



# SDS – SAFETY DATA SHEET

## 1. IDENTIFICATION

**Product Identifier:** CALCIUM CARBONATE

**Synonyms:** Feeding Limestone

**Chemical Formula:** CaCO<sub>3</sub>

**Product Name:** Dairy White Barn Lime: Regular, Dairy White Barn Lime: Coarse, Thrifty Barn Lime, Bedding Lime

**Recommended Use of the Chemical:** Animal applications

**Manufacturer / Supplier:** ILC RESOURCES

**Address:** 3301 106th Circle, Urbandale, IA 50322-3740

**Website:** <http://www.ilcresources.com>

**Phone:** 515-243-8106

**24 hour Emergency Phone:** 515-243-8106

## 2. HAZARD(S) IDENTIFICATION

**Classification of the Substance or Mixture:**

STOT SE3

**Risk Phrases:**

R37: Irritating to respiratory system.

**Label Elements:**

**Signal Word:** Warning

**Pictogram:**



**Hazard Statements:**

H335: May cause respiratory irritation.

**Precautionary Statements:**

P261: Avoid breathing dust/fume/gas/mist/vapors/spray

**HMIS / NFPA Hazard Rating:**

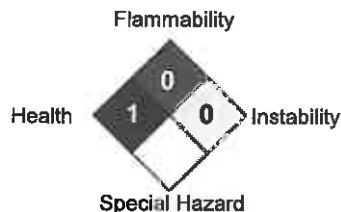
4=EXTREME

3= SERIOUS

2= MODERATE

1=SLIGHT

0=MINIMAL



## 3. COMPOSITION INFORMATION / INGREDIENTS

| Ingredient        | CAS Number | EC Number | Percent |
|-------------------|------------|-----------|---------|
| Calcium Carbonate | 471-34-1   | 207-439-9 | 100%    |

CALCIUM CARBONATE

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Effective Date: 02/10/14

BARN LIME

#009310

2/10/14

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## 4. FIRST-AID MEASURES

**Inhalation:** If a person breathes in large amounts of this material, move the exposed person to fresh air at once. Other measures are usually unnecessary.

**Ingestion:** No special precautions.

**Skin Contact:** No special precautions; flush with water.

**Eye Contact:** If material comes in contact with the eyes, promptly wash the eyes with water. Get medical attention if any discomfort continues.

## 5. FIRE-FIGHTING MEASURES

**Fire:** Not flammable.

**Explosion:** Not an explosion hazard.

**Fire Extinguishing Media:** Water, water fog, Foam, dry chemical powder, Carbon Dioxide. Use appropriate media to extinguish source.

**Special Information:** In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode, if necessary.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures:** Avoid dust formation. Avoid breathing vapors, mist or gas. Wear appropriate personal protective equipment as specified in Section 8.

**Environmental Precautions and Methods and Materials for Containment and Cleaning Up:** No special environmental precautions required. Sweep up and shovel. Keep in suitable, closed containers for disposal. Calcium Carbonate (Limestone) is not classified as a "toxic pollutant" or a "hazardous substance" under Sections 307 and 311 of the Clean Water Act. Accidental spills can be cleaned up by sweeping, vacuuming, or flushing with water. Under Code of Federal Registry -- (Title 21CFR § 582.5191) {"...This substance is generally recognized as safe when used in accordance with good manufacturing or feeding practice."} This is known as G.R.A.S.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling:** Provide appropriate exhaust ventilation at places where dust is formed.

**Conditions for Safe Storage, Including Any Incompatibilities:** Store in a dry area; material is an animal feed ingredient. Do not store with incompatible materials (reference Section 10.)

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### **Airborne Exposure Limits:**

PEL (OSHA): total dust 15 mg/m<sup>3</sup> (TWA); respirable dust 5 mg/m<sup>3</sup> (TWA)

TLV (ACGIH): total dust 10 mg/m<sup>3</sup>

**Ventilation System:** A system of local and / or general exhaust may be necessary to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

**Personal Respirators (NIOSH Approved):** An approved NIOSH dust respirator should be used when dust exposure standard is exceeded (nuisance dust 15 mg/m<sup>3</sup>).

