinogen]
- **Specific Target Organ Toxicity:** No Information/data available or listed

○ **Chronic Effects:**

- **Mutagenicity:** No evidence of a mutagenic effect
- **Teratogenicity:** No evidence of a teratogen effect [birth defect]
- **Sensitization:** No evidence of a sensitization effect
- **Reproductive:** No evidence of reproductive effects
- **Other Medical Studies:** No information Available

Section 12: Ecological Information (non-mandatory)

This section provides information to evaluate the environmental impact of the chemical(s) if it were released to the environment. The information may include:

Overview: This Product [CaCO₃] is not expected to be harmful to the ecology

- **Eco-toxicity:** No information/data available
- **Mobility:** No information/data available
- **Persistence:** No information/data available
- **Degradability:** No information/data available
- **Bio-accumulative Potential:** No information/data available
- **Mobility in soil:** No information/data available
- **Results of PBT Assessment:** No information/data available
- **Total Environmental:** This chemical released into the environment will not have a significant impact
- **Physical Effects:** No information/data available

Section 13: Disposal Considerations (non-mandatory)

The information may include:

Description of appropriate disposal method(s): Calcium Carbonate [CaCO₃] is not classified as a identified hazardous waste under RCRA Section 3001. Use normal waste disposal procedures that are in compliance with Federal, State (Name), and Local Governmental Regulations.

RCRA – P Series: Not Listed (40 CFR EPA)

RCRA – U Series: Not List (40 CFR EPA)

Section 14: Transport Information (non-mandatory)

This section provides guidance on classification information for shipping and transporting of hazardous chemical(s) by road, air, rail, or sea. The information may include:

CaCO3

Land Transport *ADR/RID* & *GGVS/GGVE* (Cross Border/Domestic Shipment):

- Not Regulated

Maritime Transport *IMDG/GGV Sea* – *USCG*

- Not Regulated

Air Transport/Shipment *ICAO-TI* & *IATA-DGR*

- Not Regulated

Railroad/Shipment *ADRR/RID* & (Domestic – Transport Point to Point)

- Not Regulated

➤ **Ground DOT Proper Shipping Name: CaCO3 – CAS # 471-34-1**

Section 15: Regulatory Information (non-mandatory)

This section identifies the safety, health, and environmental regulations specific for the product that is not indicated anywhere else on the SDS. The information may include:

Chemical Inventory Status – Part 1

<u>Ingredient</u>	<u>TSCA</u>	<u>EC</u>	<u>Japan</u>	<u>Australia</u>
Calcium Carbonate (471-34-1)	Yes	Yes	Yes	Yes

Chemical Inventory Status – Part 2

<u>Ingredient</u>	<u>Korea</u>	<u>Canada</u>	<u>Philippines</u>
		<u>DSL</u>	<u>NDSL</u>
Calcium Carbonate (471-34-1)	Yes	Yes	Yes

** **TSCA:** CAS # 437-34-1: CaCO3 is listed on the TSCA Inventory Sheet

*** **Health & Safety Reporting List:** None of the chemical components are listed H & S List

MSDS Conversion Date : August 25th, 2015

OSHA SDS created by Carthage Crushed Limestone : August 25, 2015
By: JLS

This section indicates when the SDS was prepared or when the last known revision was made. The SDS may also state where the changes have been made to the previous version. You may wish to contact the supplier for an explanation of the changes.

OSHA, 29 CFR 1910.1200(g) and Appendix D. United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS), third revised edition, United Nations, 2009. These references and other information related to the revised Hazard Communication Standard can be found on OSHA's Hazard Communication Safety and Health Topics page, located at: <http://www.osha.gov/dsg/hazcom/index.html>.

Disclaimer: This brief provides a general overview of the safety data sheet requirements in the Hazard Communication Standard (see 29 CFR 1910.1200(g) and Appendix D of 29 CFR 1910.1200). It does not alter or determine compliance responsibilities in the standard or the Occupational Safety and Health Act of 1970. Since interpretations and enforcement policy may change over time, the reader should consult current OSHA interpretations and decisions by the Occupational Safety and Health Review Commission and the courts for additional guidance on OSHA compliance requirements. **Please note that states with OSHA-approved state plans may have additional requirements for chemical safety data sheets, outside of those outlined above.**