



KEEP OUT OF REACH OF CHILDREN Precautionary statements Hazards to humans & domestic animals

WARNING: Causes substantial but temporary eye injury and skin irritation. Do not get in eyes, on skin or clothing. Wear goggles or face shield. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Handlers who may be exposed to the diluted product through application or other tasks must wear:

- · Long-sleeved shirt and long pants
- · Shoes plus socks

Handler's who may be exposed to the concentrate through mixing, loading, application, or other tasks must wear:

- · Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves such as barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, polyvinyl chloride (PVC) ≥ 14 mils or viton ≥ 14 mils
- · Chemical-resistant footwear plus socks
- · Protective eyewear
- · Chemical-resistant headgear for overhead exposure
- · Chemical-resistant apron when cleaning equipment, mixing or loading

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

User Safety Recommendations

Users should:

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

This product may be hazardous to aquatic invertebrates. Do not apply directly to water, to areas where surface water is present, or to interlidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

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. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

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, 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) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry into treated areas that is permitted under the Worker Protection Standard and involves contact with anything that has been treated such as plants, soil, or water, is:

- Coveralls
- Chemical-resistant gloves such as barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, polyvinyl chloride (PVC) ≥ 14 mils or viton ≥ 14 mils
- · Shoes plus socks

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.

Do not enter or allow people (or pets) to enter the treated area until sprays have dried.

USE INFORMATION

Apply this product to foliage as a contact insecticide, miticide and fungicide for control of soft-bodied insects, mites and powdery mildew. The formulation is based on potassium salts of naturally derived fatly acids. This product may be used to control targeted pests on crops which include vegetables, tobacco, and flowering plants growing outdoors, in greenhouses and in interiorscapes. This product can be applied up to harvest.

PESTS CONTROLLED

This product may be used only as a foliar spray to control or suppress soft bodied pests which include: aphids, caterpillars, leathoppers, leatminers, mealybugs, plant bugs, sawfly larvae, scales, spider miles, thrips and whiteflies. This product is most effective on miles, aphids and whiteflies. Effects on other pests are limited to early growth stages and eggs. This product provides curative control of powdery mildew.

MIXING AND APPLICATION RATES

Stand Ålone Rate: This product rates as low as 0.25% v/v or as high as 4% v/v may be used. The 2% v/v rate is the most frequently used stand alone rate.

- · Refer to individual sections of this label for specific use rates for control of pests on specific crops.
- Rates are provided as a % volume/volume (v/v) solution. A 2% solution is prepared by adding 2 gallons of this product to 98 gallons of spray water.

The activity of this product is directly related to the solution concentration and to contact with the
pest, not the amount of product applied per acre.

Tank Mix Rate: To achieve enhanced and residual pest control, use a 1 to 2% v/v solution of this product in combination with a specified product.

Total Mix Volume		Amount of this product		
	% v/v Solution	English	Metric	Tablespoons
1 gallon (3.785 liters)	0.25	0.315 fl oz	9.5 ml	0.63
	0.5	0.63 fl oz	19 ml	1.25
	1.0	1.25 fl oz	38 ml	2.4
	1.5	2.0 fl oz	57 ml	3.75
	2.0	2.5 fl oz	76 ml	5
	4.0	5 fl oz	152 ml	10
100 gallon (378.5 liters)	0.25	0.25 gal	0.95 liters	-
	0.5	0.5 gal	1.9 liters	-
	1.0	1 gal	3.8 liters	-
	1.5	1.5 gal	5.7 liters	-
	2.0	2 gal	7.6 liters	-
	4.0	4 gal	15.1 liters	-

