



# Safety Data Sheet

## J. A. Jack & Sons, Inc.

### 1 PRODUCT AND COMPANY IDENTIFICATION

Name: Limestone  
Synonym: Ag Lime, Calcium Carbonate  
Chemical Name: Calcium Carbonate  
Chemical Formula:  $\text{CaCO}_3$   
Product Uses: pH Adjustment, Agriculture, Construction, & Industry

Manufactured by: J.A. Jack & Sons, Inc.  
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Seattle, Washington 98134

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### 2 HAZARD IDENTIFICATION

Limestone is not considered a hazardous material. Upon contact can cause a mild irritation to eyes, skin, or respiratory system. Limestone react with acid to release  $\text{CO}_2$ .

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	Chemical Formula	Common Name	%	CAS
Calcium Carbonate	$\text{CaCO}_3$	Limestone	98%	471-34-1
Crystalline Silica	$\text{SiCO}_2$	Quartz	> .1%	14808-60-7

### 4 FIRST AID/MEASURES

EYES: Wash eyes with water, lifting upper and lower eyelids. Seek medical attention

SKIN: Brush off skin or wash with soap and water. Seek medical attention if irritation develops or persists.

INHALATION: Remove from exposure to fresh air. If not breathing, perform CPR. If breathing is difficult, give oxygen. Seek medical attention if cough or other symptoms appear.

INGESTION: Do NOT induce vomiting. If victim is alert, give 2-4 glasses milk or water, and seek medical aid.



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Exposure may aggravate conditions of the eyes, skin, gastrointestinal tract, or respiratory system.

### 5 FIREFIGHTING MEASURES

Material is non-combustible; but during a fire will decompose releasing toxic, irritating, and/or corrosive fumes. Use appropriate gear and agent most appropriate to extinguish surrounding fire.

### 6 ACCIDENTAL RELEASE MEASURES

Keep away from acids and other incompatible material. Sweep or vacuum material and store in dry container. Do not clean up with compressed air. Minimize dust creation, and prevent from entering sewers and waterways. Residual amounts can be washed away with large amounts of water.

### 7 HANDLING AND STORAGE

Store in closed plastic or non-aluminum metal container, in a cool, dry place, and avoid physical damage to containers. Do not store near acids or other incompatible materials.

### 8 EXPOSURE CONTROLS/PERSON PROTECTION

<b>CALCIUM CARBONATE</b>	OSHA PEL TWA 8/40H	NIOSH REL 10/40H	ACGIH TLV 8/40h
TOTAL DUST	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
RESPIRABLE	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	

<b>CRYSTALLINE SILICA</b>	OSHA PEL TWA 8/40H	NIOSH REL 10/40H	ACGIH TLV 8/40h
RESPIRABLE	10/(SiCO <sub>3</sub> %+ 2)	0.05 mg/m <sup>3</sup>	0.025 mg/m <sup>3</sup>

Provide proper ventilation to maintain these limits. Use approved respirator if airborne levels exceed recommended levels. Appropriate personal protective equipment recommended for preventing potential irritation. Eyewash and/or showers should be made available.

### 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White/Tan Material Ranging In Size  
ODOR: Odorless  
pH: 8-9  
MELTING POINT: 2,442 °F  
BOILING POINT: decomposes



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FLASH POINT:	1,517 °F
EVAPORATION RATE:	N/A
FLAMMIBILITY:	N/A
RELATIVE DENSITY:	2.711 g/cm <sup>3</sup>
SOLUBILITY IN WATER:	Not soluble in water
VISCOCITY:	N/A

### 10 STABILITY AND REACTIVITY

Chemically stable but will react with acids to create CO<sub>2</sub>. Will ignite on contact with fluorine. Will decompose at 1,742 °F to create calcium oxide and CO<sub>2</sub>.

Avoid contact with the following due to volatile reactions:

- Fluorine
- Aluminum
- Magnesium
- Ammonium Salts
- Hydrogen
- Acids

### 11 TOXICOLOGICAL INFORMATION

Calcium Carbonate is found to be lethal in rats if 6,540 mg/kg is taken orally, and is not a known carcinogen, but may contain crystalline silica that is a known carcinogen to MSHA, OSHA, and IARC.

### 12 ECOLOGICAL INFORMATION

Owing to the higher pH of calcium carbonate, it may be harmful to certain aquatic life and systems in high concentrations. This material has not been shown to cause bioaccumulation effect or food chain toxicity.

### 13 DISPOSAL INFORMATION

Product must be disposed of in accordance with local, state, and federal environmental regulations. Unaltered this product does not meet requirements under the US Resource Conservation and Recovery Act of a hazardous material.

### 14 TRANSPORTATION INFORMATION

Limestone is not considered by US DOT to be a hazardous material.

### 15 REGULATORY INFORMATION

U.S. EPA Regulations:

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

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



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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 US EPA TSCA Inventory List.

### OSHA/MSHA Regulations:

Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): 5mg/M3 TWA-8  
MSHA: not listed  
OSHA Specifically Regulated Substance (29 CFR 1910): not listed

### State Regulations:

Consult state and local authorities for guidance. Components found in this product may contain trace amounts of inherent naturally occurring elements (such as, but not limited to arsenic and cadmium) that may be regulated under California Proposition 65 and other States regulations.

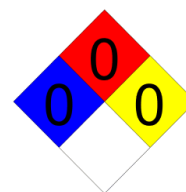
### Canada:

WHMIS Classification: "D2A" Materials Causing Other Toxic Effects  
Canada NDSL: Listed

## 16 OTHER INFORMATION

Prepared by J.A. Jack & Sons, Inc.  
Date Prepared April 17, 2015

NFPA Hazard Class:      Health: 0      Flammability: 0      Reactivity: 0



Abbreviations:	N/A	Not Available/Not Applicable
	IARC	International Agency of Research on Cancer
	ACGIH	American Conference of Governmental Industrial Hygienists
	TWA	Time Weighted Average
	PEL	Permissible Exposure Level
	TLV	Threshold Limit Value
	REL	Recommended Exposure Limit

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