

<Container Label>

**BIOSAFE SYSTEMS, LLC**

**OxiDate®**

SOLUTION

Broad-Spectrum Bactericide/Fungicide and Hard Surface Sanitizer

COMMERCIAL

A solution for the suppression or partial suppression of diseases on labeled crops grown in greenhouse, field and hydroponic systems, as well as a sanitizer for greenhouse surfaces and equipment.

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING  
KEEP OUT OF REACH OF CHILDREN

REGISTRATION NO.: 33469 PEST CONTROL PRODUCTS ACT

ACTIVE INGREDIENTS: Hydrogen Peroxide 27 %  
Peroxyacetic acid 2.5 %



WARNING – POISON

DANGER- CORROSIVE TO EYES  
DANGER-SKIN IRRITANT

NET CONTENTS: 1 Litres – 1050 Litres

BioSafe Systems, LLC  
22 Meadow Street  
East Hartford (CT) 06108  
USA  
Tel.: (888) 273-3088

## **PRECAUTIONS:**

CORROSIVE to the eye. Severely irritating to the skin. Causes mucous membrane irritation. Avoid contact with skin, eyes and clothing. Wash immediately after contact and use. The product may be harmful if swallowed and be fatal if inhaled. Refer to attached booklet for more precautions, PPE and Environmental Precautions.

## **FIRST AID:**

**If swallowed:** Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

**If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

Take container, label, or product name and Pest Control Product Registration Number with you when seeking medical attention.

## **TOXICOLOGICAL INFORMATION:**

Probable mucosal damage may contraindicate the use of gastric lavage. No specific antidote is available. Treat symptomatically.

## **DISPOSAL:**

DO NOT reuse this container for any purpose. This is a recyclable container and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial or territorial requirements.

For information on disposal of unused, unwanted product, contact the registrant or the provincial or territorial regulatory agency. Contact the registrant and the provincial or territorial regulatory agency in case of a spill and for clean-up of spills.

**NOTICE TO USER**

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

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**CAUTION:**

Do not use this product in a manner inconsistent with its labelling. Do not apply this product in a way that will contact workers or other persons, either directly or indirectly through drift. OxiDate works by surface contact with the plants being treated. It is important to ensure that all plant surfaces are thoroughly wetted.

**PRECAUTIONS:**

CORROSIVE to the eye. Severely irritating to the skin. Causes mucous membrane irritations. Avoid contact with skin, eyes and clothing. Wash immediately after contact and use. The product may be harmful if swallowed and be fatal if inhaled. Wear coveralls, a long-sleeved shirt, long pants, chemical-resistant gloves, protective eyewear (goggles or face shield), chemical-resistant footwear and a respirator with NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides or a NIOSH-approved canister approved for pesticides during mixing, loading, clean-up and repair activities. During application, wear coveralls, a long-sleeved shirt, long pants, chemical-resistant gloves, protective eyewear (goggles or face shield), chemical-resistant footwear and a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested.

For airblast applications, wear chemical-resistant coveralls, a long-sleeved shirt, long pants, chemical-resistant gloves, protective eyewear (goggles or face shield), headgear, chemical-resistant boots, and a respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides or a NIOSH-approved canister approved for pesticides during mixing, loading, open-cab application, clean-up and repair. Chemical-resistant headgear includes chemical-resistant Sou'wester hat, chemical-resistant rain hat, or large-brimmed waterproof hat and hood with sufficient neck protection.

OxiDate is a strong oxidizing agent and has been demonstrated to be corrosive to metal surfaces. Rinse all application equipment thoroughly with water after use. Metal fasteners and surfaces that come into contact with diluted OxiDate, as a result of the daily applications, may also become corroded. Ship and store away from food, fertilizer, feed and seed.

***For foliar applications in the greenhouse, in enclosed structures, in the field and in hydroponic systems:***

Keep unprotected persons out of the area for the duration of the application.

Do not enter or allow worker entry into treated areas for 4 hours or until sprays have dried.

For early entry to a treated area before sprays have dried, applicators/workers must wear coveralls, a long-sleeved shirt, long pants, chemical-resistant gloves, protective eyewear (goggles or face shield), chemical resistant footwear and a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested.

Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration

wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

***For greenhouse and enclosed structures mist/fog applications:***

Keep unprotected persons out of the treatment area of the greenhouse for the duration of the application period.

Allow entry or re-entry to greenhouse only after thorough ventilation and the mists /fog have cleared.

Do not enter or allow worker entry into treated areas for 4 hours or until the sprays have dried.

