

## Comparison of Greenhouse Sanitizers/Disinfectants

**Note:** This information is not a substitute for pesticide labeling. Always read the product label before applying any pesticide. Always check NYS registration status and use sanitizers/disinfectants in accordance with the label! The purpose of this table is for the Cornell Greenhouse Community and was meant as a resource for comparison of label and cost information.

Product	Green Shield <sup>R</sup>	Physan 20	Clorox Germicidal Bleach <sup>R</sup>	Triathlon <sup>R</sup>	Oxidate <sup>R</sup>	ZeroTol <sup>ZT</sup>
<b>Active Ingredient</b>	-Dimethyl benzyl ammonium chloride -Dimethyl ethylbenzyl ammonium chloride	-Dimethyl benzyl ammonium chloride -Dimethyl ethylbenzyl ammonium chloride	Sodium Hypochlorite	-Dimethyl benzyl ammonium chlorides -Dimethyl ethylbenzyl ammonium chlorides	Hydrogen Dioxide	Hydrogen Dioxide, Peroxyacetic Acid
<b>Percent</b>	10	10	5.25	20	27	27
<b>EPA #</b>	499-368	55364-5	67619-01	58044-3-59807	70299-2	70299-1
<b>Use</b>	Disinfectant Algaecide	Disinfectant Sanitizer	Disinfectant Sanitizer	Disinfectant	Bactericide/ Fungicide	Algaecide/ Fungicide
<b>Class</b>	Algaecide-greenhouse glass, walkways	Bactericide, fungicide, viricide, algaecide	Bactericide, fungicide, viricide, mildewicide	Algaecide, fungicide, bactericide	Broad spectrum Bactericide/fungicide	Contact horticultural decontaminate, broad spectrum algaecide/fungicide
<b>Target Site</b>	Work areas, benches, pots, flats, cutting tools	Work areas, benches, pots, flats, cutting tools	Disinfectant-floors, walls Sanitizing-work surfaces, utensils	Benches, walkways	Benches, pots, flats, cutting tools, trays, structures, equipment	Work areas, benches, pots, flats, trays, greenhouse surfaces, tools
<b>Price/Gal. of Product</b>	\$32.83 <sup>1</sup>	\$30.90 <sup>2</sup>	\$1.83 <sup>3</sup>	\$40.20 <sup>5</sup>	\$48.05 <sup>4</sup>	\$45.45 <sup>1</sup>
<b>Price/Gal. at Label Rate</b>	\$0.13	\$0.12	\$0.01	\$0.16	\$0.19	\$0.18
<b>REI</b>	Not on label	12 hrs.	0 hrs.	0 hrs.	0 hrs., 1hr. with fogging or spraying	0 hrs.

**Disposal of Sanitizers / Disinfectants:** Only mix amount to be used. Discard according to label directions. For answers to additional disposal questions, contact a greenhouse manager and/or the office of Occupational and Environmental Health (OEH), College of Agriculture and Life Sciences (CALs). (607) 255-0485, pesticides@cornell.edu.

**Key to Price/Gal of Product**

<sup>1</sup>Average price from: W.H. Milikowski, Inc. 2005-06, Griffen 2006, Hummert International 2005

<sup>2</sup>Only found in Hummert International 2005

<sup>3</sup>Vasco Brands Inc. (607) 733-5566

<sup>4</sup>Average of two found in Griffen 2006 & Hummert International 2005

<sup>5</sup>Average of two found in W.H Milikowski, Inc. 2005-06 & Griffen 2006

**Price/Gal. at Label Use Rate:** Rate calculated for most target areas. Check label rate for specific target site.