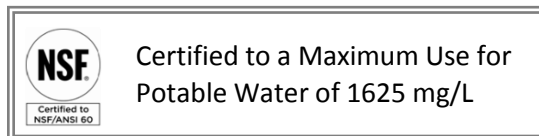


1. Product And Company Identification

Product Name: UltraLime
Synonyms/ Use: Calcium hydroxide slurry,
pH Control Aid/ Lime Softener Adjunct



Manufacturer/Supplier:
Applied Specialties, Inc.
33555 Pin Oak Parkway
Avon Lake, OH 44012
Customer Information Number: 440-933-9442
ASI Emergency 24-Hour Response: 216-973-6118

For Chemical Emergency Spills, Leaks, Fire, Exposure or Accident call Chemtrec 800-424-9300 Day or Night

2. Hazardous Identification

Signal Word: **Danger**

Pictograms:



Hazard Statement(s): Causes severe skin burns and serious eye damage.

Precautionary Statement(s):

Prevention Do not breathe mist, vapors, or spray (Aspiration hazard if inhaled or swallowed) (P260)
Wash hands thoroughly after handling. (P264)
Do not eat, drink or smoke when using this product. (P270)
Use only outdoors or in a well-ventilated area. (P271)
Wear protective gloves and eye/ face protection. (P280)

Carcinogenicity: None of the components in this product at concentrations greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen
Reproductive toxicity: No reproductive effects reported
Teratogenicity: No teratogenic effects reported
Genotoxicity: No mutagenic effects reported
Aquatic toxicity: Not determined

Precautionary Statements for response, storage, and disposal

Specific treatment (see first aid section of label). (P321)
Take off contaminated clothing and wash before reuse. (P362)
Wash contaminated clothing before reuse. (P363)
Store locked up. (P405)
Dispose of contents/container in compliance with local, state, and federal regulations. (P501)



3. Chemical Composition

Component	CAS Number	Wt%	Exposure Guidelines
Calcium hydroxide	1305-62-0	36 – 39	5 mg/m ³ TWA/Ceiling ACGIH
Magnesium hydroxide	1309-42-8	0 – 5	
Water	7732-18-5	41 - 44	

Chemical identity of some ingredients may be withheld as confidential as permitted by 29 CFR 1910.1200 and various State right to know laws.

4. First Aid Measures

General Advice: Remove contaminated clothing immediately.

Eye Contact: Immediately flush eyes with large amounts of running water for at least 15 minutes, lifting the lower and upper lids. Consult an ophthalmologist immediately.

Skin Contact: Wash thoroughly with soap and water to remove any chemical from skin. Get medical attention. Contaminated clothing should be removed and laundered.

Inhalation: If difficulties occur after product has been inhaled, remove to fresh air and get medical attention. If breathing has stopped start artificial respirations and call 911.

Ingestion: Immediately rinse mouth. Get medical attention immediately. Do not induce vomiting. Never give anything by mouth to an unconscious person or if person is having convulsions. If vomiting occurs naturally, have casualty lean forward to reduce the risk of aspiration.

Contact may aggravate disorders of the eyes, skin, gastrointestinal tract and respiratory system.

5. Fire Fighting Measures

Flash Point and Method: Not combustible or flammable. Reacts vigorously with acids. May release sufficient heat to ignite surrounding combustible materials or cause rupture of containers if exposed to acids or other incompatible materials.

Extinguishing Media

Use extinguishing media suitable for surrounding fires. Do not use water or halogenated compounds. Water spray and jet is unsuitable extinguishing media for safety reasons. If water is used, restrict pedestrian and vehicular traffic in areas where a slip hazard may exist.

General Hazard

Restrict pedestrian and vehicular traffic. Keep upwind. If exposed to heat may dehydrate to form dust. Avoid breathing dust from this material. Avoid bodily contact with the material. Containers can build pressure if exposed to heat. Cool containers using water.

Fire Fighting Equipment

Wear NIOSH/MSHA approved, pressure-demand self-contained breathing apparatus and full protective gear. The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed in accordance with all federal, state and local regulations.



6. Accidental Release Measures

Restrict access until clean-up operations are complete. Wear appropriate Personal Protective Equipment and stay upwind. Note that spills pose a slip hazard.

1. Ventilate the spill area. Dike around the spill area to prevent spreading.
2. Spills should be collected using an approved non-aluminum liquid vacuum if possible for reuse.
3. Apply an absorbing compound to any residual spilled material and shovel into plastic and then a non-aluminum disposal container.
4. Small amounts of residue may be flushed with large amounts of water. Equipment can be washed with mild vinegar and water solution or detergent and water.
5. Dispose of all material in accordance with to all FEDERAL, STATE AND LOCAL REGULATIONS.

NOTE: DO NOT wash or pour into any surface waters/ground waters or streams or directly into sewers.

7. Handling and Storage

Handling

Avoid contact with eyes, skin and clothing. Use with adequate ventilation. Practice good industrial hygiene. Wash after handling and before eating, drinking, or smoking.