When entering a treated area of the greenhouse before thorough ventilation and the sprays have dried; applicators/workers must wear coveralls, a long-sleeved shirt, long pants, chemical-resistant gloves, protective eyewear (goggles or face shield), chemical-resistant footwear, and a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested.

Pre-harvest Interval (PHI) of 0 days.

**ENVIRONMENTAL PRECAUTIONS:**

TOXIC to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE.

Toxic to bees. Minimize spray drift to reduce harmful effects on bees in habitats close to the application site. Avoid application during the crop blooming period. If applications must be made during the crop blooming period, restrict applications to the evening when most bees are not foraging. Avoid applications when bees are foraging in the treatment area in ground cover containing blooming weeds. To further minimize exposure to pollinators, refer to the complete guidance “Protecting Pollinators during Pesticide Spraying – Best Management Practices” on the Health Canada website ([www.canada.ca/pollinators](http://www.canada.ca/pollinators)).

Toxic to certain beneficial arthropods (which may include predatory and parasitic insects, spiders, and mites). Minimize spray drift to reduce harmful effects on beneficial arthropods in habitats next to the application site such as hedgerows and woodland. Care should be taken when using this product in an integrated pest management program when users are relying on the presence of beneficial arthropods.

Greenhouse use: Toxic to bees and other beneficial arthropods (which may include predatory and parasitic insects, spiders, and mites). May harm bees and other beneficial arthropods, including those used in greenhouse production. Avoid application when bees or other beneficial arthropods are in the treatment area.

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with moderate to steep slope, compacted soil or clay. Avoid application when heavy rain is forecast.

Contamination of aquatic areas as result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body. Additional guidance can be found on the Runoff Mitigation portion of the Canada.ca website.

DO NOT allow release, effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds, or other waters.

#### **FIRST AID:**

**If swallowed:** Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

**If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

#### **TOXICOLOGICAL INFORMATION:**

This product is corrosive and severely irritating to the eyes, skin and mucous membranes. Probable mucosal damage may contraindicate the use of gastric lavage. No specific antidote is available. Treat symptomatically.

#### **TANK MIXING**

This product may be tank mixed with a fertilizer, a supplement, or with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact BioSafe Systems, LLC at 1-888-273-3088 for information before applying any tank mix that is not specifically recommended on this label.

#### **COMPATIBILITY**

OxiDate has not been tested with all potential tank-mix partner products. Conduct a jar test before mixing OxiDate with a fertilizer, a supplement, or with registered pest control products to determine compatibility before use. Mix each component in the correct proportions, and shake or stir vigorously. If any adverse reactions occur in the jar, products should be considered incompatible. OxiDate may have a deleterious effect on biological based pesticides, especially those biopesticides containing living organisms. Be sure to consult all biopesticide product labels to ensure compatibility before tank mixing these products with OxiDate.

**PLANT SENSITIVITY TESTING:**

Use OxiDate at labelled dilution rates. This product has been tested for phytotoxicity and is safe to use on a variety of crops; however, it is not possible to test all crop varieties grown under all growing conditions or all growth stages with this product to ensure no phytotoxic effects to the target crop throughout its life cycle. Plants grown in greenhouses vary greatly from those grown under field conditions, as such should be tested for phytotoxicity separate from field grown crops. Periods of intense plant stress may increase phytotoxic sensitivity to pesticide applications. It is recommended to determine if OxiDate can be used safely and non-injurious to target crop under your use conditions prior to application by conducting a phytotoxicity test.

Read the entire label before using this product. Use only according to label directions. Do not use OxiDate above labeled rates. Contact BioSafe Systems with any questions or concerns regarding product applications on your crop.

**SOLUTION PREPARATION:**

OxiDate works best when diluted with clean water containing little or no organic or inorganic materials and having a neutral pH. Thoroughly rinse out mixing tank with water before mixing concentrate. The spray solution should be prepared just before application and used as soon as possible. Do not reuse already mixed solution, make fresh daily.

**DIRECTIONS FOR USE**

OxiDate is used for the suppression or partial suppression of multiple diseases in the labeled crops in the greenhouse, field and hydroponic growing systems.

This product works immediately on contact with any plant surface for suppression or partial suppression of plant diseases – see Foliar Application Instructions chart. Good coverage and wetting of the foliage are required. For increased coverage and penetration of spray, use a compatible non-ionic wetting agent/surfactant at 0.10%–0.125% v/v (0.1 L–0.125 L per 100 L of spray solution).

For best suppression or partial suppression of targeted plant diseases, apply OxiDate prior to or in early stages of disease development.

Make a fresh working solution immediately before application. Do not use leftover solution for next application.

