



## SPECIMEN LABEL

**EPA REGISTRATION NO.** 70299-15

### ACTIVE INGREDIENTS

Sodium Carbonate Peroxyhydrate\* .....85.00%

**OTHER INGREDIENTS** .....15.00%

**TOTAL** .....100.00%

\*Contains 27.60% Hydrogen Peroxide by weight.

## KEEP OUT OF REACH OF CHILDREN DANGER – PELIGRO

*Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)*

### FIRST AID

#### 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 center 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 center or doctor for treatment advice.

#### If swallowed

- Call a poison control center 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 center or doctor.
- Do not give anything by mouth to an unconscious person.

#### If inhaled

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

### HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-222-1222 for emergency medical treatment information.

### NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage.

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**DANGER: Corrosive.** Causes irreversible eye damage. Harmful if swallowed, inhaled or absorbed through skin. Do not get in eyes, on skin or on clothing. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Handlers who may be exposed to the dilute through application or other tasks must wear: long-sleeved shirt and long pants, and shoes plus socks. Handlers who may be exposed to the concentrate through mixing, loading, application, or other tasks must wear: coveralls over long-sleeved shirt and long pants, rubber gloves, chemical resistant footwear plus socks, and protective eyewear (goggles or face shield).

Follow manufacturer's instructions for cleaning/maintaining PPE. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### USER SAFETY RECOMMENDATIONS: Users should:

- Wash hands thoroughly with soap and water before eating, drinking, chewing gum, using tobacco or using the toilet.
- Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### ENVIRONMENTAL HAZARDS

This pesticide is toxic to birds. This product is highly toxic to bees and other beneficial insects exposed to direct contact on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area. Do not apply this product or allow it to drift to crops where beneficials are part of an integrated pest management strategy. Do not contaminate water when disposing of equipment washwaters or rinsate. Do not use near waterbody margins during amphibian breeding seasons.

### PHYSICAL AND CHEMICAL HAZARDS

Strong oxidizing agent. **Corrosive.** Do not bring in contact with other pesticides, cleaners or oxidative agents.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For any requirements specific to your State or Tribe, consult the state or tribal agency responsible for pesticide regulation. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about Personal Protective Equipment (PPE), notification to workers, and Restricted-Entry Interval (REI). The requirements in this box only apply to the uses of this product that are covered by the Worker Protection Standard.

#### For enclosed environments:

There is a restricted entry of one (1) hour for this product when applied via fogging or spraying to growing plants, surfaces, equipment, structures and non-porous surfaces in enclosed environments such as glasshouses and greenhouses. PPE requirement for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, is coveralls worn over long-sleeved shirt and pants, waterproof gloves and shoes plus socks.

There is a restricted entry of zero (0) hours for pre-plant dip, seed treatment, soil drench, mop, sponge, dip, soak, rinse or other non-spraying or non-fogging application methods when used in enclosed environments such as glasshouses and greenhouses.

For field applications:

Keep unprotected persons out of treated areas until sprays have dried or dusts have settled.

**Non-Agricultural Use Requirements**

The requirements in this box apply to uses of this product that are **not** within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.

Keep unprotected persons out of treated areas until sprays have dried or dusts have settled.

**PRODUCT INTRODUCTION**

Use PerCarb to suppress, control and/or prevent algae, nostoc algae, cyanobacteria, bacteria, fungi, moss and slime mold in most non-painted surfaces, on turf grasses, and soil surfaces containing growing plants.

This product is not intended as treatment against any public health organism for any use on this label.

Do not allow spray to drift from the application site and contact people or structures that people occupy.

This product is a bactericide/fungicide used to treat and control plant pathogens on indoor, greenhouse, and outdoor grown: ornamental plants, flowering plants, bedding plants, nursery stock, landscape plants, turf, and all agricultural crops including food crops.

This product is a miticide used to treat and control twospotted spider mites.

