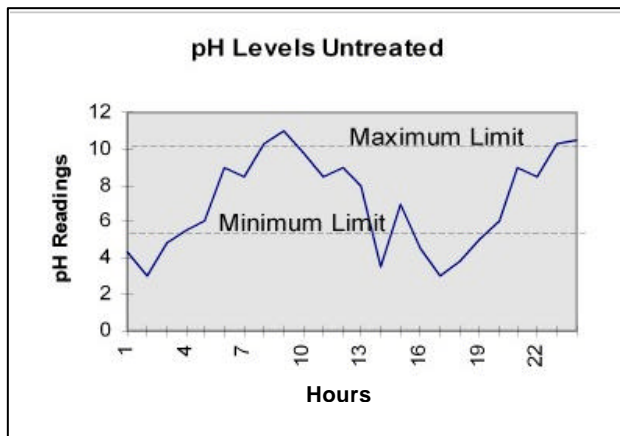


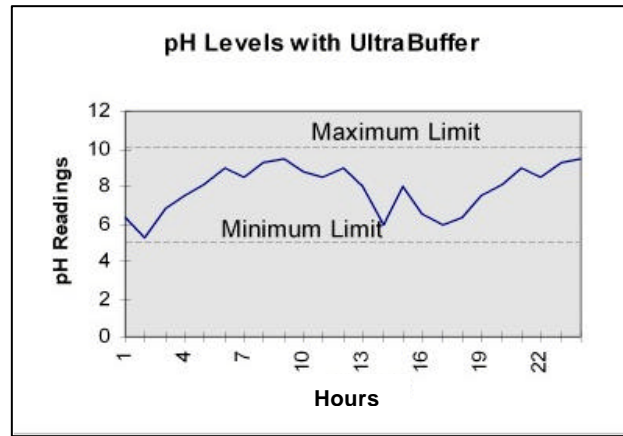


**DESCRIPTION**

UltraBuffer™ is a non-caustic, non-magnesium hydroxide blend of non-hazardous, non-corrosive, biodegradable pH buffer. It is designed to buffer the pH of both acidic and basic wastewater stream to comply with your discharge pH limits. UltraBuffer™ will raise the pH of an acidic wastewater or decrease the pH of a basic wastewater whichever is necessary. This product is particularly helpful in applications where there is no equalization nor neutralization tank, or where the pH can exceed both high and low limits at any time. Unlike harsh acid and caustic, where an even slight overdose can overshoot the final pH, UltraBuffer™ will not overshoot the pH. When severely overdosed, it will bring the final pH to a maximum of 7.4-7.8. Unlike magnesium hydroxide, UltraBuffer™ is very fast acting, requiring practically no retention time, and does not add slurry nor solid particulate to the wastewater.



Before



After

**BENEFITS**

- Non-Hazardous for DOT purposes
- Non-Corrosive to skin, equipment, and sewer pipes
- Biodegradable – environmentally friendly
- Does not overshoot pH when overdosed
- 2-in-1 buffering solution – increases or decreases pH in one solution
- Works without equalization nor neutralization tank – reduces capital cost
- Fast reaction – does not require long retention time

Properties	UltraBuffer™	Caustic	Magnesium Hydroxide
Non-Hazardous	v		v
Non-Corrosive	v		v
Biodegradable	v		v
Fast Acting	v	v	
Completely Soluble – does not contribute solids to discharge water	v	v	
Maximum pH when overdosed	7.4-7.8	12+	10

# Ultra<sup>L</sup>Buffer™

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## APPLICATIONS

UltraBuffer™ can be applied anywhere where caustic and acid are currently being used to neutralize the pH of any wastewater discharge. It can also be used to maintain the pH in biological augmentation.

## DOSAGE

Dosage rate depends on the pH and volume of the untreated wastewater. We suggest that you conduct a bench test to determine a starting dosage rate. Thereafter, the dosage can be adjusted further to meet the minimum or maximum discharge pH level allowed by your local, state, and federal regulations.

## FEEDING

UltraBuffer™ can be fed directly into a neutralization or equalization tank using a chemical pump and pH controller set-up. In the absence of such system, the product should be fed upstream in a high flow or turbulent area, to allow sufficient mixing and distribution.

The product has a higher freezing point than water, so it must be kept away from cold temperature and cold floor. In the event of a freeze, the product can be thawed by adding hot water directly to the product and mixing at high speed. This will dilute the product so the dosage rate must be compensated accordingly.

## MATERIAL SAFETY DATA SHEET

For information concerning typical properties, health hazard, flammability, reactivity, please consult the material safety data sheet.

## PACKAGING

Available in 55, 30, 15, 5 gal drums, bulk shipments, and returnable 200 and 400 gallon tote containers.

### ALSO AVAILABLE IN POWDER FORM

## TECHNICAL ASSISTANCE

Our technical staff is available to assist in the application of our products. You may request assistance through your sales representative or by contacting us at (877) 938-4621.

## REMARKS

The information and statements herein are believed to be reliable, but are not to be construed as warranty or representation for which we assume legal responsibility.

For **Medical and Transportation Emergencies** involving our products call (24-hour response): **(800)535-5053**

Revision Date: June 2004