OxiDate works by surface contact with the plants being treated. It is important to ensure that all plant surfaces are thoroughly wetted, including upper and lower foliage, stems, branches, and stalks to ensure full contact with plant and flower tissue. Spray plants to the point of run-off to achieve full and even coverage of all plant parts above ground.

The working solution volume used per hectare varies with plant size, plant growth stage, density, weather conditions and other factors. Calibrate the spray solution volume per hectare with the spray equipment being used before application to ensure sufficient active ingredient in the solution.

Do not spray OxiDate during conditions of intense heat, drought or poor plant vigor. Avoid application before rain in outdoor uses. Ideal application time is early morning or late afternoon when temperature is lower.

As this product is not registered for the control of pests in aquatic systems, **DO NOT** use to control aquatic pests.

**DO NOT** allow effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters.

Do not contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.

Field sprayer application: **DO NOT** apply when wind speed is less than 1 km/h. Avoid application of this product when winds are gusty. **DO NOT** apply with spray finer than the American Society of Agricultural and Biological Engineers (ASABE) S572 (S572.1 to 572.3) medium classification. Boom height must be 60 cm or less above the crop or ground.

Airblast application: **DO NOT** apply when wind speed is less than 1 km/h. Avoid application of this product when winds are gusty. **DO NOT** direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows. **DO NOT** apply when wind speed is greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side.

**DO NOT** apply by air.

#### **Spray buffer zones:**

A spray buffer zone is **NOT** required for:

- Uses with hand-held application equipment permitted on this label
- Low-clearance hooded or shielded sprayers that prevent spray contact with crop, fruit or foliage

The spray buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of application	Crop		Spray Buffer Zones (metres) Required for the Protection of:				
			Freshwater Habitat of Depths:		Estuarine/Marine Habitat of Depths:		Terrestrial Habitat:
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer	Grape, lowbush blueberry, strawberry, tomato, head lettuce and leaf lettuce, celery, watermelon, cucumber, Asian water spinach, caneberries, field and greenhouse transplant <i>Brassica</i> leafy greens and <i>Brassica</i> head and stem vegetables, field red (garden) beets, Cannabis and industrial hemp (grown only for cannabinoid extraction), Crop Group 8-09 Fruiting Vegetables and Crop Group 25 Herbs		1	1	1	1	1
	Potato, Pumpkin, zucchini, Hops		2	1	1	1	1
Airblast	Apple, pear, grape, highbush blueberry, sweet cherry, caneberries	Early growth stage	20	10	4	1	1
		Late growth stage	10	4	2	1	1

When tank mixes are permitted, consult the labels of the tank-mix partners and observe the largest (most restrictive) spray buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASABE) category indicated on the labels for those tank mix partners.

The spray buffer zones for this product for conventional application equipment can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Drift Mitigation portion of the Canada.ca website.

Do not apply more than 93.5 L of OxiDate per hectare per application.

### **FIELD, GREENHOUSE AND HYDROPONIC APPLICATIONS**

When applied as directed, OxiDate will suppress the diseases listed below unless indicated otherwise. This product may be used in field, greenhouse and hydroponic systems unless indicated otherwise by specific crop instructions.

#### **Foliar Application Instructions**

##### **Application Timing:**

Start foliar/branch/stem applications before the disease occurs or at the first sign of disease and/or when weather conditions are favorable for disease development. Apply diluted spray to the point of run-off to achieve full and even coverage.

Maximum number of applications per year is 8.

Apply at 7-day spray intervals, depending upon the level of disease pressure. Under severe disease conditions, reduce spray intervals to once every 5 days, and use stronger dilution rates if a rate range is indicated for the crop.

Pre-Harvest Interval = 0 days

<b><u>Crop</u> Indoor and Outdoor Grown</b>	<b>Diseases</b>	<b>Control Level</b>	<b>Application Rate</b>
Blueberry	Mummy berry ( <i>Monilinia vacinii-corymbosi</i> )	Partial suppression	Dilute 1.0 L product in 100 L of water, i.e. 1.0% (v:v)
	Phomopsis twig blight ( <i>Phomopsis vaccinii</i> )	Partial suppression	
Grape	Black rot ( <i>Guignardia bidwellii</i> )	Partial suppression	Dilute 1.0 L product in 100 L of water, i.e. 1.0% (v:v)
	Downy mildew ( <i>Plasmopara viticola</i> )	Suppression	
	Cane and leaf spot and fruit rot ( <i>Phomopsis viticola</i> )	Suppression	
	Powdery mildew ( <i>Erysiphe necator</i> )	Partial suppression	