**FOR USE INDOOR AND OUTDOOR-GROWN COMMODITIES:**

Agricultural Commodities and Crops, Field Grown Crops, Tree Crops, Crops Grown in Commercial Greenhouses and Plastic Houses

**FOR USE ON THE FOLLOWING NON-PAINTED SURFACES:**

Floors, Walkways, Storage Areas, Patios, Decks, Railings, Roofs, Farm Equipment, Post-Harvest Equipment, Tools, Harvesting Equipment, Turf Equipment, Metal Structures, Greenhouse/Nursery Walkways, Industrial/Commercial Facility Walkways, Walls, Greenhouse Benches, Fan Blades, Vats, Tanks, Coolers, Storage Rooms, Bins, Elevators, Storage Areas, Spray Equipment, Conveyors, Irrigation Systems, Asphalt Shingles, Siding, Fiberglass, Boats, Piers, Docks, Stairs, Ramps, Ground Cover Mats, Weed Control Mats, Animal Bedding and Litter, Concrete, Brick, Tile, Slate, Granite, Statues/Monuments, Outdoor Furniture, Tennis Courts (non-grass), Nursery Yards, Shorelines, Gravel, Dirt Floors, Under Benches, and Other Non-Painted Surfaces

**SURFACE TREATMENT**

Use PerCarb on all listed non-painted surfaces, to prevent and control algae, nostoc algae, cyanobacteria, odor-causing bacteria, plant pathogens, moss, fungus, liverwort, molds, slime molds and their spores, and the odors and conditions that these organisms cause.

Use on surfaces and equipment: industrial/commercial facility walkways, greenhouse/nursery walkways, ground cloth, weed mats, floors, walls, on and under greenhouse benches, fan blades, watering systems, vats, tanks, coolers, storage rooms, bins, elevators, storage areas, spray equipment, conveyors, irrigation systems, trucks, and related equipment. Use in areas that promote slippery conditions and slip hazards caused by algae and slime molds.

**APPLICATION INSTRUCTIONS**

**POTS, FLATS, TRAYS AND CUTTING TOOLS:** Use PerCarb to suppress/control the spread of plant pathogens, fungi, and slime-forming algae. Use ¼ lb. of PerCarb per gallon of clean water. Spray equipment thoroughly or soak tools to ensure complete coverage.

**BENCHES AND WORK AREAS:** Sweep and remove all plant debris. Use a power sprayer to wash all surfaces to remove loose dirt. Use ¼ lb. of PerCarb per gallon of clean water. Apply as a spray or foam ensuring complete coverage. Scrub to remove heavy growths of algae and fungi.

**GROUND/SURFACE RATES:**

	<b>HEAVY ALGAE GROWTH:</b> 1-2 lbs. of PerCarb per 1,000 sq. ft. of area. (1 lb. = 2 cups)	<b>LOW ALGAE GROWTH:</b> ½-1 lb. of PerCarb per 1,000 sq. ft. of area. (1 lb. = 2 cups)
<b>LIQUID:</b>	<b>Solution Preparation:</b> Due to solubility limitations, it is necessary to use at least 1 gallon of water to fully dissolve each ½ lb. of PerCarb. Dissolution of PerCarb in cold water takes approximately 5 minutes. <b>Treatment Rates:</b> Use the same rates as given above. Spray solution on the desired treatment surface.	
<b>FOAM:</b>	<b>Solution Preparation:</b> Follow the Liquid solution preparation instructions above. Add 2-5 fl. oz. of an alkaline-based foam, such as BioFoamer Foaming Agent, per gallon of finished solution. Spray solution on the desired treatment surface. <b>Treatment Rates:</b> Use the same rates as given above.	

**APPLICATION METHODS**

**LIQUID:** Make a solution with PerCarb (refer to liquid application rates for mixing instructions). Spray this solution on the desired treatment surface.

**FOAM:** Make a solution with PerCarb (refer to foam application rates for mixing instructions). Spray this solution on the desired treatment surface. Use a foamer, such as the BioSafe BioFoamer, to apply.

**GENERAL TREATMENT NOTES**

- Control is most easily achieved when growth is not yet well established. Treat when growth first begins to appear.
- Apply in a manner that will ensure even distribution of PerCarb within the treatment area.
- When treating soil, gravel or other similar media, apply and incorporate PerCarb to an inch below the surface line, for optimum effectiveness.
- After application, do not allow undiluted granules to remain in an area where humans or animals are exposed.
- Non-target plants will suffer contact burn if undiluted granules are accidentally spilled on them. Do not apply in such a way that the concentrated product comes in contact with grass, ornamentals and other foliage.

