

BIOSAFE SYSTEMS, LLC

OxiDate® FC

SOLUTION

Broad-Spectrum Bactericide/Fungicide

COMMERCIAL

A solution for the suppression or partial suppression of diseases on labeled crops grown in the field

READ THE LABEL BEFORE USING
KEEP OUT OF REACH OF CHILDREN

REGISTRATION NO.: 33468 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

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 FC 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 goggles or face shield, coveralls over long-sleeved shirt and long pants, boots, chemical-resistant gloves and a NIOSH-approved respirator during mixing, loading, application, clean-up and repair activities.

OxiDate FC 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 FC, as a result of the daily applications, may also become corroded. Ship and store away from food, fertilizer, feed and seed.

For foliar sprays (field):

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 goggles or face shield, coveralls over long-sleeved shirt and long pants, boots, chemical-resistant gloves and a NIOSH-approved respirator.

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.

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.

This product may be toxic to bees and other beneficial insects exposed to direct contact. Avoid application during the crop blooming period. If applications must be made during the crop blooming period, restrict applications to evening when most bees are not foraging.

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 strip between the treated area and the edge of the water body.

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 FC has not been tested with all potential tank-mix partner products. Conduct a jar test before mixing OxiDate FC 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 FC 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 FC.

PLANT SENSITIVITY TESTING:

Use OxiDate FC 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 FC 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 FC above labeled rates.

SOLUTION PREPARATION:

OxiDate FC 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 FC is used for the suppression or partial suppression of multiple diseases in the labeled crops in the field.

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 is required. For increased coverage and penetration of spray, use a compatible non-ionic wetting agent/surfactant.

For best suppression or partial suppression of targeted plant diseases, apply OxiDate FC 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.

Thoroughly wet all surfaces of plant, upper and lower foliage, including 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 FC 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 contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

Field sprayer application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. Boom height must be 60 cm or less above the crop or ground.

Airblast application: **DO NOT** apply during periods of dead calm. 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, beans, tomato, cauliflower, lettuce, broccoli, celery, sugar beet, watermelon, cucumber, and field red (garden) beets		1	1	1	1	1
	Potato, pumpkin, zucchini, hops		2	1	1	1	1
Airblast	Apple, pear, grape, highbush blueberry, sweet cherry	Early growth stage	20	10	4	1	1
		Late growth stage	10	4	2	1	1

For tank mixes, 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 (ASAE) category indicated on the labels for those tank mix partners.

The spray buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Buffer Zone Calculator on the Pest Management Regulatory Agency web site.

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

FIELD APPLICATIONS

When applied as directed, OxiDate FC will suppress the diseases listed below unless indicated otherwise.

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

Crop Outdoor Grown	Target Diseases Suppressed	Application Rate
Blueberry	Partial suppression of Mummy berry (<i>Monilinia vaccinii-corymbosi</i>)	Dilute 1.0 L product in 100 L of water, i.e. 1.0% (v:v)
	Partial suppression of Phomopsis twig blight (<i>Phomopsis vaccinii</i>)	
Grape	Partial suppression of Black rot (<i>Guignardia bidwellii</i>)	Dilute 1.0 L product in 100 L of water, i.e. 1.0% (v:v)
	Downy mildew (<i>Plasmopara viticola</i>)	
	Cane and leaf spot and fruit rot (<i>Phomopsis viticola</i>)	
	Partial suppression of Powdery mildew (<i>Erysiphe necator</i>)	
Strawberry	Botrytis fruit rot (<i>Botrytis cinerea</i>)	Dilute 1.0 L product in 100 L of water, i.e. 1.0% (v:v)
	Angular leaf spot (<i>Xanthomonas fragariae</i>)	
Apple Pear	Partial suppression of Fire blight (<i>Erwinia amylovora</i>)	Dilute 1.0 L product in 100 L of water, i.e. 1.0% (v:v)
Apple	Partial suppression of Scab (<i>Venturia inaequalis</i>)	Dilute 1.0 L product in 100 L of water, i.e. 1.0% (v:v)
	Powdery mildew (<i>Podosphaera leucotricha</i>)	
	Partial suppression of Black rot (<i>Botryosphaeria obtusa</i>)	
Beans	Partial suppression of Bacterial blight (<i>Xanthomonas campestris pv. phaseoli</i>)	Dilute 1.0 L product in 100 L of water, i.e. 1.0% (v:v)
Sweet cherry	Reduction of slip-skin maceration disorder (associated yeast species: <i>Aureobasidium pullulans</i> , <i>Candida railenensis</i> , <i>Cryptococcus victoriae</i> and	Dilute 1.0 L product in 100 L of water, i.e. 1.0% (v:v)

	<i>Hanseniaspora uvarum</i>)	
Sugar Beet, Red (Garden) Beet	Partial suppression of Cercospora leaf spot (<i>Cercospora beticola</i>)	Dilute 1.0 L product in 100 L of water, i.e. 1.0% (v:v)
Watermelon	Partial suppression of Gummy stem blight (<i>Didymella bryoniae</i>)	Dilute 1.0 L product in 100 L of water, i.e. 1.0% (v:v)
Tomato	Partial suppression of Leaf mould (<i>Fulvia fulva</i> syn. <i>Cladosporium fulvum</i>), Botrytis grey mould (<i>Botrytis cinerea</i>)	Dilute 1.0 L product in 100 L of water, i.e. 1.0% (v:v)
Cucumber	Partial suppression of Downy mildew (<i>Pseudoperonospora cubensis</i>) Bacterial wilt (<i>Erwinia tracheiphila</i>)	Dilute 1.0 L product in 100 L of water, i.e. 1.0% (v:v)
Lettuce	Downy mildew (<i>Bremia lactucae</i>)	Dilute 1.0 L product in 100 L of water, i.e. 1.0% (v:v)
Cauliflower, Broccoli	Downy mildew (<i>Peronospora parasitica</i>)	Dilute 1.0 L product in 100 L of water, i.e. 1.0% (v:v)
Celery	Downy mildew (<i>Peronospora umbellifarum</i>)	Dilute 1.0 L product in 100 L of water, i.e. 1.0% (v:v)
Hops	Partial suppression of Alternaria cone blight (<i>Alternaria alternata</i>) Partial suppression of Botrytis grey mould (<i>Botrytis cinerea</i>)	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>)	Dilute 1 L product in 100 L of water, i.e. 1.0% (v:v)
Potato	Partial suppression of Botrytis tan spot (<i>Botrytis cinerea</i>)	Dilute 2.5 L product in 100 L of water, i.e. 2.5% (v:v)
	White mold (<i>Sclerotinia sclerotiorum</i>)	
	Brown leaf spot (<i>Alternaria alternata</i>)	Dilute 1.0-2.5 L product in 100 L of water, i.e. 1.0-2.5% (v:v)

Pumpkin	Partial suppression of Powdery mildew (<i>Podosphaera fusca</i>)	Dilute 2.5 L product in 100 L of water, i.e. 2.5% (v:v)
Zucchini	Partial suppression of Powdery mildew (<i>Erysiphe cichoracearum</i>)	Dilute 2.5 L product in 100 L of water, i.e. 2.5% (v:v)

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 FC is a strong oxidizing agent, contact with combustibles may cause fire. Keep containers tightly closed when not in use.

To prevent contamination 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/territorial requirements.

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial/territorial regulatory agency. Contact the manufacturer and the provincial/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.