	Botrytis bunch rot ( <i>Botrytis cinerea</i> )	Partial suppression	
	Sour rot ( <i>Saccharomyces</i> spp., <i>Acetobacter</i> spp.)	Partial suppression	
Strawberry (field and greenhouse)	Botrytis fruit rot ( <i>Botrytis cinerea</i> )	Suppression	Dilute 1.0 L product in 100 L of water, i.e. 1.0% (v:v)
	Angular leaf spot ( <i>Xanthomonas fragariae</i> )	Suppression	
Red (Garden) Beet (field)	cercospora leaf spot ( <i>Cercospora beticola</i> )	Partial suppression	Dilute 1.0 L product in 100 L of water, i.e. 1.0% (v:v)
Apple Pear	Fire blight ( <i>Erwinia amylovora</i> )	Partial suppression	Dilute 1.0 L product in 100 L of water, i.e. 1.0% (v:v)
Apple	Scab ( <i>Venturia inaequalis</i> )	Partial suppression	Dilute 1.0 L product in 100 L of water, i.e. 1.0% (v:v)
	Powdery mildew ( <i>Podosphaera leucotricha</i> )	Suppression	
	Black rot ( <i>Botryosphaeria obtusa</i> )	Partial suppression	
	Sooty blotch (disease complex caused by <i>Peltaster fructicola</i> , <i>Geastrumia polystigmatis</i> , and <i>Pseudocercospora</i> spp.)	Suppression	
	Fly speck ( <i>Zygothiala jamaicensis</i> )	Suppression	
Sweet cherry	Reduction of slip-skin maceration disorder (associated yeast species: <i>Aureobasidium pullulans</i> , <i>Candida railenensis</i> , <i>Cryptococcus victoriae</i> and <i>Hanseniaspora uvarum</i> )	Reduction	Dilute 1.0 L product in 100 L of water, i.e. 1.0% (v:v)
Watermelon	Gummy stem blight ( <i>Didymella bryoniae</i> )	Partial suppression	Dilute 1.0 L product in 100 L of water, i.e. 1.0% (v:v)
CROP SUBGROUP 13-07A (Caneberries)* (field)	Fire blight ( <i>Erwinia amylovora</i> )	Partial suppression	Dilute 1.0 L product in 100 L of water, i.e. 1.0% (v:v)
	Botrytis grey mould ( <i>Botrytis cinerea</i> )	Suppression	
Tomato	Leaf mould ( <i>Passalora fulva</i> syn. <i>Cladosporium fulvum</i> ),	Partial suppression	Dilute 1.0 L product in 100 L of water, i.e. 1.0% (v:v)
	Botrytis grey mould ( <i>Botrytis cinerea</i> )	Suppression	

Tomato (Greenhouse only)	Powdery mildew ( <i>Oidium neolycopersici</i> )	Suppression	Dilute 1.0 L product in 100 L of water, i.e. 1.0% (v:v)
CROP GROUP 8-09: Fruiting Vegetables**	Botrytis grey mould ( <i>Botrytis cinerea</i> ) (field)	Suppression	Dilute 1 L product in 100 L of water, i.e. 1.0% (v:v)
Eggplant, bell pepper (Greenhouse only)	Powdery mildew ( <i>Podosphaera fusca</i> )	Partial suppression	Dilute 2.5 L product in 100 L of water, i.e. 2.5% (v:v)
Cucumber	Downy mildew ( <i>Pseudoperonospora cubensis</i> )	Partial suppression	Dilute 1.0 L product in 100 L of water, i.e. 1.0% (v:v)
	Bacterial wilt ( <i>Erwinia tracheiphila</i> )	Suppression	
Cucumber (Greenhouse)	Powdery mildew ( <i>Podosphaera xanthii</i> )	Suppression	Dilute 1 L product in 100 L of water, i.e. 1.0% (v:v).
Lettuce (head and leaf)	Downy mildew ( <i>Bremia lactucae</i> )	Suppression	Dilute 1.0 L product in 100 L of water, i.e. 1.0% (v:v)
Onion (bulb and green)	Bacterial blight ( <i>Xanthomonas campestris</i> )	Suppression	Dilute 1.0 L product in 100 L water, i.e. 1.0% (v:v). Add a non-ionic surfactant at 0.125% (v:v) (125 mL per 100 L of spray solution)
Celery	Downy mildew ( <i>Peronospora umbellifarum</i> )	Suppression	Dilute 1.0 L product in 100 L of water, i.e. 1.0% (v:v)
Hydroponically Grown Lettuce	Powdery mildew ( <i>Erysiphe cichoracearum</i> )	Partial suppression	Dilute 0.3 L product in 100 L of water, 0.3% (v:v)
Hops	Alternaria cone blight ( <i>Alternaria alternata</i> ) Partial suppression of Botrytis grey mould ( <i>Botrytis cinerea</i> )	Partial suppression	Dilute 1 to 2.5 L product in 100 L of water, i.e. 1.0 – 2.5% (v:v)
	Downy mildew ( <i>Pseudoperonospora humuli</i> ), Powdery mildew ( <i>Podosphaera macularis</i> )	Suppression	
Potato	Botrytis tan spot ( <i>Botrytis cinerea</i> )	Partial suppression	Dilute 2.5 L product in 100 L of water, i.e. 2.5% (v:v)
	White mould ( <i>Sclerotinia sclerotiorum</i> )	Suppression	
	Brown leaf spot ( <i>Alternaria alternata</i> )	Suppression	Dilute 1.0–2.5 L product in 100 L of water, i.e. 1.0–2.5% (v:v)
Pumpkin	Powdery mildew ( <i>Podosphaera fusca</i> )	Partial suppression	Dilute 2.5 L product in 100 L of water, i.e. 2.5% (v:v)
Zucchini	Powdery mildew ( <i>Erysiphe cichoracearum</i> )	Partial suppression	Dilute 2.5 L product in 100 L of water, i.e. 2.5% (v:v)
Cannabis and Industrial Hemp	Powdery mildew ( <i>Podosphaera macularis</i> )	Partial suppression	Dilute 1.0 L product in 100 L of water, i.e. 1.0% (v:v)