**Skin Protection:** Protective clothing is not essential.

**Eye Protection:** Use chemical safety goggles.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Light gray to tan color; coarse to small granules to powder

**Odor:** Odorless

**Odor Threshold:** Not determined

**pH:** 8.5 – 9.5 at 10% solids

**Melting Point:** 800C (1,472F) - Decomposes on heating

**Boiling Point / Boiling Range:** No data available

**Flash Point:** Not applicable

**Evaporation Rate (BuAC=1):** No data available

**Flammability:** Not flammable

**Upper / Lower Flammability or Explosive Limits:** No data available

**Vapor Pressure (mm Hg):** No data available

**Vapor Density (Air=1):** No data available

**Relative Density:** 2.93 g/cm<sup>3</sup> at 25C (77F)

**Specific Gravity (water=1):** 2.7 – 2.9

**Solubility:** Negligible

**Partition Coefficient: n-octanol / water:** No data available

**Auto-ignition Temperature:** Not applicable

**Decomposition Temperature:** No data available

**Viscosity:** No data available

**Molecular Weight:** 100.1 g/mol

## 10. STABILITY AND REACTIVITY

**Reactivity and / or Chemical Stability:** Stable under ordinary conditions of use and storage.

**Possibility of Hazardous Reactions and Conditions to Avoid:** High temperatures above 825C and incompatibles (acids.)

**Incompatible Materials:** Strong oxidizing agents & Acids.

**Hazardous Decomposition Products:** Heating of product above 825C will decompose to Calcium Oxide with release of Carbon Dioxide.

## 11. TOXICOLOGICAL INFORMATION

**Emergency Overview:** CAUTION! MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT. NUISANCE DUST.

### Potential Health Effects:

**Inhalation:** Excessive concentrations of a nuisance dust may cause reactions such as coughing, sneezing and nasal irritation.

**Ingestion:** Non-toxic.

**Skin Contact:** Not expected to be a health hazard from skin exposure.

**Eye Contact:** Nuisance dust may cause mechanical irritation.

**Chronic Exposure:** No data available.

**Aggravation of Pre-existing Conditions:** No data available.

**Specific Target Organ Toxicity - Single Exposure (Globally Harmonized System:)** No data available.

**Specific Target Organ Toxicity - Repeated Exposure (Globally Harmonized System:)** No data available.

**Germ Cell Mutagenicity:** No data available.

**Reproductive Toxicity:** No data available.

**Aspiration Hazard:** No data available.

**Numerical Measures of Toxicity:** Cancer Lists: NTP Carcinogen

| Ingredient                   | Known | Anticipated | IARC Category |
|------------------------------|-------|-------------|---------------|
| Calcium Carbonate (471-34-1) | No    | No          | None          |

**Acute Toxicity:**

LD50 Oral - rat - 6,450 mg/kg

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** No data available.

**Persistence and Degradability:** No data available.

**Bioaccumulative Potential:** No data available.

**Mobility in Soil:** No data available.

**Results of PBT and vPvB assessment:** No data available.

**Other adverse effects:** No data available.

## 13. DISPOSAL CONSIDERATIONS

Calcium Carbonate (Limestone) is not classified as a hazardous waste under RCRA Section 3001. Use normal waste disposal procedures that are in compliance with federal, state, and local regulations.

## 14. TRANSPORT INFORMATION

**Land Transport ADR/RID and GGVS/GGVE (Cross Border / Domestic)**  
Not regulated

**Maritime Transport IMDG/GGVSea**  
Not regulated

**Air Transport ICAO-TI and IATA-DGR**  
Not regulated

## 15. REGULATORY INFORMATION

### Chemical Inventory Status – Part 1

| Ingredient                   | TSCA | EC  | Japan | Australia |
|------------------------------|------|-----|-------|-----------|
| Calcium Carbonate (471-34-1) | Yes  | Yes | Yes   | Yes       |

### Chemical Inventory Status – Part 2

| Ingredient                   | Korea | Canada |      | Phil. |
|------------------------------|-------|--------|------|-------|
|                              |       | DSL    | NDSL |       |
| Calcium Carbonate (471-34-1) | Yes   | Yes    | No   | Yes   |

### Federal, State & International Regulations - Part 1

| Ingredient                   | SARA 302 |     | SARA 313      |       |
|------------------------------|----------|-----|---------------|-------|
|                              | RQ       | TPQ | List Chemical | Catg. |
| Calcium Carbonate (471-34-1) | No       | No  | No            | No    |

**Federal, State & International Regulations - Part 2**

| Ingredient                   | RCRA   |        | TSCA |
|------------------------------|--------|--------|------|
|                              | CERCLA | 261.33 | 8(d) |
| Calcium Carbonate (471-34-1) | No     | No     | No   |

|  |                  |                       |                 |                     |
|--|------------------|-----------------------|-----------------|---------------------|
| <b>Chemical Weapons Convention:</b> No |                  | <b>TSCA 12(b):</b> No |                 | <b>CDTA:</b> No     |
| <b>SARA 311/312:</b>                   | <b>Acute:</b> No | <b>Chronic:</b> No    | <b>Fire:</b> No | <b>Pressure:</b> No |
| <b>Reactivity:</b> No                  |                  | Pure / Solid          |                 |                     |

**Poison Schedule:** None allocated

**16. OTHER INFORMATION**

*Effective Date:* 02/10/14 – Standardized for GHS / REACH

*Previous Revision:* 09/19/13

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