**INDOOR AND OUTDOOR-GROWN CROPS, ORNAMENTALS, BEDDING PLANTS, FLOWERING PLANTS, SHRUBS, AND TREES GROWN IN GREENHOUSES OR OUTDOORS**

PerCarb is a broad-spectrum fungicide/bactericide used to treat and control the listed diseases and plant pathogens.

**COMPATIBILITY:** PerCarb is compatible as a tank-mix with many commonly used pesticides, fertilizers, adjuvants and non-ionic surfactants but has not been fully evaluated with all of these. Do not tank mix PerCarb in spray tanks with pesticides, surfactants or fertilizers before conducting a compatibility test to show it is physically compatible, effective and non-injurious under your use conditions.

To ensure compatibility, evaluate them prior to use as follows: Using a suitable container, add proportional amounts of product to water. Add wettable powders first, followed by water dispersible granules, then by liquid flowables and lastly, emulsifiable concentrates. Mix thoroughly and let stand for at least five minutes. If the combination stays mixed or can be remixed, it is physically compatible. Excessive bubbling and/or pressure are indications of incompatibility. Test the combination on a small portion of the crop to be treated to ensure that a phytotoxic response will not occur as a result of application.

**PLANT SENSITIVITY TESTING:** Be sure to use PerCarb at labeled dilutions as solutions more concentrated can result in leaf necrosis for some crops (i.e., do not use at concentrations greater than labeled rates). PerCarb provides a balanced source of the active ingredient directly to the plant surface. PerCarb has been used and tested on many varieties of plant material; however, the nature of the target plant, environmental conditions, plant vigor and the use of other pesticides can all affect plant sensitivity to PerCarb. Therefore, before treating large numbers of plants, test PerCarb on a few plants for sensitivity.

Application of PerCarb for curative control of obligate organisms living in the plant tissue (such as Downy and Powdery Mildew) can result in lesions on plant tissue. PerCarb will oxidize parasitic organisms living in plant tissue that are not always visible to the naked eye. Resulting oxidative effects can include spotting or drying of the plant tissue where organisms inhabited tissue.

**MIXING INSTRUCTIONS:** PerCarb will go into solution with clean water at no more than ½ lb. per one (1) gallon of water. Dissolution of PerCarb in cold water takes approximately 5 minutes, less in warm water. When mixing, fill the spray tank one-half full of water, add PerCarb slowly to the clean tank, while hydraulic and or mechanical agitation is operating. The additions of any spreaders should be added only after they have been predetermined to be chemically compatible with PerCarb.

PerCarb works best when diluted with water containing low levels of organic or inorganic materials, and with water having a neutral pH. Thoroughly rinse out tank with water before mixing.

Before tank mixing with fertilizers, fungicides, or bactericides, conduct a compatibility test for each combination. Make a test solution and shake or stir vigorously. Excessive bubbling and/or pressure are indications of incompatibility.

Do not mix PerCarb with other products with an acidic pH. Do not adjust pH after mixing of product. Acidification of solution will cause reduced product performance.

PerCarb is a strong oxidizing agent and may react with residues of metal-based fungicides or supplements. Do not apply PerCarb as a foliar spray immediately following foliar applications of metal-based products. Allow at least 24 hrs. after application of metal-based products before applying PerCarb as a foliar spray. Check the label of the metal-based product prior to application for specific instructions for use with other fungicide products.

**Note:** Use spray solutions within two hours of preparation, do not store and reuse mixed spray solution.

**FOLIAR APPLICATION TIMING:** Begin preventative applications at low rates when conditions are favorable for disease development such as rainy weather or during periods of high relative humidity. Maintain a 7-10 day spray interval. Begin using high rate at first sign of disease. Maintain a 7-day spray interval until control is achieved.

**Note:** For sensitive crops, such as spinach and Swiss chard, do not exceed concentrations greater than one (1) lb. per 100 gallons of water and increase spray frequency.

- Do not apply this product through any type of irrigation system.
- Do not apply directly to soil as a directed spray or drench.