(grown only for cannabinoid extraction)	Botrytis blight ( <i>Botrytis cinerea</i> )	Suppression	
CROP GROUP 25 Herbs***	Botrytis grey mold ( <i>Botrytis cinerea</i> ) (field)	Suppression	Dilute 1 L product in 100 L of water, i.e. 1.0% (v:v)
Asian Water Spinach (field and greenhouse)	Botrytis grey mould ( <i>Botrytis cinerea</i> )	Partial suppression	Dilute 1.0 L product in 100 L of water, i.e. 1.0%
CROP SUBGROUP 4-13B (Brassica leafy greens) (field and greenhouse transplants): Arugula, Broccoli raab, Broccoli, Chinese, Cabbage, Abyssinian, Cabbage, seakale, Chinese Cabbage, bok choy, Collards, Cress, garden, Cress, upland, Hanover salad, Kale, Maca, Mizuna, Mustard greens, Radish, leaves, Rape greens, Rocket, wild, Shepherd's purse, Turnip greens, Watercress and cultivars, varieties and/or hybrids of these.	Downy mildew ( <i>Peronospora parasitica</i> )	Suppression	Dilute 1.0 L product in 100 L of water, i.e. 1.0% (v:v)
CROP GROUP 5-13 (Brassica head and stem vegetables) (field and greenhouse transplants): Broccoli, Brussels sprouts, Cabbage, Cabbage, Chinese (napa), Cauliflower and cultivars, varieties and/or hybrids of	Downy mildew ( <i>Peronospora parasitica</i> )	Suppression	Dilute 1.0 L product in 100 L of water, i.e. 1.0% (v:v)

\*CROP SUBGROUP 13-07A (Caneberries): Blackberry (including Andean blackberry, arctic blackberry, bingleberry, black satin berry, boysenberry, brombeere, California blackberry, Chesterberry, Cherokee blackberry, Cheyenne blackberry, common blackberry, coryberry, darrowberry, dewberry, Dirksen thornless berry, evergreen blackberry, Himalayaberry,

hullberry, lavacaberry, loganberry, lowberry, Lucretiaberry, mammoth blackberry, marionberry, mora, mures deronce, nectarberry, Northern dewberry, olallieberry, Oregon evergreen berry, phenomenalberry, rangeberry, ravenberry, rossberry, Shawnee blackberry, Southern dewberry, tayberry, youngberry, zarzamora, and cultivars, varieties and/or hybrids of these), loganberry, raspberry (black and red), wild raspberry, and cultivars, varieties and/or hybrids of these.

\*\* CG 8-09 Fruiting vegetables: African eggplant; bell pepper; currant tomato; eggplant; garden huckleberry; goji berry; groundcherry; martynia; okra; pea eggplant; pepino; nonbell pepper; scarlet eggplant; sunberry; tomatillo; tomato; cultivars, varieties, and/or hybrids of these.