Storage

Do not store in aluminum containers. Keep container tightly closed in a cool, dry and well-ventilated place. Do not store with acids or other incompatible materials. Store in a secured place.

Temperature Tolerance – Avoid extremes.

8. Exposure Controls/Personal Protection

Exposure Guidelines

Work in well ventilated areas. Do not breathe mists/dust/aerosols. Wear protective clothing as necessary to minimize contact. Handle in accordance with good industrial hygiene and safety practice.

Engineering Controls

Use process enclosures, local exhaust ventilation, or other engineering controls to reduce airborne levels below established guidelines. Use local exhaust ventilation in areas where these levels may be exceeded.

Personal Protection

- Respirator: Wear a NIOSH/MSHA approved or equivalent vapor/particulate respirator as necessary.
- Eye Protection: Tight fitting safety goggles and face shield
- Gloves: Chemical resistant gloves and check with glove manufacturers' recommendations, consider all work functions when selecting the best glove
- Clothing: Impermeable protective clothing as necessary to minimize contact.
- Other: Eye wash and safety showers should be in immediate work area; practice good industrial hygiene and safety practices. Refer to Section 3 for exposure limits.

9. Physical And Chemical Properties

Appearance	Opaque white slurry
Odor	Odorless
Freezing Point	0°C (32°F)
Flash Point	Not applicable
Bulk Density	11.25lb/gal
Product pH	~12.4



Solubility In Water

Dispersible

10. Stability And Reactivity

Stability The product is stable under normal temperatures and pressures.
Hazardous Reactions No hazardous reactions when stored and handled according to instructions.
Incompatibilities Avoid temperature extremes: Decomposes at 580°C to form Calcium Oxide.
Reacts violently with acids.
Materials to avoid Avoid contact with acids, fluoridated and brominated compounds, aluminum, zinc and lead, phosphorous, powdered metals.
Hazardous Decomposition Products Carbon dioxide.
Oxidizing Properties Not fire-propagating.

11. Toxicological Information

Acute Toxicity for Calcium hydroxide
Oral Rat LD₅₀ >2,000 mg/kg
Irritation/Corrosion Skin Corrosive Rabbit (OECD Guideline 404)
Eye Corrosive Rabbit

12. Ecological Information

Toxicity to Fish
LC₅₀ (96 hr)* Gambusia affinis 100 – 1000 mg/L
Toxicity Aquatic Invertebrates
Not determined
Bioaccumulation – Accumulation in organisms is not to be expected.

13. Disposal Considerations

Product Residues
Disposal – Dispose in accordance with all federal, state, and local regulations. It is the waste generator’s responsibility to determine if a particular waste is hazardous under RCRA
Used Packaging
Dispose of in a licensed facility and in compliance with local, state, and federal regulations. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

14. Transport Information

Proper Shipping Name Industrial Water Treating Compound
Hazard Class Not regulated
Identification Number Not applicable
Packaging Group Not applicable
Label Required Not applicable

15. Regulatory Information

Federal Regulations
CERCLA/SUPERFUND (40 CFR 117, Section 302)



Safety Data Sheet

SDS Date: 1/29/2015
150299637-1

Component	CAS Number	Concentration	RQ
None listed			

SARA EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355)

Component	CAS Number
None listed	

SARA HAZARD CATEGORIES (40 CFR 370, Sections 311, 312)

[X] Acute [] Chronic [] Fire [] Pressure [X] Reactive [] None

SARA TOXIC SUBSTANCES (40 CFR 372, Section 313)

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the emergency planning and Right – to – know Act of 1986 and of 40CFR 372.

Component	CAS Number
None listed	

US TOXIC SUBSTANCES CONTROL ACT/INVENTORY STATUS (TSCA)

All components are listed

RCRA STATUS

It is the waste generator’s responsibility to determine if a particular waste is hazardous under RCRA

NTP, IARC, OSHA, & ACGIH STATUS

None of the components in this product at concentrations greater than 0.1% are listed

DOT REPORTABLE QUANTITY (RQ) (49 CFR, Subchapter C, Section 172.101, Appendix A)

Component	CAS Number	Concentration	RQ
None listed			

State Regulations

PENNSYLVANIA, NEW JERSEY, and MASSACHUSETTS RIGHT-TO-KNOW INFORMATION:

Component	CAS Number
Calcium hydroxide	1305-62-0
Magnesium hydroxide	1309-42-8

CALIFORNIA PROPOSITION 65: THIS PRODUCT DOES NOT CONTAIN ANY CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER OR REPRODUCTIVE HARM.

16. Other Information

HMIS		0	Minimal
Health:	1	1	Slight Hazard
Flammability:	0	2	Moderate Hazard
Reactivity:	0	3	Serious Hazard
		4	Severe Hazard

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Revision 1/ Supersedes 11/19/14 / mtl

Revisions: sections 1, 16