**EARLY AND LATE DORMANT SPRAY APPLICATION INSTRUCTIONS:**

For dormant spray applications, follow directions on the **Application Rates and Directions Chart**. Use as a dormant spray for early and late season applications on tree nuts, tree fruits, small fruits, berries and vine crops prior to bud opening. Prepare a solution by mixing 0.75-1.0 lbs. of PerCarb per 25 gallons of water (3-4 lbs. per 100 gallons of water). For early and late season applications on woody ornamentals, nursery stock, shade and fruit and nut trees, roses, azaleas and small fruits prior to bud opening. Do not apply during bloom. Prepare a solution by mixing 4.8-6.5 oz. of PerCarb per 10 gallons of water (3-4 lbs. per 100 gallons of water). Use 10 gallons of spray solution to treat up to 1,000 sq. ft. Use up to 400 gallons of spray solution per acre. For the most effective results, use enough volume of spray solution to obtain complete and uniform coverage.

PerCarb Dilution Rate lbs./25 gallons of water	Lbs. of PerCarb per Acre			
	Total Spray Volume (Gallons/Acre)			
	50	100	200	400
0.25	0.50	1.00	2.00	4.00
0.50	1.00	2.00	4.00	8.00
0.75	1.50	3.00	6.00	12.00
1.0 (Dormant Sprays Only)	2.00	4.00	8.00	16.00

**FOLIAR SPRAY APPLICATION INSTRUCTIONS:** Apply as a foliar spray throughout the growing season on the listed crops and diseases. **See Application Rates and Directions Chart.**

Apply using backpack, hand-held, high volume, and boom or ground sprayer. For best results, use a properly calibrated sprayer or similar equipment. Check equipment and calibrate frequently.

PerCarb works by surface contact with the plants and materials being treated. It is important to ensure that all surfaces are thoroughly wet. PerCarb does not produce a distinct odor or deleterious effects to plants when used in accordance with label directions. Do not use at stronger than recommended rates, as leaf burn may result.

Prepare a solution by mixing 0.25-0.75 lb. (4-12 oz.) of PerCarb per 25 gallons of water (1-3 lbs. per 100 gallons of water). Use up to 400 gallons of spray solution per acre. For the most effective results, use enough volume of spray solution to obtain complete and uniform coverage of foliage and stems. Spray solution volume per acre will vary depending on crop type and stage of development.

**FOLIAR SPRAY TREATMENTS:** Use PerCarb as a contact foliar fungicide/bactericide to treat and control plant pathogenic diseases on outdoor grown ornamental trees, and field grown crops. This product can be used on the following crops including but not limited to: tree crops, berries, small fruits, vine crops, or other crops grown in similar sites. See the **Application Rates and Directions Chart**.

PerCarb may be applied up to and including the day of harvest.

**APPLICATION RATES AND DIRECTIONS CHART**

PerCarb can be used on the following crops, including but not limited to:

Crop	Disease(s)	Rate – Lbs. per 100 gallons of water
Asparagus	Asparagus Rust	Foliar: 1–3 lbs.
Berries: Blackberry, Blueberry, Cranberry, Raspberry	Alternaria, Botrytis, Downy Mildew, Mummy Berry, Leaf Blight, Powdery Mildew, Fruit Rot, Rust	Foliar: 1–3 lbs.
		Dormant: 3–4 lbs. Apply in early and late dormancy prior to bud break. Do not apply to blooming crops.