\*\*\* Crop Group 25 – Herbs: Agrimony (fresh leaves) Agrimony (dried leaves); Angelica (fresh leaves); Angelica (dried leaves); Angelica, fragrant (fresh leaves); Angelica, fragrant (dried leaves); Applemint (fresh leaves); Applemint (dried leaves); Avarum (fresh leaves); Avarum (dried leaves); Balm (fresh leaves); Balm (dried leaves); Balloon pea (fresh leaves); Balloon pea (dried leaves); Barrenwort (dried leaves); Basil (fresh leaves); Basil (dried leaves); Basil, American (fresh leaves); Basil, American (dried leaves); Basil, Greek (fresh leaves); Basil, Greek (dried leaves); Basil, holy (fresh leaves); Basil, holy (dried leaves); Basil, lemon (fresh leaves); Basil, lemon (dried leaves); Basil, Russian (fresh leaves); Basil, Russian (dried leaves); Bay (fresh leaves); Bay (dried leaves); Bisongrass (fresh leaves); Bisongrass (dried leaves); Blue mallow (fresh leaves); Boneset (fresh leaves); Boneset (dried leaves); Borage (fresh leaves); Borage (dried leaves); Borage, Indian (fresh leaves); Borage, Indian (dried leaves); Burnet (fresh leaves); Burnet (dried leaves); Burnet, garden (fresh leaves); Burnet, garden (dried leaves); Burnet, salad (fresh leaves); Burnet, salad (dried leaves); Butterbur (dried leaves); Calamint (fresh leaves); Calamint (dried leaves); Calamint, large-flower (fresh leaves); Calamint, large-flower (dried leaves); Calamint, lesser (fresh leaves); Calamint, lesser (dried leaves); Calendula (fresh leaves); Calendula (dried leaves); Caltrop (fresh leaves); Caltrop (dried leaves); Camomile, Chamomile (fresh leaves); Camomile , Chamomile) (dried leaves); Camomile , Chamomile (German, fresh leaves); Camomile , Chamomile (German, dried leaves); Camomile , Chamomile (Roman, fresh leaves); Camomile , Chamomile (Roman, dried leaves); Caraway (fresh leaves); Caraway (dried leaves); Cat's claw (dried leaves); Catnip (fresh leaves); Catnip (dried leaves); Catnip, Japanese (fresh leaves); Catnip, Japanese (dried leaves); Celandine, greater (fresh leaves); Celandine, lesser (fresh leaves); Centaury (fresh leaves);Centaury (dried leaves); Chaste tree (fresh leaves); Chaste tree (dried leaves); Chervil (dried leaves); Chinese chastetree (dried leaves); Chinese foxglove (dried leaves); Chive (dried leaves); Chive, Chinese (dried leaves); Cicely, sweet (fresh leaves); Cicely, sweet (dried leaves); Cilantro (dried leaves); Clary (fresh leaves); Clary (dried leaves); Coriander, Bolivian (fresh leaves); Coriander, Bolivian (dried leaves); Coriander, Vietnamese (fresh leaves); Coriander, Vietnamese(dried leaves); Costmary (fresh leaves); Costmary (dried leaves); Creat (dried leaves); Culantro (fresh leaves); Culantro (dried leaves); Curry leaf (fresh leaves); Curry leaf (dried leaves); Curryplan (fresh leaves); Cut leaf (fresh leaves); Cut leaf (fresh leaves); Dillweed (dried leaves); Dokudami (fresh leaves); Echinacea (dried leaves); Epazote (fresh leaves); Epazote (dried leaves); Eucommia (dried leaves); Evening primrose (fresh leaves); Evening primrose (dried leaves); Fennel, common (fresh leaves); Fennel, common (dried leaves); Fennel, Florence (dried leaves); Fennel, Spanish (fresh leaves); Fennel, Spanish (dried leaves); Fenugreek (fresh leaves); Fenugreek (dried leaves); Feverfew (fresh leaves); Feverfew (dried leaves);

