

# UltraLime Technical Data Sheet

**TYPE: pH Control Aid and Lime Softener Adjunct**

## DESCRIPTION

**UltraLime**, an aqueous suspension of Calcium Hydroxide, is a white, stable slurry mixture.

**UltraLime** is compatible with most aerobic and anaerobic treatments. **UltraLime** is an effective replacement for dry lime sources such as hydrated, quick or pebble lime in lime or lime-soda softening applications. **UltraLime** is a stable liquid but bulk storage requires supplemental agitation. Storage of drums and totes for periods over 30 days will require supplemental agitation or mixing to maintain homogenous slurry.

## TYPICAL PROPERTIES

Appearance	White slurry; Odorless
Specific Gravity	1.35 +/- 0.02 g/mL
pH	12.4 +/- 1.0
Weight/Gallon	11.25 lbs/Gallon
Solubility in Water	Dispersible
Typical Solids %	40% +/- 2%

## HEALTH AND SAFETY INFORMATION

**UltraLime** is a strong alkali which may cause skin irritation after repeated contact and will cause burns or irritation to the eyes.

As with any chemical, the operator should be completely familiar with the safe handling of **UltraLime** before it is used. The Safety Data Sheet should be read and understood before **UltraLime** is used.

## ADVANTAGES

- More efficient acid neutralization and metal removal
- Easy to use liquid requires no dry storage or mixing
- Buffered pH control
- Will lower total dissolved solids (TDS) when treating sulfate waste streams
- Very cost effective
- Eliminates maintenance typical of lime make-down systems

## APPLICATION

**UltraLime** should be fed into the mixing zone of a solids contact clarifier when used as the lime source in a lime or lime-soda softener application. **UltraLime** will eliminate the need to handle or store dry lime sources. Since **UltraLime** is a consistent and uniform liquid, its feed and system control are easy to automate.

**UltraLime** is an excellent building block for making liquid blends of Calcium and Magnesium hydroxide slurries. The use of these slurries in treating high silica waters eliminates the need for supplemental feeding of Magnesium sulfate (Epsom salt).

**UltraLime** should be fed continuously.

The addition of **UltraLime** will help prevent corrosion difficulties and the formation of objectionable odors in sewerage lift stations.



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When **UltraLime** is used as an acid neutralizing agent in acid waste applications it should be fed as far from the rapid mix section as possible to increase distribution of the product within the liquid waste. A pH feedback loop is the best way to control the proper feed rate of **UltraLime**.

## CONTROL AND FEEDING

Application dosage may vary, but your Applied Specialties, Inc. technical engineer will assist you with an on-site test to determine optimum system settings. Your ASI engineer will also assist in identifying the best application point and in sizing and selecting any necessary feed or control equipment.

## HANDLING AND STORAGE

When handling any chemical, proper care and good housekeeping should be exercised. Consult the Safety Data Sheet for specific spill reporting, clean up and disposal procedures.

Never use pressure to empty drum. Drum must not be washed out and used for other purposes.

Keep containers closed. Keep drum out of sun and away from heat. Keep from freezing, store above 50°F.

## PACKAGING

**UltraLime** is available in 275 and 330-gallon tote tanks (IBCs) but **UltraLime** is primarily available in bulk tank trucks. For information on other delivery types, contact your ASI Representative.

## DOT INFORMATION

Proper Shipping Name:	Industrial Water Treating Compound
Hazard Class:	None
UN Number:	Not Applicable
Packaging Group:	None
Labeling Required:	None
NMFC:	50227 Sub 2

### IMPORTANT NOTICE

The information and statements herein are believed to be reliable, but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. **NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.** Nothing herein is to be taken as permission, inducement or recommendation to practice any patented invention without a license.



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