



**BioWorks®**

DIVISION OF BIOFIRST GROUP



ABOVE AND BEYOND IS WHERE WE BEGIN

## TECHNICAL BULLETIN: CEASE®

### USE IN LOW VOLUME APPLICATORS

CEASE biofungicide effectively controls a wide range of fungal and bacterial diseases. Its patented bacterium *Bacillus subtilis* strain QST 713 and natural antifungal and antibacterial compounds use multiple modes of action to destroy pathogens.

As a foliar spray or soil drench, use CEASE alone, in rotation, or tank mix with other crop protection products, to provide an excellent tool for resistance management. CEASE is approved for use in organic production, with outstanding plant, human and environmental safety.

When rotated regularly with our MilStop® SP Foliar Fungicide, CEASE can help provide season-long suppression of *Botrytis*, Powdery Mildew, and bacterial leaf spots.



#### KEY FEATURES:

- + Controls disease using multi-site modes of action for effective resistance management
- + Shortest REI among fungicides (4 hrs. vs. up to 48 hrs.)
- + Can be sprayed up to and on the day of harvest
- + Improves resistance to diseases by increasing plant's natural defenses
- + Performance equal to copper-based products, without the associated risks of phytotoxicity and resistance
- + Leaves virtually no residue on plants or flowers
- + Safe for beneficial insects and predatory mites
- + Compatible with many chemical and biological inputs and tank mixing/rotating

#### WHEN USING ULTRA LOW VOLUME APPLICATORS (FOGGERS),

#### OBSERVE THE FOLLOWING:

- + Low volume sprayers have a high degree of efficiency in coverage of leaf and stem surfaces. Thoroughly cover the plant surfaces but note that spray deposition may not be visible after application
- + When using a low volume sprayer, first determine the proper application volume by spraying the material in a small area. Test the application on a few plants to assure proper coverage
- + Follow equipment manufacturer instructions carefully
- + Properly calibrate equipment regularly
- + Ensure that nozzles are clean and not worn so that correct droplet size is applied. Smaller droplets are more desirable in a fogging situation
- + Ensure that all the material is well mixed so application will be uniform throughout
- + Use the maximum amount of water that a given machine allows to help ensure material is completely mixed with water



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### WHEN USING ULTRA LOW VOLUME APPLICATORS (FOGGERS), OBSERVE THE FOLLOWING: (CONTINUED)

- + Consider using a carrier solution appropriate to the type of fogger equipment. This will improve atomization and cause fewer large droplets to fall out in front of the fogger providing more uniform coverage. For Dramm BIO PulsFOG® equipment it is suggested to use NutriFog™ as a carrier for CEASE
- + With most LVM equipment, keep nozzle output from directly contacting the plants. Nozzles should not be aimed directly at crop
- + Unlike hydraulic or low volume mist spraying, there should be no visible evidence (leaf wetness) of the application on the plant foliage

#### CEASE LOW VOLUME APPLICATOR RATES: COLDFOGGER™, AUTO-FOG™, TRACFOG™, BIO PULSFOG®

HYDRAULIC RATE/ 100 GAL <sup>1</sup>	RATE/10,000 SQ FT (DRAMM LOW 20%) <sup>2</sup>	RATE/10,000 SQ FT (DRAMM LOW 35%) <sup>2</sup>	MINIMUM AMT. OF SOLUTION <sup>3</sup> AUTO-FOG, TRACFOG, BIO PULSFOG	MINIMUM AMT. OF SOLUTION COLDFOGGER
2	12.8 fl oz	22.4 fl oz	2 liters	10 liters
3	19.2 fl oz	33.6 fl oz	3 liters	10 liters
4	25.6 fl oz	44.8 fl oz	3.5 liters	10 liters
5	32 fl oz	56 fl oz	4.5 liters	10 liters
6	38.4 fl oz	67.2 fl oz	5 liters	10 liters
7	44.8 fl oz	78.4 fl oz	6 liters	10 liters
8	51.2 fl oz	89.6 fl oz	7 liters	10 liters

<sup>1</sup> Hydraulic sprayer rate per acre

<sup>2</sup> More solution may be used. Solution includes carrier + water

<sup>3</sup> More solution may be used. Solution includes carrier + water. The Dramm owner's manual states that you should never use less than 0.5 gallons of water in their foggers no matter how small an area is being fogged to ensure optimum performance of their machines. We do not recommend going below the amounts stated above. Please refer to Dramm User's Manuals for complete equipment operating instructions.

#### NOTES:

Pre-mix the solution well in a separate to ensure full suspension of CEASE before adding to tank. Pour into partially filled tank with agitator running.

Refer to product labels for complete application details. Additional technical information is available at [bioworksinc.com](http://bioworksinc.com) or from your BioWorks technical sales representative. BotryStop® WP is a trademark of BioWorks, Inc. Always read and follow label directions.



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