

**ILC RESOURCES  
MATERIAL SAFETY DATA SHEET**

**Section 1 - CHEMICAL PRODUCT & COMPANY IDENTIFICATION**

ILC RESOURCES  
10536 Justin Drive  
Urbandale, IA 50322-3730  
MSDS Information: 1-515-243-8106

24-Hour Emergency Number  
1-515-243-8106

PRODUCT NAME: Dairy White Barn Lime: Regular, Dairy White Barn Lime: Coarse, Thrifty Barn Lime,  
Bedding Lime

COMMON NAME: Barn Lime, bedding lime, calcium carbonate    CHEMICAL NAME: calcium carbonate

CHEMICAL FAMILY: carbonates

CHEMICAL FORMULA: CaCO<sub>3</sub>

CAS #: 471-34-1

MOLECULAR Wt: 100.09

**Section 2 – COMPOSITION & INFORMATION ON INGREDIENTS**

<b>INGREDIENTS</b>	<b>PERCENTAGES</b>	<b>PEL (OSHA)</b>	<b>TLV (ACGIH)</b>
calcium carbonate	(by weight) 90-100%	total dust 15 mg/m <sup>3</sup> TWA respirable dust 5 mg/m <sup>3</sup> TWA	total dust 10 mg/m <sup>3</sup>

**Section 3 – HAZARDS IDENTIFICATIONS**

**\* E M E R G E N C Y   O V E R V I E W \***

Light gray to tan granular, odorless. Non-flammable. Non-hazardous to eyes, skin and throat.

POTENTIAL HEALTH EFFECTS

ROUTES OF ENTRY: Eye contact, dermal, inhalation, ingestion.

EFFECTS OF OVEREXPOSURE:

Eyes - Nuisance dust may cause mechanical irritation

Skin - Non-hazardous

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

Ingestion - Non-hazardous

CHRONIC EFFECTS OF OVEREXPOSURE: None known.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

CARCINOGENICITY:        NTP: No            IARC: No            OSHA: No

#### Section 4 – FIRST AID MEASURES

##### EMERGENCY AND FIRST AID PROCEDURES:

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

Skin Contact - No special precautions; flush with water.

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.

#### Section 5 – FIRE-FIGHTING MEASURES

FLASH POINT: N/A      AUTO IGNITION TEMP: N/A

FLAMMABLE LIMITS IN AIR	<u>LOWER</u>	<u>UPPER</u>
% BY VOLUME	N/A	N/A

EXTINGUISHING MEDIA: Use appropriate media to extinguish source.

SPECIAL FIRE FIGHTING PROCEDURES: N/A

UNUSUAL FIRE AND EXPLOSION HAZARDS: CaCO<sub>3</sub> is neither a fire hazard nor an explosive hazard.

HAZARD RATINGS:    NFPA 704: Health - 1                  Fire - 0                  Reactivity - 0

#### Section 6 – ACCIDENTAL RELEASE MEASURES

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.

#### Section 7 – HANDLING & STORAGE

HANDLING AND STORING: Store in a dry area; material is an animal feed ingredient.

#### Section 8 – EXPOSURE CONTROL – PERSONAL PROTECTION

ENGINEERING CONTROLS: Mechanical ventilation may be necessary to maintain dust below exposure levels.

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

EYE PROTECTION: Safety goggles.

PROTECTIVE CLOTHING: Not essential.

OTHER (SAFETY SHOWERS, EYE WASH STATIONS, ETC.): None.

**Section 9 – PHYSICAL & CHEMICAL PROPERTIES**

APPEARANCE: Light gray to tan color.  
Coarse to small granules to powder

ODOR: Odorless

BOILING POINT: Not determined

SPECIFIC GRAVITY (water=1): 2.7–2.9

VAPOR PRESSURE: N/A VAPOR DENSITY (air=1): N/A

SOLUBLE IN WATER: Negligible

EVAPORATION RATE (ether=1): None

pH: 8.5–9.5 at 10% solids

**Section 10 – STABILITY & REACTIVITY**

STABILITY: STABLE   
UNSTABLE

INCOMPATIBILITY: Material is soluble in acid with concomitant release of carbon dioxide

HAZARDOUS DECOMPOSITION PRODUCTS: Heating of product above 825°C will decompose to calcium oxide with release of carbon dioxide.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: High temperatures above 825 °C

MATERIALS TO AVOID: Acids

**Section 11 – TOXICOLOGY INFORMATION**

Note: ILC Resources has not conducted specific toxicity tests on this product.

**Section 12 – ECOLOGICAL INFORMATION**

Note: ILC Resources has not conducted specific ecological tests on this product. The product is also used as an animal feed ingredient and agricultural liming material.

**Section 13 – DISPOSAL CONSIDERATION**

WASTE DISPOSAL PROCEDURES: 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.

**Section 14 – REGULATORY INFORMATION**

DOT PROPER SHIPPING NAME: Not regulated by DOT DOT HAZARD CLASS: N/A

DOT IDENTIFICATION NUMBER: N/A

DOT EMER. RESPONSE GUIDE NO.: N/A

**Section 15 – OTHER INFORMATION**

This product does not contain toxic chemicals subject to the reporting requirements of SARA Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

SARA SECTION 311–312 HAZARD CATEGORIES (40 CFR 370.2):

FIRE: No      SUDDEN RELEASE OF PRESSURE: No      REACTIVE: No      ACUTE: No  
CHRONIC: No

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