



Growers Choice Plant Guard HOCL Regulatory Compliance Document For Use in Plant and Irrigation System Treatment

1. Product Overview

- **Product Name:** Growers Choice Plant Guard HOCL
- **Active Ingredient:** Hypochlorous Acid (HOCL)
- **Form:** Concentrate
- **Typical Concentration:** 500 PPM FAC
- **Manufacturer:** Danolyte Global LLC.
- **Contact:** 9216 Bond Street Overland Park, KS 66214 (913) 492-7600

2. Product Description

Growers Choice Plant Guard HOCL is a powerful, safe, and sustainable Hypochlorous Acid (HOCL) solution formulated for use in plant and irrigation system treatment. It is a non-toxic, biodegradable antimicrobial agent that is highly effective against a broad spectrum of plant pathogens including bacteria, fungi, molds, and viruses.

3. Intended Uses

A. Plant Treatment

1. PREVENTATIVE APPLICATION

Dilution Rate: 2 oz per gallon (64:1)

Application Method:

- a) Mix 2 oz (¼ cup) Plant Guard per gallon of water to create an 8 ppm FAC solution
- b) Spray thoroughly on all plant surfaces
- c) Allow to air dry naturally
- d) Apply twice weekly as a preventative measure

Benefits: Proactive protection against powdery mildew, downy mildew, botrytis, and other common crop pathogens

2. TREATMENT APPLICATION

Dilution Rate: 10 oz per gallon (8:1)

Application Method:

- a) Mix 10 oz (1¼ cups) Plant Guard per gallon of water to create a 40 ppm FAC solution
- b) Thoroughly wet all affected plant parts
- c) Allow to air dry naturally
- d) Apply once daily until infection is eliminated, plus several additional days to ensure complete control
- e) For severe infections, may apply twice daily with minimum 8-hour intervals
- f) Return to preventative application once infection is eliminated

Benefits: Quick, effective elimination of active pathogen infections without harming plants or beneficial microorganisms

B. Irrigation System Treatment

Dilution Rate: 1 oz per gallon (128:1)

For Pathogen and Biofilm Prevention:

- a) Use dosing equipment to introduce Plant Guard into primary water supply lines
- b) Maintain concentration at or below 4 ppm FAC (Free Available Chlorine) in irrigation lines
- c) For water storage tanks, add 1 oz Plant Guard per gallon of water
- d) Continue normal irrigation practices while maintaining protection

Benefits: Prevents biofilm formation, keeps irrigation lines clear, ensures clean water delivery to crops

4. HOCL Regulatory Status

- **EPA (U.S.):** HOCL is recognized by the EPA as an antimicrobial active ingredient (CAS No. 7790-92-3).

HOCL USDA National Organic Program

- ▶ Organic Crop Production
 - Regulation: 7 CFR §205.601
 - Use: Allowed as disinfectant/sanitizer
[View Regulation](#)
- ▶ Organic Food Handling
 - Regulation: 7 CFR §205.605
 - Use: Permitted as an ingredient sanitizer
[View Regulation](#)

It complies with multiple federal regulatory HOCL standards for use as an antimicrobial and disinfectant, including:

- Food-contact surfaces
- Organic crop production
- Direct crop/food contact applications
- Compliant with FDA regulations

5. Safety and Handling

- **Toxicity:** Non-toxic to humans and animals when used as directed
- **Eye & Skin Contact:** Minimal irritation in diluted form; PPE recommended during application
- **Storage:** Store in a cool, shaded environment. Avoid direct sunlight.
- **Shelf Life:** Up to 12 months under proper storage conditions
- **Disposal:** Can be disposed of via normal drainage systems; environmentally safe

6. Environmental Considerations

- Breaks down into potassium chloride and water
- Non-persistent and environmentally friendly
- Reduces reliance on synthetic fungicides and disinfectants

For technical support or ordering information, contact us at: Email: info@growerschoiceplantguard.com Website: www.growerschoiceplantguard.com