



## LIME WATER SATURATED

### Section 1 : Product Identification

Product Name: Lime water

Formula : N/A

C.A.S. : Not applicable to mixtures.

Product Code : 21200

### Section 2 : Component Mixture

S.No.	Component	CAS Number	%
1.	Water Deionized	CAS# 7732-18-5	Balance v/v
2.	Calcium hydroxide	CAS# 1305-62-0	~ 2%

### Section 3 : Hazard Identification

Generally not hazardous in normal handling, however good laboratory practices should always be used. Avoid long term exposure to skin or by inhalation.

### Section 4 : First Aid Measures

Generally not hazardous in normal handling, however good laboratory practices should always be used. Avoid long term exposure to skin or by inhalation.

First Aid: Skin : Wash exposed area with soap and water. If irritation persists, seek medical attention.

Eyes : Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek medical aid.

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

Ingestion : If swallowed, induce vomiting immediately after giving two glasses of water. Never give anything by mouth to an unconscious person.

### Section 5 : Fire Fighting Measures

Fire Extinguisher Type : Any means suitable for extinguishing surrounding fire

Fire/Explosion Hazards : None Known.

Fire Fighting Procedure : Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

### Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spills with absorbent (vermiculite, sand, fuller's earth) and place in plastic bags for later disposal.

### Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Use with adequate ventilation. Do not allow water to get into the container because of violent reaction. Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood.

Storage: Store in a cool, dry area. Store in a tightly closed container. Keep away from strong acids.



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## Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing the material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits: OSHA Vacated PELs: Calcium hydroxide: 5 mg/m<sup>3</sup> TWA

## Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Always use a NIOSH-approved respirator when necessary.

## Section 9 - Physical and Chemical Properties

Physical State: Liquid

Color: Colorless to turbid white

Odor: Odorless.

Vapor Pressure: No information found.

Vapor Density: No information found.

Evaporation Rate: No information found.

Viscosity: No information found.

Boiling Point: No information found.

Freezing/Melting Point: No information found.

Decomposition Temperature: No information found.

Solubility in water: Soluble.

## Section 10 - Stability and Reactivity

Chemical Stability: Stable at room temperatures in close containers under normal storage and handling conditions. Readily absorbs carbon dioxide from air forming calcium carbonate.

Conditions to Avoid: Incompatible materials, heat.

Incompatibilities with Other Materials: Phosphorus, maleic anhydride, nitromethane, nitroethane, nitroparaffins, nitropropane, polychlorinated phenols + potassium nitrate, carbon dioxide, acids.

Hazardous Decomposition Products: Calcium oxide.

Hazardous Polymerization: Has not been reported.

## Section 11 - Toxicological Information

RTECS: CAS# 1305-62-0: EW2800000.

LD50/LC50: CAS# 1305-62-0:

Draize test, rabbit, eye: 10 mg Severe,

Oral, mouse: LD50 = 7300 mg/kg,

Oral, rat: LD50 = 7340 mg/kg.

## Section 12 - Ecological Information

Environmental: This compound shows no bioaccumulation or food chain concentration toxicity potential.

Aquatic toxicity is the function of an alkalinity effect. Addition of lime to soft water lakes has increased biological activity, possibly by providing a carbon dioxide reservoir. Calcium hydroxide does not degrade oxidatively; it is neutralized by absorption of atmospheric carbon dioxide.



Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.

Section 14 - Transport Information

Not Regulated

Section 15 Regulatory Information

SARA 311/312: Acute: Yes Chronic: No Fire: No Pressure: No

Reactivity: No (Pure / Solid)

Section 16. Other Information

Product Use:

Laboratory Reagent.