<b>Bulb Vegetables:</b> Garlic, Green Onions, Leeks, Onions, Scallions, Shallots	Alternaria Leaf Blight, Bacterial Leaf Blight, Botrytis Rot, Downy Mildew, Powdery Mildew	Foliar: 1–3 lbs.
<b>Cereal Grains &amp; Commodities:</b> Barley, Corn (field), Millet, Oats, Popcorn, Rice, Rye, Sorghum (Milo), Soybeans, Sweet Corn, Wheat, Wild Rice	<i>Anthracnose</i> , Bacterial Leaf Blight, Blast, Brown Leaf Spot, Common Rust, Common Smut, Downy Mildew, Leaf Smut, Sheath Blight	Foliar: 1–3 lbs.
<b>Citrus Crops:</b> Citrus Hybrids, Grapefruit, Kumquat, Lemon, Lime, Orange, Tangerine	<i>Alternaria</i> , <i>Anthracnose</i> , Brown Rot, Citrus Canker, Powdery Mildew, Rust, Scab	Foliar: 1–3 lbs.
		Dormant: 3–4 lbs. Apply in early and late dormancy prior to bud break. Do not apply to blooming crops.
<b>Coffee</b>	Bacterial Blight, Leaf Rust	Foliar: 1–3 lbs.
<b>Cole Crops:</b> Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Collards, Kale	Black Rot, Downy Mildew, Powdery Mildew	Foliar: 1–3 lbs.
<b>Cotton</b>	Angular Leaf Spot	Foliar: 1–3 lbs.
<b>Cucurbit Crops:</b> Cucumber, Melons, Pumpkin, Squash	<i>Alternaria</i> Leaf Spot, Angular Leaf Spot, <i>Anthracnose</i> , Bacterial Wilt, Downy Mildew, Gummy Stem Blight, Leaf Spot, <i>Phytophthora</i> Blight/Fruit Rot, Powdery Mildew	Foliar: 1–3 lbs.
<b>Forage and Fodder Crops:</b> Alfalfa Hay, Clover, Trefoil, Lupine, Grasses	<i>Cercospora</i> Leaf Spot	Foliar: 1–3 lbs.
<b>Fruiting Vegetables:</b> Eggplant, Peppers, Tomatoes, Tomatillos	<i>Anthracnose</i> , Bacterial Spot, Bacterial Speck, Bacterial Wilt, Botrytis Gray Mold, Early Blight, Late Blight	Foliar: 1–3 lbs.
<b>Globe Artichokes</b>	Black Rot, Botrytis Blight/Gray Mold, Crown Rot, Powdery Mildew	Foliar: 1–3 lbs.
<b>Grapes</b>	Botrytis Gray Mold, Downy Mildew, Powdery Mildew, Sour Rot	Foliar: 1–3 lbs.
		Dormant: 3–4 lbs. Apply in early and late dormancy prior to bud break. Do not apply to blooming crops.
<b>Herbs and Spices:</b> Basil, Chives, Cilantro, Coriander, Dill, Mint, Rosemary, Sage	<i>Anthracnose</i> , Downy Mildew, Powdery Mildew	Foliar: 1–3 lbs. <b>Special Note:</b> For sensitive crops do not exceed concentrations greater than 1 lbs./100 gallons of water and increase spray frequency.
<b>Hops</b>	Downy Mildew, Powdery Mildew	Foliar: 1–3 lbs.
	Twospotted Spider Mite	Foliar: 6 lbs.
<b>Leafy Vegetables:</b> Arugula, Celery, Chickory Root, Endive, Fennel, Lettuce, Spinach, Rhubarb, Radicchio, Swiss Chard	<i>Anthracnose</i> , Botrytis Gray Mold, Downy Mildew, Powdery Mildew, Rust	Foliar: 1–2 lbs. <b>Special Note:</b> For sensitive crops, do not exceed concentrations greater than 1 lb./100 gallons of water and increase spray frequency.
<b>Legumes:</b> Chick Peas, Dry Beans, Lima Beans, Peas, Snap Beans, Soybeans	<i>Anthracnose</i> , Bacterial Blight, Powdery Mildew, Rust, White Mold	Foliar: 1–3 lbs.
<b>Peanuts</b>	Rust, Leaf Spot	Foliar: 1–3 lbs.
<b>Pome Fruits:</b> Apples, Pears, Loquats, Mayhaws, Quince	Cedar Apple Rust, Fire Blight, Flyspeck, Powdery Mildew, Rusts, Scab, Sooty Blotch	Foliar: 1–3 lbs.
		Dormant: 3–4 lbs. Apply in early and late dormancy prior to bud break. Do not apply to blooming crops.
<b>Root &amp; Tuber Vegetables:</b> Artichokes, Beets, Carrots, Ginseng, Horseradish, Parsnip, Potatoes, Radish, Rutabaga, Sugar Beets, Sweet Potatoes, Taro, Turnips, Yams	<i>Alternaria</i> Leaf Spot/Blight, Bacterial Leaf Spot/Blight, Early Blight, Late Blight, Leaf Spot, Powdery Mildew, Brown Rot, White Mold	Foliar: 1–3 lbs.
<b>Stone Fruits:</b> Apricots, Cherries, Nectarines, Peaches, Plums, Prunes	Botrytis Blight, Brown Rot/Blossom Blight, Cherry Leaf Spot, Leaf Spot, Powdery Mildew, Rust, Scab	Foliar: 1–3 lbs.
		Dormant: 3–4 lbs. Apply in early and late dormancy prior to bud break. Do not apply to blooming crops.

