

# Cyclone

Fungicide

## TECHNICAL SHEET

Tomato

### Bactericide for Bacterial Canker



#### FEATURES AND BENEFITS

- ✓ **Minimal REI**, re-entry when spray is dry
- ✓ **Safe** for use with beneficial and pollinators\*
- ✓ **Minimum risk** of resistance due to the multiple modes of action
- ✓ **Perfect integration** in your IPM program
- ✓ **Approved** for organic agriculture

#### USE PATTERN

\* Safe for use with beneficial organisms and pollinators when used according to label instructions.

CROP	DISEASE	RATE	FOLIAR SPRAY VOLUME	APPLICATION TIMING
Greenhouse Tomatoes	Bacterial canker ( <i>Clavibacter michiganensis</i> )	2.4% dilution in water solution	Use the minimum spray volume to obtain full coverage of both side of leaves	5 - 10 days Apply preventatively (Nursery: seedling emergence, before grafting, after grafting, before transplant shipping; Grower: at reception of transplants; 7 days after transplants reception) or at first sign of disease to contain the progression of the disease.

#### TECHNICAL SPECIFICATIONS

- **Active ingredients:** Citric acid and lactic acid (present as fermentation products of *Lactobacillus casei* strain LPT-111)
- **Packaging:** One (1) case = 2 x 10L
- **Formulation Type:** liquid concentrate
- **Chemical Group:** N/A biopesticide
- **PHI:** 0 day

#### MODE OF ACTION

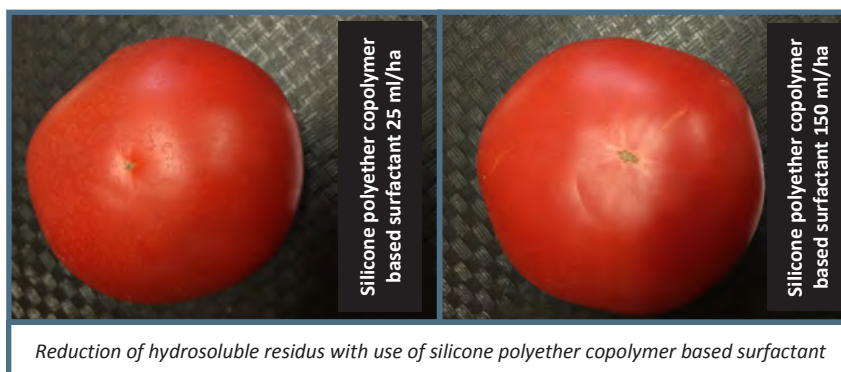
Cyclone have direct bactericide activity and also reduced bacterial growth and the appearance of various symptoms associated with bacterial canker of the tomato, such as : discoloration on the leaf margins and leaf and petiole necrosis.

## RECOMMENDATIONS FOR OPTIMAL RESULT

- Use conejet nozzle and high pressure (minimum of 120 PSI)
- Cyclone can leave a water-soluble white deposit on fruit
- Use of silicone polyether copolymer based surfactant at 150 ml/ha reduce the presence of hydrosoluble residus

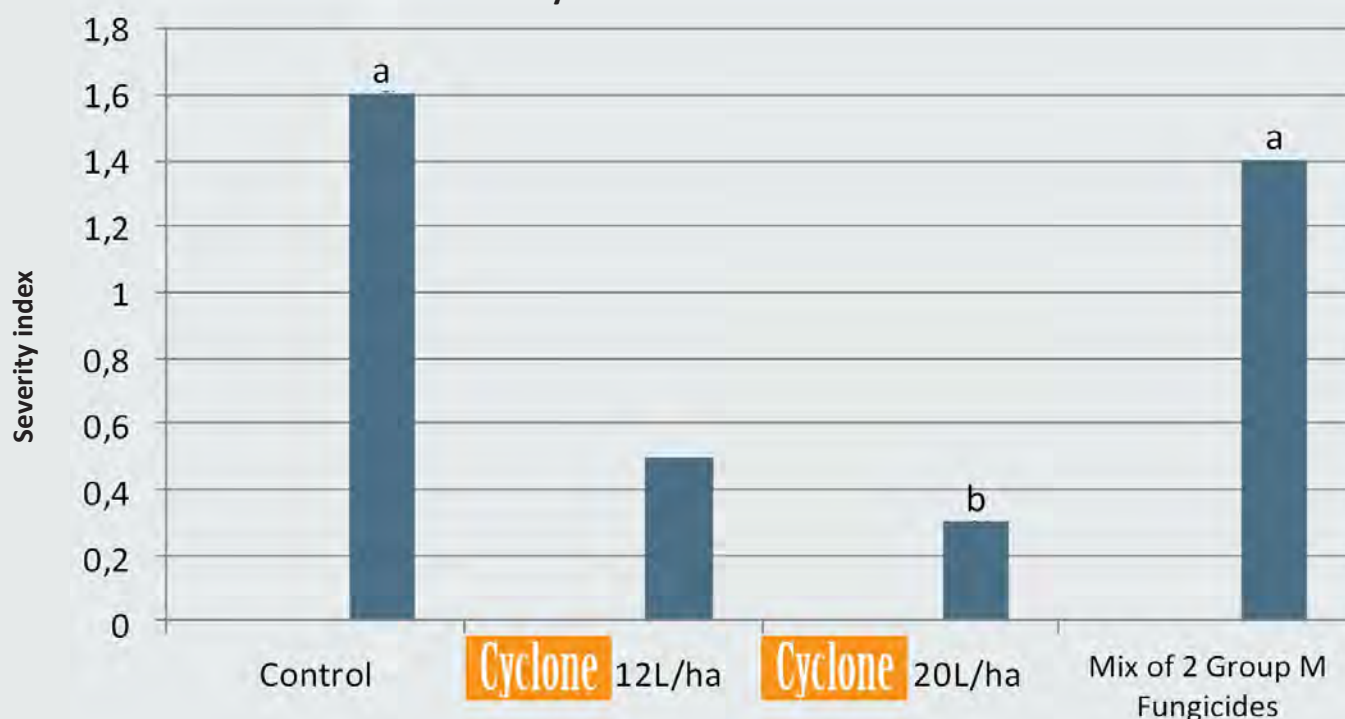
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## RÉSULTS

### Effect of Cyclone on tomato bacterial canker



Effect of Cyclone on bacterial canker induced margin discoloration on field tomatoes. Ranked from 0 to 5 where 0 = no yellow margins, 1 = 1 to 2 small yellow margin areas ... and 5 = yellow margins on more than 40% of the leaf surface. Cultivar: Mariana. Trial conducted in Montérégie, 2008.

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Means not followed by a common letter are significantly different (P=0.05) as determined by Tukey test.

Cyclone is registered in Canada by AEF Global. Please refer to product label for complete application details. Always read and follow label directions. Log on to [www.aefglobal.com](http://www.aefglobal.com) for full label information.