

Science Kit

Scholar<sup>®</sup>

Chemistry

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Material Safety Data Sheet

| Section 1 Chemical Product and Company Information |                                  |
|----------------------------------------------------|----------------------------------|
| Product                                            | LIMEWATER SOLUTION               |
| Synonyms                                           | Calcium Hydroxide Water Solution |

CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300

Section 2 Hazards Identification

Emergency Overview

CAUTION!  
MAY CAUSE IRRITATION TO SKIN AND EYES.  
Avoid contact with skin, eyes and clothing.  
Store in a cool place away from acids.  
Target organs: None known.

0 = Minimal  
1 = Slight  
2 = Moderate  
3 = Serious  
4 = Severe

|            |   |
|------------|---|
| Health     | 0 |
| Fire       | 0 |
| Reactivity | 0 |
| Contact    | 0 |

HMIS \*

| Section 3 Composition / Information on Ingredients |           |        |                          |
|----------------------------------------------------|-----------|--------|--------------------------|
| Chemical Name                                      | CAS #     | %      | TLV Units                |
| Calcium hydroxide                                  | 1305-62-0 | 0.14%  | TWA: 5 mg/m <sup>3</sup> |
| Water                                              | 7732-18-5 | 99.86% | None established.        |
| (ACGIH 2001)                                       |           |        |                          |

Section 4 First Aid Measures

INGESTION:

Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT:

Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN CONTACT:

Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

General information:

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. In fire conditions, water may evaporate from this solution which may cause hazardous decomposition products to be formed as dust or fume.

Extinguishing Media:

Use any media suitable for extinguishing surrounding fire.

Flash Point:

N/A

Autoignition temperature:

N/A

Explosion Limits: Lower:

N/A

Upper:

N/A

0 = Minimal  
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NFPA

None listed.

Section 6 Accidental Release Measures

Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation. Recover for use if not contaminated. Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water. Avoid runoff into storm sewers and ditches which lead to waterways.

Swift Science #12

Section 7 Handling & Storage

GENERAL STORAGE CODE GREEN

Read label on container before using. Do not wear contact lenses when working with chemicals. Keep container tightly closed. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.  
Handling: Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid ingestion. Do not inhale vapors, spray or mist. Wash thoroughly after handling. Remove and wash clothing before reuse.  
Storage: Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 Exposure Controls / Personal Protection

Engineering controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: Use a chemical fume hood and/or wear a NIOSH/MSHA-approved respirator.

Section 9 Physical & Chemical Properties

Physical state:

Liquid.

Boiling point:

100°C (212°F) (water)

Appearance:

Clear, water-like.

Freezing / Melting point:

0°C (32°F) (water)

Odor:

No odor.

Decomposition temperature:

N/A

pH:

N/A

Solubility:

Complete.

Vapor pressure (mm Hg):

14 (water)

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

~ 1.0 (water)

Vapor Density (Air = 1):

0.7 (water)

Percent volatile (%):

99.86%

Evaporation rate (Butyl acetate = 1):

< 1

Molecular formula:

Mixture.

Viscosity:

N/A

Molecular weight:

Mixture.

Section 10 Stability & Reactivity

Chemical stability:

Stable

Hazardous polymerization:

Will not occur.

Conditions to avoid:

Excessive temperatures and heat to cause evaporation.

Incompatibilities with other materials:

Strong acids, fluorine.

Hazardous decomposition products:

None known.

Section 11 Toxicological Information

Effects of overexposure:

Prolonged or repeated contact may cause irritation. May be harmful if swallowed. To the best of our knowledge, this chemical, physical and toxicological properties have not been thoroughly investigated. Exercise appropriate procedures to minimize potential hazards.

Section 12 Ecological Information

Data not yet available.

Section 13 Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

Section 14 Transport Information

UN/NA number:

N/A

Shipping name:

Not Regulated.

Hazard class:

N/A

Packing group:

N/A

Exceptions:

N/A

Section 15 Regulatory Information

Data not yet available.

Section 16 Additional Information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. \* Hazardous Materials Industrial Standards.