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GROUP	BM 02	FUNGICIDE
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## RootShield® HC - Biological Fungicide Wettable Powder

*For the Suppression of Root rot caused by Pythium spp., Rhizoctonia spp. and Fusarium spp. in Greenhouse Crops, Greenhouse Vegetable Transplants, Greenhouse Vegetables, Outdoor Nursery Plants, Agricultural Field Crops, Greenhouse and Field Herbs, Field Spices, Hops, Ginseng, Cannabis (marihuana) produced commercially indoors, Field-Grown Cannabis, and Field-Grown Hemp; Foliar Diseases caused by Botrytis cinerea in Greenhouse Crops, Greenhouse Crop subgroup 13-07A: Caneberries, Greenhouse Vegetable Transplants, Greenhouse and Field Vegetables, Greenhouse and Field Herbs, Field Spices, Greenhouse Ornamentals, Outdoor Nursery Plants, Strawberry, Lettuce, Geranium, Ginseng, Bushberries, Cannabis (marihuana) produced commercially indoors, Field-Grown Cannabis, and Field-Grown Hemp*

COMMERCIAL

### READ THE LABEL BEFORE USING

ACTIVE INGREDIENT *Trichoderma harzianum* Rifai strain KRL-AG2 contains a minimum of 1.0 x 10<sup>7</sup> colony forming units per gram of dry weight

Warning, contains the allergens wheat and sulfites

POTENTIAL SENSITIZER

LIVE ORGANISMS

REGISTRATION No. 27115 PEST CONTROL PRODUCTS ACT

NET CONTENTS: 0.453 – 90.9 kg

Manufactured and Distributed by BioWorks, Inc. 100 Rawson Road, Suite 205, Victor, NY 14564  
Telephone: 1-800-877-9443

Lot No.:

Date of Manufacture: Use within 12 months of date of manufacture.

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**GENERAL INFORMATION:** RootShield® HC - Biological Fungicide Wettable Powder is a biological fungicide for the suppression of root or foliar diseases in greenhouse crops, greenhouse vegetable transplants, outdoor nursery plants, agricultural field crops, strawberries, lettuce, hops ginseng, *Cannabis* (marihuana) produced commercially indoors, field-grown cannabis, and field-grown hemp. The active ingredient is a beneficial microbe *Trichoderma harzianum* strain T-22 (KRL-AG2). When applied to seeds, transplants, greenhouse planting mix or soil, RootShield® HC - Biological Fungicide Wettable Powder actively grows onto plant roots as they develop and protects roots against *Pythium*, *Rhizoctonia* and *Fusarium*. As a foliar application, RootShield® HC - Biological Fungicide Wettable Powder also suppresses *Botrytis cinerea*.

RootShield® HC - Biological Fungicide Wettable Powder can be used alone or in conjunction with certain chemical fungicides; contact manufacturer or distributor for compatibility Technical Bulletin.

For control of seed rot and damping off of internally infected cuttings, use chemical fungicides or other appropriate measures in addition to RootShield® HC - Biological Fungicide Wettable Powder.

**Note:** RootShield® HC - Biological Fungicide Wettable Powder contains live spores of a beneficial microbe. RootShield® HC - Biological Fungicide Wettable Powder becomes active when soil temperatures are above 10 degrees C. Control is not effective while soils remain cold and is more effective in neutral or acidic soils than in alkaline soils.

#### **DIRECTIONS FOR USE:**

**DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.**

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

#### **DRENCH APPLICATION TO POTTING MIX OR SOIL**

*Greenhouse Peppers, Tomatoes, and Cucumbers*

*Greenhouse Ornamental Crops*

*Greenhouse Vegetable Transplants*

*Greenhouse and Field Herbs*

*Field Spices*

*Asian water spinach (tung choy, kankon, rao muong)*

*Outdoor Nursery Crops*

*Hops*

*Ginseng*

*Cannabis (Marihuana) produced commercially indoors*

*Field-grown cannabis*

*Field-grown Hemp*

**POTTING MIX:** Suspend RootShield® HC - Biological Fungicide Wettable Powder in sufficient water (e.g. 30-45 g/100L) to achieve uniform application and apply at the rate of 55-110 g per cubic metre (loose) of greenhouse potting mix, soil or planting beds. Within the stated rate range, use higher rates when conditions favour disease development or high disease pressure is anticipated. RootShield® HC - Biological Fungicide Wettable Powder can be applied through low pressure watering nozzles such as fan nozzles or other watering systems. Agitate to maintain suspension.