<b>Strawberries</b>	Angular Leaf Spot, <i>Anthraco</i> se, Botrytis Fruit Rot, Powdery Mildew	Foliar: 1–3 lbs.
<b>Tobacco (Field/Float Beds)</b>	Blue Mold	Foliar: 1–3 lbs.
<b>Tree Nuts:</b> Almonds, Brazil Nuts, Cashews, Filberts, Macadamias, Pecans, Pistachios, Walnuts	<i>Alternaria</i> Leaf Spot/Blight, <i>Anthraco</i> se, Brown Rot, Bacterial Blight, Bacterial Canker, Jacket Rot, Walnut Blight, Leaf Spot, Leaf Blight, Filbert Blight, Powdery Mildew, Botryosphaeria Blight, Phomopsis Blight, Rust, Scab	Foliar: 1–3 lbs. Dormant: 3–4 lbs. Apply in early and late dormancy prior to bud break. Do not apply to blooming crops.
<b>Tropical Fruit:</b> Avocado, Casaba, Coconut, Dates, Guava, Kiwi, Mango, Papaya, Passion Fruit, Poi, Star Fruit	<i>Alternaria</i> , <i>Anthraco</i> se, Bacterial Leaf Spot, Black Spot, Leaf Blight, Powdery Mildew, Sooty Mold	Foliar: 1–3 lbs.

**OTHER USES:**

Plant	Diseases	Rate – Lbs. per 100 gallons of water
<b>Hemp</b>	<i>Anthraco</i> se, Bacterial Leaf Spots, Botrytis Blight/Gray Mold, Fusarium Foliar/Flower Blight, Fungal Leaf Spots, Hemp Canker, Powdery Mildew, Rust, Stem Canker	Foliar: 1–3 lbs.

**FOR USE ON ORNAMENTALS:** Use PerCarb as a contact foliar fungicide/bactericide to treat and control plant pathogenic diseases on greenhouse, lathhouse, shadehouse, commercial and residential landscapes, interiorscapes, nursery, container production and field applications.

**If produced outdoors:** Prepare a solution by mixing 1-3 lbs. per 100 gallons of water. Use PerCarb as a contact foliar fungicide/bactericide to treat and control plant pathogenic diseases on bedding plants, flowering plants, foliage plants, nursery stock, roses, container plants, azaleas, rhododendrons, conifers, shade trees, woody and herbaceous ornamentals ornamental shade and fruit and nut trees, greenhouse grown fruits, vegetables and other crops.

**If produced indoors:** Prepare a solution by mixing 1.5-4.8 oz. (3-10 tbsp.) of PerCarb per 10 gallons of water (1-3 lbs. per 100 gallons of water).

Good coverage and wetting of the foliage are necessary and required. PerCarb may be applied up to and including the day of harvest.

**FOR USE ON GREENHOUSE/INDOOR-GROWN CROPS:** Use PerCarb on the following greenhouse/indoor crops: **Small Fruits:** Blackberries, Blueberries, Raspberries, Strawberries; **Citrus Crops:** Citrus Hybrids, Grapefruit, Kumquat, Lemon, Limes, Orange, Tangerine; **Herbs & Spices:** Basil, Chives, Cilantro, Coriander, Dill, Mint, Oregano, Rosemary, Sage; **Cucurbit Crops:** Cucumber, Melons; Fruiting Vegetables: Eggplant, Peppers, Tomatoes, Tomatillos; **Leafy Vegetables:** Lettuce, Microgreens; **Miscellaneous Crops:** Tobacco, Hops and Herbs.

