



# American International Chemical, Inc.

Corporate Offices: (800) 238-0001

Internet: [www.aicma.com](http://www.aicma.com) Email: [info@aicma.com](mailto:info@aicma.com)

## MATERIAL SAFETY DATA SHEET

### CALCIUM OXIDE

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#### SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

American International Chemical, Inc. 135 Newbury Street Framingham, MA 01701	Emergency Number: Chemtrec Information Number:	800-424-9300 703-527-3887 800-238-0001
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Date: August 2007

Synonyms: Lime, quicklime, calcium monoxide, burnt lime

CAS #: 1305-78-8

DOT Hazard Class: **AIR ONLY (samples) Corrosive UN1910**  
**GROUND TRANSPORTION - Not Regulated**

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#### SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

Calcium Oxide 99.5% min.

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#### SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Odorless white powder, that is irritating to the eyes, skin and respiratory tract.

##### POTENTIAL HEALTH EFFECTS:

Skin: Can cause severe irritation or burns.

Eyes: Can cause severe irritation or burns.

Inhalation: Can cause irritation to respiratory tract.

Ingestion: Harmful if swallowed, may cause irritation or burns to the mouth or stomach.

Target Organs: Respiratory system, lungs, kidneys, prostate, blood.

CARCINOGENICITY: Not Identifiable

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#### **SECTION 4 - FIRST AID MEASURES**

**Skin:** Immediately wash skin with soap and water for at least 15 minutes.

**Eyes:** Immediately flush with plenty of water for at least 15 minutes, holding eye lids apart.

**Inhalation:** Remove to the fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

**Ingestion:** CALL A PHYSICIAN. If swallowed, do NOT induce vomiting. If conscious, give large amounts of water. Follow with diluted vinegar, fruit juice or whites of eggs beaten with water.

**On All Of The Above:** Consult a physician if symptoms persist.

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#### **SECTION 5 - FIRE FIGHTING MEASURES**

Flash Point: Non Combustible (Dry Product)

Flammable Limits: Non Combustible (Dry Product)

Extinguishing Media: Use media that is appropriate to treat surrounding fire.

Special Fire Fighting Procedures: Use fire fighting procedure that is appropriate to treat surrounding fire. All firefighters should use self-contained breathing apparatus and full fire-fighting turnout gear.

Unusual Fire Explosion Hazard: Contact with moisture or water may generate sufficient heat to ignite combustible materials.

Auto Ignition Temperature: Not Applicable

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#### **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Isolate hazard area and deny entry to unnecessary or unprotected personnel. Contain spill, sweep up, collect and place in a disposal container. Avoid runoff into storm sewers and ditches which lead to waterways.

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#### **SECTION 7 - HANDLING AND STORAGE**

Avoid contact with skin, eyes and clothing. Use with adequate ventilation. Avoid breathing dust. Use normal personal hygiene and housekeeping. Store in cool dry area away from other incompatible materials. Product is slightly hygroscopic and should be stored in a dry area to prevent moisture pick up and caking.

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#### **SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

RESPIRATORY PROTECTION: Use NIOSH/MSHA approved respirators. Over 11ppm, a self-contained breathing apparatus is advised.

VENTILATION REQUIREMENTS: Ventilate as necessary to eliminate dust from the work area and to meet TLV requirements.

**SKIN AND EYE PROTECTION:**

Use rubber or neoprene gloves, chemical goggles and clothing sufficient to protect skin from dust.

**WORK, HYGIENIC PRACTICES:**

As required to protect skin and eyes from dust, safety showers and/or eye wash should be available. Do not leave food or smoke in work area. Wash thoroughly and remove or clean any contaminated clothing.

EXPOSURE LIMITS:            TLV/TWA       -       2 mg/m<sup>3</sup>  
   PEL                        5 mg/m<sup>3</sup>

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**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Boiling Point: 2850°C ( 5162°F)

Vapor Pressure (MM Hg): Not Applicable

Vapor Density (AIR=1): 1.9

Specific Gravity (H<sub>2</sub>O=1): 3.4

Bulk Density: 58 - 78 lbs/Cu.Ft.

Percent Volatile by Volume (%): Zero

Melting Point: 2572°C (4661°F)

Evaporation Rate (Butyl Acetate=1): Not Applicable

Solubility in Water: Negligible (<0.1%)

pH: Not Applicable

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**SECTION 10 - STABILITY AND REACTIVITY**

CHEMICAL STABILITY: Stable under normal temperatures and pressures.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: None Identified

KEEP AWAY FROM: Water, fluorine, strong acids.

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**SECTION 11 - TOXICOLOGICAL INFORMATION**

Not Available

**SECTION 12 - ECOLOGICAL INFORMATION**

Not available

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**SECTION 13 - DISPOSAL CONSIDERATIONS.**

Dispose of in accordance with all federal, state and local regulations.

RCRA WASTE #: Not Listed

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**SECTION 14 - TRANSPORTATION INFORMATION**

D.O.T. SHIPPING NAME:..... **Ground Transportation** - Calcium Oxide -Not Regulated

D.O.T. SHIPPING NAME:..... **Air Transportation Only** (samples) - Calcium Oxide - Regulated

TECHNICAL SHIPPING NAME:..... Calcium Oxide

U.N./N.A. NUMBER.....1910

D.O.T. HAZARD CLASS AND GROUP NUMBER...8, P.G. III

D.O.T. LABEL/PLACARD.....8, Corrosive

PRODUCT LABEL.....8, Corrosive

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**SECTION 15 - REGULATORY INFORMATION**

OSHA STATUS: Unlisted

TSCA STATUS: Listed

CERCLA REPORTABLE REQUIREMENTS: (RQ) None

SARA TITLE III INFORMATION:

Section 302 Extremely Hazardous Substance: Unlisted

Section 313 Toxic Chemicals: Unlisted

Section 311/312 Hazard Category: Immediate (acute) Health Hazard, Delayed (chronic).

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**SECTION 16 - OTHER INFORMATION**

HMIS Rating            Health 3            Flammability 0            Reactivity 2

Reason for Issue: Changed Date

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