Field pennycress (fresh leaves); Flowers, edible, fresh, multiple species; Flowers, edible, dried, multiple species; Fumitory (fresh leaves); Fumitory (dried leaves); Galbanum (dried leaves); Gambir (fresh leaves); Geranium (fresh leaves); Geranium (dried leaves); Geranium, lemon (fresh leaves); Geranium, lemon (dried leaves); Geranium, rose (fresh leaves); Geranium, rose (dried leaves); Germander, golden (fresh leaves); Germander, golden (dried leaves); Gotu kola (dried leaves); Gumweed (fresh leaves); Gumweed (dried leaves); Gymnema (dried leaves); Gypsywort (fresh leaves); Gypsywort (dried leaves); Heal-all (fresh leaves); Heal-all (dried leaves); Honewort (fresh leaves); Honeybush (dried leaves); Horehound (fresh leaves); Horehound (dried leaves); Horsemint (fresh leaves); Horsemint (dried leaves); Hyssop (fresh leaves); Hyssop (dried leaves); Hyssop, anise (fresh leaves); Hyssop, anise (dried leaves); Jasmine (fresh leaves); Jasmine (dried leaves); Labrador tea (fresh leaves); Labrador tea (dried leaves); Lavender (fresh leaves); Lavender (dried leaves); Lemongrass (fresh leaves); Lemongrass (dried leaves); Lemon verbena (fresh leaves); Lemon verbena (dried leaves); Lovage (fresh leaves); Lovage (dried leaves); Love-in-a-mist (fresh leaves); Love-in-a-mist (dried leaves); Mamaki (dried leaves); Marigold (fresh leaves); Marigold (dried leaves); Marigold, African (fresh leaves); Marigold, African (dried leaves); Marigold, Aztec (fresh leaves); Marigold, Aztec (dried leaves); Marigold, French (fresh leaves); Marigold, French (dried leaves); Marigold, Irish lace (fresh leaves); Marigold, Irish lace (dried leaves); Marigold, licorice (fresh leaves); Marigold, licorice (dried leaves); Marigold, Mexican mint (fresh leaves); Marigold, Mexican mint (dried leaves); Marigold, signet (fresh leaves); Marigold, signet (dried leaves); Marjoram, (fresh leaves); Marjoram (dried leaves); Marjoram, pot (fresh leaves); Marjoram, pot (dried leaves); Marjoram, sweet (fresh leaves); Marjoram, sweet (dried leaves); Marshmallow (fresh leaves); Marshmallow (dried leaves); Meadowsweet (fresh leaves); Meadowsweet (dried leaves); Mint (fresh leaves); Mint (dried leaves); Mint corn, (fresh leaves); Mint corn (dried leaves); Mint, Korean (fresh leaves); Mint, Korean (dried leaves); Monarda (fresh leaves); Monarda (dried leaves); Motherwort (fresh leaves); Motherwort (dried leaves); Mountainmint (fresh leaves); Mountainmint (dried leaves); Mountainmint, clustered (fresh leaves); Mountainmint, clustered (dried leaves); Mountainmint, hoary (fresh leaves); Mountainmint, hoary (dried leaves); Mountainmint, Virginia (fresh leaves); Mountainmint, Virginia (dried leaves); Mountainmint, whorled (fresh leaves); Mountainmint, whorled (dried leaves); Mugwort (fresh leaves); Mugwort (dried leaves); Mulberry, white (dried leaves); Mullein (fresh leaves); Mullein (dried leaves); Nasturtium (fresh leaves); Nasturtium (dried leaves); Nasturtium, bush (fresh leaves); Nasturtium, bush (dried leaves); Nasturtium, garden (fresh leaves); Nasturtium, garden (dried leaves); Nettle (fresh leaves); Nettle (dried leaves); Oregano (fresh leaves); Oregano (dried leaves); Oregano, Mexican (fresh leaves); Oregano, Mexican (dried leaves); Oregano, Puerto Rico (fresh leaves); Oregano, Puerto Rico (dried leaves); Oswego tea (fresh leaves); Oswego tea (dried leaves); Pandan leaf (fresh leaves); Pandan leaf (dried leaves); Pansy (fresh leaves); Pansy (dried leaves); Paracress (fresh leaves); Paracress (dried leaves); Parsley (dried leaves); Pennyroyal (fresh leaves); Pennyroyal (dried leaves); Peppermint (fresh leaves); Peppermint (dried leaves); Perilla (fresh leaves); Perilla (dried leaves); Rooibos (dried leaves); Rose (fresh leaves); Rose (dried leaves); Rosemary (fresh leaves); Rosemary (dried leaves); Sage (fresh leaves); Sage (dried leaves); Sage, Greek (fresh leaves); Sage, Greek (dried leaves); Sage, Spanish (fresh leaves); Sage, Spanish (dried leaves); Savory, summer (fresh leaves); Savory, summer (dried leaves); Savory, winter (fresh leaves); Savory, winter (dried leaves); Sorrel (fresh leaves); Sorrel, (dried leaves); Sorrel, French (fresh

