



GROWERS CHOICE PLANT GUARD HOCL PROPRIETARY FORMULATION FOR ORGANIC AGRICULTURE

CERTIFIED FOR ORGANIC CROP PRODUCTION

Plant Guard HOCL meets all requirements under 7 CFR 205.601 for synthetic substances permitted as algaecides, disinfectants, and sanitizers in organic crop production, including irrigation system cleaning. Our proprietary Plant Guard HOCL formulation provides powerful pathogen control while remaining environmentally responsible and safe for all growth stages.

WHY CHOOSE PLANT GUARD HOCL?

- **100% Organic Compliant** - Meets USDA National Organic Program standards
 - **Non-Toxic Formula** - Safe for plants, people, and the environment
 - **Powerful Pathogen Control** - Effectively eliminates bacteria, fungi, viruses, and spores
 - **Zero Harmful Residue** - Breaks down naturally into potassium chloride and water
 - **Versatile Application** - Works for irrigation systems, foliar sprays, and surface disinfection
 - **pH Balanced** - Optimized for maximum effectiveness and plant safety
 - **No Rinse Required** - Saves time and water during application
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UNDERSTANDING PLANT GUARD HOCL TECHNOLOGY

Plant Guard proprietary HOCL formulation and technology:

- Is 80-100 times more effective than bleach (sodium hypochlorite)
 - Works by oxidizing pathogens' cell walls, destroying them on contact
 - Maintains efficacy without harmful chemical residues
 - Breaks down naturally, leaving no environmental impact
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PLANT GUARD APPLICATION GUIDELINES

WATER TREATMENT & IRRIGATION SYSTEMS

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

For Pathogen and Biofilm Prevention:

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

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

PLANT GUARD AGRICULTURAL CROP TREATMENT

PREVENTATIVE APPLICATION

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

Application Method:

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

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

PLANT GUARD TREATMENT APPLICATION

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

Application Method:

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

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

IMPORTANT: Do not spray Plant Guard on seedlings or plants in pre-vegetative stages as it provides no added benefit during these early growth phases.

TOOLS, EQUIPMENT & SURFACE DISINFECTION

Dilution Rate: 32 oz per gallon (4:1)

Application Method:

1. Mix 32 oz (1 quart) Plant Guard per gallon of water
2. Apply to tools, equipment, work surfaces, grow rooms, and common areas
3. Allow to air dry - no rinsing required
4. Apply daily to maintain a clean growing environment

Benefits: Eliminates cross-contamination risks, creates a hygienic growing environment, extends equipment life

PLANT GUARD QUICK REFERENCE DILUTION TABLE

Application	Plant Guard	Water	Ratio
Water/Biofilm Treatment	1 oz	1 gallon	128:1
Foliar Prevention	2 oz (¼ cup)	1 gallon	64:1
Foliar Treatment	10 oz (1¼ cups)	1 gallon	8:1
Tools/Equipment/Surfaces	32 oz (1 quart)	1 gallon	4:1

BEST PRACTICES FOR MAXIMUM RESULTS

- **Maintain Cleanliness:** Apply daily to high-touch surfaces in grow areas
- **Preventative Schedule:** Follow recommended twice-weekly application for prevention
- **Complete Coverage:** Ensure thorough coverage of all plant surfaces when spraying
- **Proper Storage:** Store Plant Guard in a cool, dark place in its original container
- **Systemic Approach:** Combine water treatment, foliar application, and surface disinfection for best results

SAFETY & ENVIRONMENTAL INFORMATION

- Plant Guard is non-toxic and safe when used as directed
- No special handling equipment required
- No harmful fumes or off-gassing
- Safe for groundwater and soil organisms
- Approved for organic production systems

GROWERS CHOICE PLANT GUARD COMMITMENT

At Growers Choice Plant Guard, we're dedicated to providing organic growers with effective, sustainable solutions. Our Plant Guard HOCL formulation represents the pinnacle of product technology for agriculture, developed specifically to enhance crop health while maintaining organic certification.

For technical support or ordering information, contact us at:

Email: info@growerschoiceplantguard.com

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