



# CalOx<sup>®</sup> pH

## MICRONIZED LIQUID LIME

**FOR RAPID pH ADJUSTMENTS IN AGRICULTURE, GREENHOUSE, NURSERY, LANDSCAPE AND TURF APPLICATIONS**

**INGREDIENTS:**

Calcium Carbonate*	72.5%
Inert:	27.5%
<b>Total:</b>	<b>100%</b>

\*Derived from: Calcitic lime  
1 gallon = 15.66 lbs, contains 11.6 lbs of calcitic lime or 4.64lbs of Ca

Minimum Guaranteed Analysis:	As Packaged	Dry Basis:
Calcium Carbonate (CaCO <sub>3</sub> )	72.5%	98%
Magnesium Carbonate (MgCO <sub>3</sub> )	0.74%	1%
Calcium (Ca)	26.9%	40%
Magnesium (Mg)	0.3%	0.4%
Calcium Carbonate Equivalent (CCE)	73.3%	99%
Calcium Oxide Equivalent (CaO)	37.66%	56%
Magnesium Oxide Equivalent (MgO)	0.5%	0.7%
Moisture Content (maximum)	26%	
Effective Neutralizing Value (ENV)	73.3%	0.99
Effective Calcium Carbonate Equivalent (ECCE)	73.3%	0.99

As a Liquid 2,550 lbs (163 gal.) of formulated product is equal to one ton of standard liming material

**Particle Size Information**

Percent of material passing:	
8 mesh screen	100%
10 mesh screen	100%
20 mesh screen	100%
40 mesh screen	100%
50 mesh screen	100%
60 mesh screen	100%
100 mesh screen	100%
200 mesh screen	100%

Information regarding the contents and levels of metals in this product is available on the internet at <http://www.aapfco.org/metals.htm>.

**KEEP FROM FREEZING  
SHAKE WELL BEFORE USING**

**PRECAUTIONARY STATEMENT**

CAUTION—Avoid contact with skin and eyes. Wash hands thoroughly after using. Avoid breathing spray mists and vapors. May cause respiratory irritation, if taken internally, seek medical attention

**GENERAL INFORMATION**

CalOx<sup>®</sup> pH Micronized Liquid Lime's extremely fine particle size allows for rapid, highly efficient soil pH modifications in agricultural, turf, and horticultural applications, and can be applied without tillage or through fertigation systems. CalOx pH is easy to apply through most spray and injection type application equipment.

**Use CalOx pH within 30 days of purchase or agitate container periodically to keep material in solution.**

**Net Contents:**

- 2.5 Gallons (9.46 L) Net Weight: 39.15lbs (17.75 KG)
- 5 Gallons (18.92 L) Net Weight: 78.3lbs (35.51 KG)
- 30 Gallons (113.6 L) Net Weight: 469.8 lbs (213 KG)
- 55 Gallons (208.2 L) Net Weight: 861.3 lbs (390.67 KG)
- 275 Gallons (1040.9 L) Net Weight: 4306.5 lbs (1953.39 KG)

**BioSafe Systems LLC**

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## DIRECTIONS FOR LIMING APPLICATIONS

### General Application Rates

**Disclaimer:** Results will vary depending on soil conditions and pH, the below application rates are meant to serve as general guidelines for applying CalOx® pH. It is up to the user to determine the appropriate amount of product to add based on local conditions.

### Greenhouse and Turf Applications:

Determine current soil pH and desired pH levels for specific plant species. This information can be obtained from a qualified soil testing lab or agricultural extension. Refer to the general application rates below for product use.

### Pre-production Growing Media Preparation:

Growing Media Targeted pH Increase	Target pH Increase		
	0.1	0.5	1.0
	CalOx pH Application Rate		
Per cubic foot of Growing Media	0.1 – 0.3 fl. oz.	1.0 – 1.5 fl. oz.	2.0 – 3.0 fl. oz.

- Mix CalOx pH in sufficient water to achieve good saturation without leaching

### Established Plants and Turf:

Growing Media Targeted pH Increase	Target pH Increase		
	0.1	0.5	1.0
	CalOx pH Application Rate		
Per 1,000 sq. ft. of Growing Media	0.25 – 0.5 gallons	1.25 – 2.5 gallons	3.0 – 5.0 gallons

### Soil Drench Applications for Greenhouse Production:

- Apply using suitable spray or injection equipment
- Apply with sufficient water to achieve saturation without leaching
- For overhead drench applications in production follow up with a freshwater rinse

### For Use on Turf, Including Golf Course Tees, Greens, and Fairways:

- Follow the general rate chart above for Established Plants and Turf to achieve desired soil pH starting in early spring
- Mix CalOx pH in sufficient water to achieve adequate coverage
- Irrigate after application with 1/8-1/4 inch of water
- Repeat applications as necessary to achieve desired pH levels

### For Hydro Seeding Uses:

Following soil test recommendations, mix CalOx pH in sufficient water to meet recommended rates. 174 gal of CalOx pH is equivalent to 2,000 lb of standard calcite liming material. Do not mix CalOx pH greater than 50% by volume in the hydro seeding equipment. CalOx pH is compatible with seed, fertilizer and mulching materials.

### Agricultural Uses:

### Fertigation through Drip Irrigation and Broadcast Applications:

- Apply CalOx pH at planting or at early post emergence through drip irrigation or broadcast.
- Apply in sufficient water to achieve adequate coverage
- Use general application rates chart below for an approximate 0.1 – 0.2 increase in soil pH, based on soil types.

### Field Applications

Soil Type	CalOx pH (Gallons/Acre)
Sandy / Sandy Loam	2.0 - 3.0 gallons
Silt / Silt Loam	4.0 - 5.0 gallons
Clay / Clay Loam	6.0 - 7.0 gallons
Organic (10-25% organic matter)	8.0 - 9.0 gallons

### CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded. BIOSAFE SYSTEMS warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above when used in accordance with directions under normal use conditions. This warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or BIOSAFE SYSTEMS, and Buyer and User assume the risk of any such use. BIOSAFE SYSTEMS MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, NOR ANY OTHER EXPRESSED OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

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For additional information on CalOx® pH, call toll-free at 1.888.273.3088 or visit [www.biosafesystems.com](http://www.biosafesystems.com).

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