

# Limestone F™

## LIQUID FLOWABLE LIMESTONE

For greenhouse, interiorscape, landscape, nursery, and turf applications.

### Ingredients:

Dolomitic Limestone* .....	50%
Inert Ingredients .....	50%
Total .....	100%

### Minimum

#### Guaranteed Analysis

	As Packaged	As Dried
Calcium (Ca)	11.10%	19.30%
Magnesium (Mg)	6.90%	12.00%
Calcium Oxide Equivalent	15.54%	27.02%
Magnesium Oxide Equivalent	11.52%	20.03%
Calcium Carbonate (CaCO <sub>3</sub> )	27.75%	48.24%
Magnesium Carbonate (MgCO <sub>3</sub> )	24.15%	41.99%
Calcium Carbonate Equivalent	56.49%	98.21%
Moisture Content (maximum)	42.48%	

Derived from: Dolomitic Limestone

\*Contains 6 lb per gal dolomitic limestone

F1269

### Particle Size Information

Percent of material passing a 8 mesh screen	100%
Percent of material passing a 20 mesh screen	100%
Percent of material passing a 50 mesh screen	100%
Percent of material passing a 100 mesh screen	100%
Percent of material passing a 200 mesh screen	89%

3186 lb (266 gal) of formulated product  
or 1,833 lb as dried equals one ton of  
standard liming material.

## Keep Out Of Reach Of Children

### CAUTION

#### FIRST AID

- IF IN EYES: Flush eyes with water for at least 15 minutes. If irritation persists, seek medical attention.
- IF ON SKIN: Wash thoroughly.
- IF INGESTED: Give Milk of Magnesia and contact physician or Poison Control Center. Do not give anything by mouth to an unconscious person.

#### PRECAUTIONARY STATEMENTS

##### • HAZARDS TO HUMAN AND DOMESTIC ANIMALS

CAUTION—Avoid contact with skin. Wash hands thoroughly after using. Avoid contact with eyes. In case of contact with eyes, flush eyes for 15 minutes with water and seek medical attention if irritation persists. If taken internally, seek medical attention. Avoid breathing spray mists.

##### • ENVIRONMENTAL HAZARDS

Do not apply directly to water or contaminate water by cleaning of equipment or disposal of waste. Do not contaminate irrigation ditches or water used for domestic purposes. Use coarse sprays to minimize drift. Maintain spray boom pressure as low as possible to minimize drift. Flush spray tank and lines after use.

##### • PHYSICAL OR CHEMICAL HAZARDS

Wear protective clothing when handling or applying this product including long pants and long-sleeve shirt.

##### • STORAGE AND DISPOSAL

**Storage:** DO NOT contaminate water, food or feed by storage or disposal. Store in original containers only in a secure area inaccessible to children and unauthorized persons.

**Chemical Disposal:** Spray solution or tank rinsate that cannot be used according to label instructions, must be disposed of in accordance with all applicable federal, state and local laws.

**Container Disposal:** Do not reuse empty container. Triple rinse (or equivalent) and offer for recycling or reconditioning or dispose in a sanitary landfill, or by other means approved by federal, state or local laws.

Keep From Freezing.  
Shake Well Before Using!



## GENERAL INFORMATION

LIMESTONE F is a flowable micronized dispersion containing 50% wt/wt or 6 lb/gal of limestone. This dust free product is useful for soil pH modification in many fine turf, nursery and horticultural applications. Because of its extremely fine particle size, the desired effect of pH modification begins rapidly. LIMESTONE F is compatible with most commercially available spray and injection type application equipment. LIMESTONE F also has soil nutritional value through the addition of Calcium and Magnesium. Calcium is associated with the development of proteins, assists root development and the movement of carbohydrates within the plant, is needed for cell wall formation, seed production, sugar formation, and regulates the uptake of other plant nutrients.

## DIRECTIONS FOR USE

Determine the present soil pH value. Be sure to provide the qualified soil testing lab with information pertaining to the plant species and environment which you are managing (i.e. fine turf greens or fairways, nursery container crops, greenhouse production, Christmas tree production, etc.). Results from the testing facility are normally reported as the amount of standard limestone required to adjust soil pH values to a desired level based on the information above. Cleary's LIMESTONE F has an extremely fine particle size. This directly affects the application and timing of this product. Refer to the following as a general guideline for product use.

Multiply the amount of liming material recommended per area on the soil test results by a factor of 0.3 to determine the gallons of LIMESTONE F necessary.

### For Greenhouse Crop Applications:

Utilizing a 100:1 ratio for injection, apply 1 gal of Cleary's LIMESTONE F in sufficient water to treat the following surface square footage to the indicated soil media depth:

135 sq ft at a 4 in depth (3 pt solution/sq ft)

200 sq ft at a 2 in depth (2 pt solution/sq ft)

550 sq ft at a 1 in depth (3/4 pt solution/sq ft) retreat in 3-4 weeks.

### On Nursery and Container Crops:

Apply 20-40 gal of LIMESTONE F in sufficient water to uniformly cover one acre. Reapply on 2-3 month intervals or as soil test results indicate.

### For Golf Course Use: Tees, Greens, and Fairways

Apply 1/2 gal LIMESTONE F/1,000 sq ft in sufficient water beginning early spring. Repeat as necessary to achieve desired pH levels. Water with 1/8-1/4 inch irrigation after application.

### For Hydro Seeding Uses:

Following soil test recommendations, mix LIMESTONE F in sufficient water to meet recommended rates. 266 gal of LIMESTONE F is equivalent to 2,000 lb of standard dolomite liming material. Do not mix LIMESTONE F greater than 50% by volume in the hydro seeding equipment. LIMESTONE F is compatible with seed, fertilizer and mulching materials.

## LIMITED WARRANTY AND DISCLAIMER

CLEARY CHEMICAL CORPORATION warrants that this material conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use, subject to the risks referred to therein. CLEARY CHEMICAL CORPORATION makes no other expressed or implied warranty of fitness or merchantability or any other expressed or implied warranty. In no case shall CLEARY or seller be liable for consequential, special or indirect damages resulting from the use or handling of this product including, but not limited to, loss of profits, business reputation, or customers, labor costs, or other expenses incurred in planting or harvesting. CLEARY and seller offer this product and the buyer and user accept it subject to the foregoing conditions of sale and warranty which may be varied only by agreement in writing signed by a duly authorized representative of CLEARY CHEMICAL CORPORATION.

## CHEMIGATION

### Application Through Irrigation Systems

#### GENERAL INFORMATION

1. Apply this product only through solid set or hand move, hand held, or drip (trickle) irrigation systems. Do not apply this product through any other type of irrigation system.
2. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.
3. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.
4. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
5. A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

#### SPECIFIC INFORMATION FOR IRRIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

1. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
2. Chemigation systems connected to public water systems must contain a functional, reduced pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
3. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
4. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
5. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.



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Effective: 10/97  
Replaces: 11/93  
WAC490210M