**Other Uses:** Hemp

**PerCarb controls the following diseases:** *Alternaria* Blight, *Anthraco*se, Blackspot, Botrytis Blight, Botrytis Gray Mold, *Cercospora* Leaf Spot, *Corynespora* Leaf Spot, Downy Mildew, *Erwinia*, *Monilinia* spp., *Penicillium* spp. Phomopsis Blight, Powdery Mildew, *Pseudomonas*, Rust, *Rhodococcus*, Scab, Septoria Leaf Spot, *Xanthomonas*.

PerCarb may be applied up to and including the day of harvest.

**APPLICATION INSTRUCTIONS:** Apply using backpack, hand-held, high volume, and boom or ground sprayer. For best results, use a properly calibrated sprayer or similar equipment. Check equipment and calibrate frequently.

PerCarb works by surface contact with the plants and materials being treated. It is important to ensure that all surfaces are thoroughly wet. PerCarb does not produce a distinct odor or deleterious effects to plants when used in accordance with label directions. Do not use at stronger than recommended rates, as leaf burn may result.

Prepare a solution by mixing 1.5-4.8 oz. (3-10 tbsp.) of PerCarb per 10 gallons of water (1-3 lbs. per 100 gallons of water). Use 10 gallons of spray solution to treat up to 1,000 sq. ft. Refer to Application Rate Chart, below.

For the most effective results, use a sufficient volume of spray solution to obtain complete and uniform coverage of foliage and stems. Spray solution volume per unit area will vary depending on crop type and stage of development.

**Foliar Application Rates**

Amount of PerCarb	Volume of water	Treatment Area
1.5-4.8 oz. (3-10 tbsp.)	10 gallons	500-1,000 sq. ft.
1-3 lbs. (2-6 cups)	100 gallons	5,000-10,000 sq. ft.
4-12 lbs. (8-24 cups)	400 gallons	0.5-1 acre

**Special Instructions for Bedding Plants and other Sensitive Species:** For sensitive species and bedding plants, such as impatiens and pansies, use the low rate of 1.5 oz./10 gallons of water per 1,000 sq. ft. and increase spray frequency. Discontinue applications when blossom buds become visible.

**Special Instructions for Poinsettia:** Use the low rate of 1.5 oz./10 gallons of water per 1,000 sq. ft. weekly during vegetative growth prior to bract formation.

- Do not apply this product through any type of irrigation system.
- Do not apply directly to soil as a directed spray or drench.

**TURF TREATMENT**

**FOR USE ON TURF GRASSES:** Apply PerCarb to well-established lawns (at least one growing season old), golf course fairways, greens, and tees to control/suppress algae, moss, liverwort(s), nostoc algae, cyanobacteria, bacteria, slime molds, bacterial and fungal diseases on turf, and the conditions that these organisms may cause.

**FOR USE AS A TREATMENT FOR ALGAE, MOSS AND SLIME MOLD:** Use PerCarb for the prevention and control of algae, fungi, moss, slime molds and their spores on well-established (at least one growing season old), lawns, golf course fairways, greens, tees turf and golf greens.

**FOR USE AS A TREATMENT FOR TURF DISEASE:** Use PerCarb for the prevention and control of Snow Mold, Brown Patch, *Anthraco*se, Yellow Tuft, Summer Patch, Fairy Ring, Dollar Spot, *Pythium*, and *Phytophthora* on well-established (at least one growing season old) lawns, golf course fairways, greens and tees.

**APPLICATION INSTRUCTIONS:** The best time of year to apply PerCarb for curative applications is either the spring or fall when temperatures are 50°F or above. During summer months, use PerCarb for spot treatments.

**Liquid Directions:** Make a liquid solution of PerCarb by diluting ½ lb. per one (1) gallon of water. (Dissolution of PerCarb in cold water will take approximately 5 minutes). Spray evenly over area to be treated. Make subsequent applications by diluting ¼ lb. of PerCarb per one (1) gallon of water. PerCarb may be applied in the same area up to 3 consecutive days. Repeat treatment when disease reappears. The optimum application time is early morning or late afternoon.

Mix PerCarb only with water, and at the recommended rates. Do not mix PerCarb with any other substances.