RATE TABLE

Mixina

- Always determine the compatibility of water, pesticides and other tank additives with this product prior to addition to the spray tank. Determine compatibility by conducting a jar test using proportional quantities of each material.
- Use freshly mixed spray made with soft water. If water has high mineral content (hardness >300) ppm or 17.5 grains/gallon), check for compatibility as described above. If needed, add an approved compatibility agent to the tank prior to the addition of this product. Do not lower the pH of the final sprav mixture below 8.0. See notes to User: Understanding Plant Sensitivity.
- A defoaming agent may be needed for use in sprayers equipped with an agitator.
- This product is compatible with other labeled pesticides. However, when tank mixing this product with other products, a compatibility test (jar test) using relative proportions of the tank mix ingredients should be conducted prior to mixing ingredients in the spray tank. When tank mixing, read and carefully follow all applicable use directions, precautions, and limitations on the respective product labels. In interpreting all labels for the tank mix, the most restrictive situations must apply.
- Unless otherwise noted, do not tank mix this product with adjuvants such as penetrators, spreader stickers or activators, gibberellic acid, calcium nitrate, or diatomaceous earth, foliar nutrients, alkaline based chelating agents (such as EDTA), Aliette® fungicide, chlorothalonil and pesticides containing sulfur or metallic ions (such as manganese, magnesium, iron, zinc, etc.) as they may be physically incompatible and/or phytotoxic.
- Do not mix this product with Carzol® insecticide as they are not physically compatible.
- Do not mix this product with sulfur. Do not use within 3 days of a sulfur application.

When using this product in a tank mix, read and follow all product labels. The order of mixing is:

- Compatibility agent (if needed)
 Wettable and soluble powders
 Flowable liquids

- Emulsifiable oils and concentrates
- GENERAL HYDROPONICS EXILE INSECTICIDE / FUNGICIDE / MITICIDE

Application of spray mixtures should conform to use precautions and directions for all products included in the tank mix. Combinations should be kept agritated and sprayed promptly after mixing.

Timing of Application

 Initiate applications as soon as pest is observed, or as needed to avoid economic iniury. Repeat applications at one-week intervals, or as needed, to control infesting or increasing pest populations.

. Do not make repeat applications at less than 7-day intervals, or make more than 3 sequential applications at 7- to 14-day intervals unless your experience has shown the use pattern to be non-injurious to the type and the development stage of plant(s) to be treated under local growing conditions

Application Guidelines

- This product may be applied with most types of ground spray equipment. Do not apply through any type of hydroponic systems. Do not use with pulse or thermal fogger applicators. Do not apply through any type of irrigation system.
- This product must come into confact with the targeted soft-bodied pests or powdery mildew to be
 effective. Complete coverage of pests is essential for maximum control. Direct sprays to contact the
 pests. In general, adequate coverage requires a minimum of 50 gallons of total spray volume per
 acre. Higher volumes may be required on larger perennial crops.
- Apply this product solutions to wet (minimize run-off) to decrease the potential for injury on foliage, fruit and flowers of sensitive plants.
- Apply promptly after mixing with other pesticides to avoid or reduce alkaline hydrolysis of certain pesticides.
- · Avoid applications when wind conditions impair thorough coverage.
- Avoid applications on new transplants and unrooted cuttings.

Notes to User: Understanding Plant Sensitivity

- Sensitivity of plants to this product can be influenced by several factors which include: pest and disease pressure, cultivar, plant vigor, environmental conditions (temperature, relative humidity, moisture availability, light intensity, etc.), spray concentration, companion products, spray additives, pH of spray mixtures, delivery volume as well as the timing, number and frequency of applications.
- Potential for plant injury increases when this product is used under the following conditions: o Plants are stressed, such as under hot (>90°F), humid and/or drought conditions. o More than 3 sequential annications are made at 7-day intervals.
 - o The pH of the final spray mixture is lowered below 8.0.
 - High volume applications cause the spray to collect on the bottom of fruit such as apple, pear, nectarine, orange and grape.
 - o Tender new foliage is present on narrow leaf evergreen trees and shrubs.
 - o When existing insect, mite or disease pressure has already stressed plant foliage or damaged fruit (for example, mite burn on leaves).
- Application of this product may alter the appearance of the glaucous bloom on spruces and the waxy bloom on grapes.
- Evaluate the effect of this product alone or in combination with desired companion product(s) on a few test plants prior to full scale applications when sensitivity of plant species or cultivars under local use conditions is unknown.
- Do not apply to very sensitive plants such as: horse chestnut, Japanese maple, mountain ash, Cherimoya, bleeding heart or sweetpeas.

 The following plants may be sensitive to this product: bald cypress, begonia, chrysanthemum, Crown of Thorns and other Euphorbia, cucumber, delicate ferns, narrow leaf evergreens (especially when stressed or when tender new growth is present), Dieffenbachia, fuschia, gardenia, impatiens, jade plant, lantana, orramental ivy, pants prior to broad scale applications when sensitivity under local use conditions is unknown.

