



OxiDATE[®]
Broad Spectrum Bactericide/Fungicide

NEED TO KNOW

A powerful concentrate that protects growing crops from disease

- Zero Days to Harvest
- Exempt from Tolerance for Pesticide Residue
- OMRI Listed for Use in Organic Production
- No Mutational Resistance
- Zero-Hour Restricted Entry Interval (Four-Hour REI in California)

WHAT IS OXIDATE?

OxiDate is a broad spectrum bactericide/fungicide treatment for the prevention and control of plant pathogenic diseases in field-grown crops and commercial greenhouses.

WHAT ARE THE ACTIVE INGREDIENTS?

Activated Peroxygen Chemistry (APC):
27.00% Hydrogen Dioxide

WHAT IS HYDROGEN DIOXIDE?

OxiDate is an engineered hydrogen dioxide molecule, which combines peroxide with a per-acid (an acid with extra Oxygen on it) to form a dioxide. Dioxides are extremely effective anti-microbials because they are highly reactive oxidizers. The inherent problem is that without proper stabilization, dioxides tend to break down immediately upon formulation. OxiDate is formulated with proprietary stabilizers and buffers, which slow down and focus the chemical reaction to be most reactive with proteins and enzymes.

HOW SHOULD OXIDATE BE USED?

OxiDate kills fungus, bacteria and spores on contact, stopping infection in its tracks.

- *Quick knock-down*
- *Population control*
- *Resistance management tool*
- *Ideal tank mix partner for residual chemistries*
(See label for mixing instructions)
- *Foliar spray*

WHAT IS OXIDATE'S MODE OF ACTION?

OxiDate uses an oxidation chemical reaction to kill bacteria, fungus and spores. More specifically, OxiDate reacts with the enzymes and proteins that make up simple cell organisms on contact.

WHAT IS THE RATE FOR OXIDATE?

Unlike most other chemistries, the rates for OxiDate are expressed in dilution ratios. The reason for this is tied to the mode of action, which requires contact with the plant surface

being treated. The strength of the chemical reaction is critical to assuring effectiveness. Experience has shown that if spray volumes are less than 50 gallons per acre, the concentrate should be at the stronger end of the range (1 gallon per 100 gallons). Spray volumes of 50 gallons or more can be applied using the 1/3 to 1 gallon per 100 gallons range. If disease pressure is high you should be at the higher end of the range. Be careful giving a rate per acre unless you know the spray volume per acre ahead of time. (See *OxiDate Application Instructions*)

CAN I TANK MIX OXIDATE?

OxiDate has been shown to be chemically compatible with a number of chemicals. However, do not mix OxiDate concentrate with undiluted fertilizers or pesticides. Dilute OxiDate with water then add liquid fertilizers and pesticides. Before tank mixing OxiDate with fertilizers, fungicides or bactericides, conduct a compatibility test of each combination. Make a test solution per manufacturer's label in a container, close the lid and shake or stir vigorously. Excessive bubbling and/or increased pressure are an indication of incompatibility. (See *OxiDate Directions for Use*)

HOW SAFE IS OXIDATE?

OxiDate is OMRI listed for use in organic production, has a zero-hour REI (four-hour REI in California), and there is no bioaccumulation in tissue or the environment. The dilute working solution of OxiDate does not require the use of eye protection or respirator by applicators or handlers.

OxiDate concentrate carries a "Danger" signal word. The dangers associated with OxiDate relate to the concentrated solution. The concentrate is corrosive and a strong oxidizer. These dangers can be minimized by the proper use of protective eyewear, gloves, and coveralls. Skin contact with the concentrate may cause temporary discoloration and irritation. Eye contact with the concentrate may cause severe eye damage. When handling the concentrate wear protective eyewear (goggles or face shield) and rubber gloves.

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WHAT ARE OXIDATE'S PHYSICAL PROPERTIES:

Clear Colorless Liquid

WHAT SIZES DOES OXIDATE COME IN AND HOW MANY ARE ON A PALLET?

SIZE # ON PALLET
2.5 gallon 75 per pallet
5 gallon 32 per pallet
30 gallon 5 per pallet
55 gallon 4 per pallet
275 gallon 1 per pallet

Freight is included on all FULL pallet quantity orders shipped to locations in the continental USA.*

*Only applicable for ONE shipping location

WHAT CROPS ARE ON THE OXIDATE LABEL?

- **Almonds**
- **Asparagus**
- **Bananas/Plantains**
- **Beans**
 - Snap & Dry
 - Lima & Soybean
- **Berries**
including but not limited to:
 - Blackberry
 - Blueberry
 - Cranberry
 - Raspberry
 - Strawberry
- **Celery**
- **Citrus Crops**
including but not limited to:
 - Grapefruit
 - Kumquat
 - Lemon
 - Orange
 - Tangerine
- **Cole Crops**
including but not limited to:
 - Broccoli
 - Brussels Sprouts
 - Cabbage
 - Cauliflower
 - Collards
- **Cucurbit Crops**
including but not limited to:
 - Cucumber
 - Melons
 - Pumpkin
 - Squash
- **Filberts**
- **Garlic**
- **Grapes**
- **Grasses grown for seed or sod**
- **Herbs and Spices**
including but not limited to:
 - Basil
 - Chives
 - Cilantro
 - Coriander
 - Dill
 - Mint
 - Rosemary
 - Sage
- **Leafy Vegetables**
- **Leeks**
- **Mushrooms**
- **Onions**
- **Peanuts**
- **Peppers**
- **Pome Fruits**
including but not limited to:
 - Apples
 - Pears
- **Potatoes**
- **Potatoes (Seed)**
- **Root Crops**
including but not limited to:
 - Beets
 - Carrots
 - Ginseng
 - Horseradish
 - Sweet Potato
 - Yams
- **Shallots**
- **Stone Fruits**
including but not limited to:
 - Cherries
 - Nectarines
 - Peaches
 - Plums
 - Prunes
- **Sugar Beets**
- **Tobacco (Field)**
- **Tobacco (Float Beds)**
- **Tomatoes**
- **Tropical Fruits**
including but not limited to:
 - Casaba
 - Coconut
 - Dates
 - Guava
 - Kiwi
 - Mango
 - Passion Fruit
 - Pineapple
 - Poi
 - Star Fruit



For additional information on OxiDate® Broad Spectrum Bactericide/Fungicide call us toll-free at: 1-877-358-1299 or visit us at: <http://www.enviroselects.com>

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