**Activate PerCarb with water immediately following application (see Application Rate Table). Water to specified amount, or for at least 10 minutes.**

When making subsequent applications, apply 2-4 lbs. of PerCarb per 1,000 square feet. Repeat applications when algae, moss, or slime molds reappear. PerCarb can be applied in the same area up to 3 consecutive days. The optimum application time is early morning or late afternoon.

During summer months, use PerCarb for spot treatments. For spot treatments apply PerCarb directly to diseased area.

**FOR USE ON ARTIFICIAL TURF:** Use PerCarb for the prevention and control of algae, fungi, moss, slime molds and their spores. Make a liquid solution of PerCarb by diluting ½ lb. of the granular for each gallon of water. (Dissolution of PerCarb in cold water will take approximately 5 minutes). Spray evenly over area to be treated. Allow to thoroughly dry before use. Repeat treatment if disease reappears.

#### SOIL SURFACES CONTAINING GROWING PLANTS

Apply PerCarb to soil surfaces for the prevention and control of algae, nostoc algae, cyanobacteria, bacteria, moss, liverworts, slime molds and their spores. Use in containers and planters for ornamental plants.

**FOR USE ON NURSERY CONTAINER PLANTS AND TREES:** Use PerCarb on the soil surface of container-grown plants and trees. PerCarb works by surface contact.

#### APPLICATION INSTRUCTIONS:

**Liquid Directions:** For Preventative Treatments: Mix ¼ lb. of PerCarb per gallon of water, spray at a rate of three gallons per 1,000 sq. ft. of plant area. For Curative Treatments: Mix ½ lb. of PerCarb per gallon of water.

**NOTE:** Do not apply any supplements to the soil to be treated containing elemental iron, manganese, zinc or biological agents 24 hours prior to the application of PerCarb.

1. Make a liquid solution by diluting ¼-½ lb. of PerCarb for each gallon of water. Spray evenly over entire container soil area to be treated. (Dissolution of PerCarb is faster in warm water).
2. Spray 3 gallons of solution per 1,000 sq. ft. of plant area.
3. Treat the entire area for best results.

**NOTICE:** A broad spectrum of plant and turf species have been found to tolerate PerCarb however, due to the large number of species and varieties of ornamental plants and turf, it is impossible to test every one for tolerance to PerCarb. Neither the manufacturer nor the seller has determined whether PerCarb can be used on all known species of plants and turf. Therefore, test a small section at labeled rates for phytotoxicity prior to widespread use. Repeat applications can raise soil pH to levels that can adversely affect plant growth. PerCarb is incompatible with metal-based fungicides and fertilizers. **Do not apply PerCarb within three days of metal-based fungicides or fertilizer applications.**

#### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in original container in a cool, well-vented

area, away from direct sunlight. Do not allow product to become overheated in storage. This may cause increased degradation of the product, which will decrease product effectiveness. In case of spill, flood area with large quantities of water. Do not store in a manner where cross-contamination with other pesticides or fertilizers could occur.

**PESTICIDE HANDLING:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Open dumping is prohibited. If wastes cannot be disposed of according to label directions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

**CONTAINER HANDLING: Plastic Containers, All sizes:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water and recap. Shake or stir for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling if available or dispose of in trash, or in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**Bags/Sacks:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Completely empty sack [bag] into application equipment. Then dispose of empty sack [bag] in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

#### CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. To the extent consistent with applicable law, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of BIOSAFE SYSTEMS LLC or Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold BIOSAFE SYSTEMS LLC and Seller harmless for any claims relating to such factors.

BIOSAFE SYSTEMS LLC warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above when used in accordance with directions under normal use conditions. To the extent consistent with applicable law, this warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or BIOSAFE SYSTEMS LLC, and Buyer and User assume the risk of any such use. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BIOSAFE SYSTEMS LLC MAKES NO WARRANTIES OF MERCHANTABILITY FOR A PARTICULAR PURPOSE, NOR ANY OTHER EXPRESSED OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

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For additional information on PerCarb®, call us toll-free: 1-888-273-3088 or visit us at [www.BioSafeSystems.com](http://www.BioSafeSystems.com).

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