 Flowers of plants including African violet, ageratum, azalea, begonia, camellia, chrysanthemum, dahlia, geranium, gloxinia, impatiens, lily, marigold, orchid, pansy, petunia, poinsettia bracts, rose, salvia, snapdragon, vinca and zinnia may be injured when sprayed with this product.

 Safety to blooms should be determined for each individual cultivar of plant to be treated by conducting a small test under local use conditions.

Insecticidal / Miticidal and Fungicidal Uses

This product may be used as a foliar spray to control or suppress soft bodied pests which include: aphid, leafhopper, mealybug, plant bug, sawfly larvae, scales, spider mite, thrips and whitefly.

Preharvest Interval

This product has a 0-Day Preharvest interval for ALL crops contained on this label.

Vegetables, Herbs And Spices (Greenhouse and Outdoor)

Vegetables:

Fruiting (such as: eggplant, pepper and tomato), Leafy (such as: celery, endive, escarole, lettuce and spinach), Herbs and spices: (such as: basil, chive, dill, marjoram, parsley and sage).

Use Rates:

Stand Alone Rate: Apply a 1-2% v/v solution of this product, unless otherwise noted. Refer to the Mixing and Application section of this label for rates, timing and application information except as noted below.

Pest	Requirements
Leafminers and Green peach aphids	Apply this product only in tank mix combination with a labeled companion insecticide.
Other aphids	To achieve enhanced and residual pest control, use a 1-2% v/v solution of this product in combination with a specified rate of another labeled product. Consult your local extension specialist, certified crop advisor, and/or manufacturer representative for specific product recommendations.

Vegetables, Herbs And Spices (Greenhouse and Outdoor) cont.		
Pest	Requirements	
Whiteflies	Apply a 1-2% v/v solution of this product for stand-alone use. To achieve enhanced and residual pest control, use a 1-2% v/v solution of this product in combination with a specified rate of another labeled product. Consult your local extension specialist, certified crop advisor, and/or manufacturer representative for specific product recommendations.	
Thrips, Plant bugs, Spider mites, Broad mites, Russet mites and Leafhoppers	See Mixing and Application section of this label for information on rates, mixing and application.	
Powdery mildew	Fruiting Vegetables, Herbs and Spices, Leafy Vegetables Stand Alone Rate: Apply a 1.5-2% v/v solution of this product when the first signs of powdery mildew appear and regetal at 7 to 10 day intervals, or as needed. Schedule a tollow-up fungicide application within 7-10 days after each application when this product is used alone. Tank Mix Rate: Apply a 1-2% v/v solution of this product with GENERAL HYDROPONICS DEFGUARD BIOFUNGICIDE/BAC TENKIDE to powdery mildew. For additional instructions, see Application Guidelines and Notes to User: Understanding Plant Sensitivity sections of this label.	

Field Crops

Tobacco*

* Not approved for use in California

Pests Controlled: Aphids, caterpillars (in tank mix combination only), exposed thrips, greenbugs, plant bugs (such as lygus and stink bugs), spider mites and whiteflies. Use Rates: Refer to the Mixing and Application section of this label for rates, timing and application information except as noted below.

Stand Alone Rate: Use 4 pints of this product per acre when applications are made in 3 - 25 gallons of water per acre. Use a 2% v/v spray solution of this product when 25 or more gallons of water are applied per acre.

Tank Mixtures:

- When used in combination with other insecticides, use 0.75 to 4 pints of this product per acre when applied in 3 - 25 gallons of water per acre. Use a 1 - 2% v/v solution of this product when greater than 25 gallons of water are applied per acre.
- To achieve enhanced and residual control of caterpillars, use this product in combination with other labeled insecticides.
- To achieve enhanced and residual control of other insects (aphids, thrips, greenbug, plant bug, spider mite, white fly), use this product in combination with other labeled insecticides.
- In situations where through coverage of pests is not possible or practical, this product may be tank mixed with one of the companion pesticides listed above.
- This product may be tank mixed with penetrator type adjuvants for application to tobacco only if
 prior use under local use conditions has demonstrated plant safety.

Hops*

* Not approved for use in California

Pests Controlled: Aphids, leafhoppers, mealybugs, spider mites, plant bugs, scales, exposed thrips and whiteflies.

USE RATES:

Stand Alone Rate: Apply a 1 - 2% V/v solution of this product, unless otherwise noted. Refer to the Mixing and Application section of this label for rates, timing and application information except as noted below.