leaves); Sorrel, French (dried leaves); Sorrel, garden (fresh leaves); Sorrel, garden (dried leaves); Southernwood (fresh leaves); Southernwood (dried leaves); Spearmint (fresh leaves); Spearmint (dried leaves); Spearmint, Scotch (fresh leaves); Spearmint, Scotch (dried leaves); Spotted beebalm (fresh leaves); Spotted beebalm (dried leaves); Squaw vine (dried leaves); St. John's Wort (dried leaves); Stevia (dried leaves); Swamp leaf (fresh leaves); Tansy (fresh leaves); Tansy (dried leaves); Tarragon (fresh leaves); Tarragon (dried leaves); Thyme (fresh leaves); Thyme (dried leaves); Thyme, creeping (fresh leaves); Thyme, creeping (dried leaves); Thyme, lemon (fresh leaves); Thyme, lemon (dried leaves); Thyme, mastic (fresh leaves); Thyme, mastic (dried leaves); Toon, Chinese (fresh leaves); Toon, Chinese (dried leaves); Vasaka (dried leaves); Veronica (fresh leaves); Violet (fresh leaves); Violet (dried leaves); Watermint (fresh leaves); Watermint (dried leaves); Waterpepper (fresh leaves); Wild bergamot (fresh leaves); Wild bergamot (dried leaves); Wintergreen (fresh leaves); Wintergreen (dried leaves); Wood betony (dried leaves); Woodruff (fresh leaves); Woodruff (dried leaves); Wormwood (fresh leaves); Wormwood (dried leaves); Wormwood, Roman (fresh leaves); Wormwood, Roman (dried leaves); Yarrow (fresh leaves); Yarrow (dried leaves); Yellow gentian (fresh leaves); Yellow gentian (dried leaves); Yerba santa (fresh leaves); Yerba santa (dried leaves); Yomogi (fresh leaves); Yomogi (dried leaves); Also included are cultivars, varieties, and hybrids of these commodities.

*NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS.*

### **Aerosol/Fog Treatments for Management of Foliar Diseases in Labeled Crops (refer to table above) Grown in Greenhouses and Hydroponic Growing Systems**

OxiDate can be applied as an aerosol/fog using commercial cold or thermal fogging equipment. Apply a 1.0%-2.0% v/v solution of OxiDate with water until an even distribution is achieved on the leaf and stem (fruit) surface and a contact time of at least 10 seconds with the applied fog solution is achieved.

Always test by fogging on few plants first at these concentrations and ensure no injury to plants before using on large scale. For crops that are in bloom and/or have low tolerance to OxiDate, do not exceed solution concentration of 1%. Repeat applications once every 5-7 days up to a maximum of 8 applications per year. Use a compatible dispersal agent to minimize evaporation of applied aerosol and better deposition on plant surface.

### **Greenhouse, Enclosed Structure Surfaces, and Equipment Application Instructions**

To clean and sanitize wood and non-porous hard-surfaces: Dilute between 3.3 mL and 20 mL of OxiDate per litre of clean water. Use the higher concentration (i.e. 20 mL/L) when treating heavily soiled or contaminated areas.

#### **Directions:**

- 1) Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt.
- 2) Use the appropriate dilution of OxiDate (see use rates).

- 3) Apply solution with a sprayer or foamer to thoroughly wet all surfaces. Allow solution to remain in contact with surfaces for a minimum of 10 minutes, allow to air dry.
- 4) Heavy growths of algae and fungi may have to be scrubbed off following application and after scrubbing, reapply OxiDate to the area.
- 5) Apply as part of a normal cleaning practice.

**Spray:** Spray until runoff. Allow surfaces to remain wet with solution for 10 minutes.

**Foam:** Apply OxiDate as a foam treatment to enhance contact on wood surfaces, vertical surfaces and irregular surfaces such as metal grating and structural steel where contact is difficult to maintain with coarse spray treatments. Add a foaming agent to the spray tank that contains the diluted OxiDate solution. Apply foam until the surface treated is completely covered and let stand for 10 minutes. Allow foam treated surface to air dry. Do not rinse.

**STORAGE:**

Store in original container in a cool, well-ventilated area inaccessible to children and away from direct sunlight, food and feed. Do not allow product to become overheated in storage. The high temperature may increase the degradation of the product, which will decrease product effectiveness. Since OxiDate is a strong oxidizing agent, contact with combustibles may cause fire. Keep containers tightly closed when not in use.

Store this product away from food or feed.

**DISPOSAL:**

DO NOT reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial or territorial requirements.

For information on disposal of unused, unwanted product, contact the registrant or the provincial or territorial regulatory agency. Contact the registrant and the provincial or territorial regulatory agency in case of a spill, and for clean-up of spills.

**NOTICE TO USER:**

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.