Tank Mix Rates:

To achieve enhanced and residual pest control, use a 1 to 2% v/v solution of this product in combination with a companion product.

- Use a 1% v/v rate with most companion pesticides targeted at the same pest(s) as this product.
- Lower rates (0.25 -1.0 % v/v solution) of this product maybe used in tank mixes for knockdown/suppression of adult whiteflies.

See Application Guidelines and Notes to User: Understanding Plant Sensitivity for additional comments.

Flowers, Bedding and Indoor Plants

Pests Controlled: aphids, sawfly larvae, leafhoppers, mealybugs, rust mites, spider mites, plant bugs, scales, exposed thrips, whitefly and powdery mildew.

Use Rates:

Stand Alone Rate: Apply a 1 -2% v/v solution of this product, unless otherwise noted. Refer to the Mixing and Application section of this label for rates, timing and application information except as noted below.

Tank Mix Rate:

To achieve enhanced and residual pest control, use a 1 to 2% v/v solution of this product in combination with a recommended product. Tank mixes with products containing Chlorothalonil should be avoided as they can cause severe phytotoxicity. Lower rates (0.25 - 1.0% v/v solution) of this product may be used in tank mixes for knockdown/suppression of adult whiteflies

Note: Unless otherwise noted, apply this product to wet (minimize run off). If wilting occurs a few hours after application, rinse with a clean water spray. Since applications may cause injury to flowers of some plant cultivars, test product on a few flowering plants under local use conditions prior to large scale use.

Flowers, Bedding and Indoor Plants (cont.)		
Pest	Requirements	
Spider mite	Wet underside of leaves. Wait 7-10 days to allow viable eggs to hatch and make a second application before mites reach egg laying maturity. For residual control, apply in a tank mix combination with a labeled companion product such as Avid®.	
Leafminer (Dipteran)	Apply in tank mix combination with a labeled companion insecticide such as Avid® which has residual activity.	
Whiteflies	Scout plants regularly and apply a 1 to 2% V/ solution when pests first appear. Make a second application 7-days later to target newly hatched nympts. Make additional applications at weekly intervals, but avoid more than three consecutive weekly applications. Do not apply to poinsettia bracts. Lower rates (0.25 - 1% v/v solution) of this product may be used in tank mixes for knockdown/suppression of adult whitefilies.	
Blossom thrips on African violets	Spray to contact thrips on blooms.	
Powdery mildew on greenhouse grown roses	Apply a 1-2% solution of this product to control powdery mildew spores and hyphae. Initiate sprays when first signs of powdery mildew appear and repeat at 7 to 10 day intervals, or as needed. Alternate applications of this product with other fungicides to avoid making more than three successive applications of this product at intervals of 7-days or less. Roses may be treated with sublimated sulfur using sulfur-heating pols or similar devices before or after treatment with this product. To minimize the potential for plant injury, allow 24 hours to elapse between this product and sublimated sulfur applications. Mixing other forms of sulfur (sprayable or dusting) or applying this product within up to 5 days of a sulfur application may also increase the potential for plant injury, especially during hot weather (>90°F).	

Storage and Disposal

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

Pesticide Storage: Store only in original container; in a dry place; inaccessible to children and pets. Keep container tightly sealed when not in use.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Handling: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authority. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake 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.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the low begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drian for 10 seconds after the flow begins to drip.

WARRANTY INFORMATION

General Hydroponics warrants that the material contained herein conforms to the description on the label and is reasonably fit for the purpose referred to in the directions for use. Timing and method of application, weather, watering practices, nature of soil, the disease problem, condition of the plant, incompatibility with other influencing factors in the use of this product are beyond the control of the seller. To the extent consistent with applicable law, buyer assumes all risks of use, storage, or handling of this material not in strict accordance with directions given herein. NO OTHER EXPRESS OR IMPLIED WARRANTY OF THE FITNESS OR MERCHANTABLITY IS MADE.

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Our directions for use of this product are based on tests believed to be reliable. However, it is impossible to eliminate all risk associated with the use of this product. Crop injury, inadequate performance, or other unintended consequences may result due to soil or weather conditions, off target movement, presence of other materials, method of use or application, and other factors, all of which are beyond the control of General Hydroponics. To the extent consistent with applicable law, all such risks are assumed by the Buyer and User.

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