*Cannabis (marihuana) produced commercially indoors, field-grown cannabis, and field-grown hemp:* RootShield HC is applied to potting mix or soil as a drench prior to planting.

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### **NURSERY DRENCH:**

Suspend RootShield® HC - Biological Fungicide Wettable Powder in sufficient water (eg. 30 – 45 g/100 L) to achieve uniform application and apply at the rate of 55 – 110 g per cubic metre (loose) of nursery potting mix, soil or planting beds. Within the stated rate range, use higher rates when conditions favour disease development or high disease pressure is anticipated. RootShield® HC - Biological Fungicide Wettable Powder can be applied through low pressure watering nozzles such as fan nozzles or other watering systems. Agitate to maintain suspension.

*Ginseng, Hops:* Suspend RootShield® HC - Biological Fungicide Wettable Powder in 1,000 litres of water and apply at the rate of 3-4 kg per hectare to the soil surface immediately around the plants. Within the stated rate range, use higher rates when conditions favour disease development or high disease pressure is anticipated. Sufficient irrigation or rainfall of at least 5 mm should occur within 24 hours after application to move the active ingredient into the root zone. Agitate to maintain suspension.

### **DIP APPLICATION**

*Bulbs: All Ornamental Crops*

Dip bulbs in suspension of 60 g/L RootShield® HC - Biological Fungicide Wettable Powder prior to planting.

### **FOLIAR APPLICATION:**

RootShield® HC should be applied preventatively prior to onset of disease.

*Greenhouse Vegetable Transplants:* For suppression of *Botrytis cinerea*, apply 10 grams per liter of water to foliage every 7-14 days depending upon disease pressure.

*Strawberry (Greenhouse and Field):* For suppression of *Botrytis cinerea* on strawberry, apply 10 grams per liter of water to foliage and blossoms every 7-14 days depending upon disease pressure.

*Lettuce (Greenhouse and Field):* For suppression of botrytis blight (*B. cinerea*), apply 10 grams per liter of water to foliage every 7-14 days depending upon disease pressure.

*Ginseng:* For suppression of *Botrytis cinerea*, apply RootShield® HC - Biological Fungicide Wettable Powder at 10 kg per hectare in a spray volume of 1,000 litres of water per hectare to foliage every 7-14 days depending upon disease pressure. Apply prior to disease establishment, when conditions favour disease development. Apply enough volume to thoroughly cover plant above-ground surfaces without runoff.

*Bushberry (Crop Group 13-07B):* For suppression of *Botrytis cinerea* on bushberry, apply 10 grams per liter of water to foliage every 7-14 days depending upon disease pressure. Crop size, spray equipment and local practice will determine the volume of water needed. Apply prior to disease establishment, when conditions favour disease development. Apply enough volume to thoroughly cover foliage without runoff.

*Fruiting Vegetables: (Greenhouse and Field):* For suppression of *Botrytis cinerea* apply 3.75-7.5 grams per liter of water to foliage every 7-14 days depending upon disease pressure.

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*Herbs CG25<sup>1</sup>: (Greenhouse and Field):* For suppression of *Botrytis cinerea* apply 3.75-7.5 grams per liter of water to foliage every 7-14 days depending upon disease pressure.

*Spices CG26<sup>2</sup>: (Field):* For suppression of *Botrytis cinerea* apply 3.75-7.5 grams per liter of water to foliage every 7-14 days depending upon disease pressure.

*Cucurbit vegetables (Greenhouse and Field):* For suppression of *Botrytis cinerea* apply 3.75-7.5 grams per liter of water to foliage every 7-14 days depending upon disease pressure.

*Crop Subgroup 13-07A<sup>3</sup>: Caneberries (Greenhouse):* For suppression of *Botrytis cinerea* apply 3.75-7.5 grams per liter of water to foliage every 7-14 days depending upon disease pressure.

*Greenhouse and Outdoor Ornamental Crops:* For suppression of *Botrytis cinerea* on ornamental crops apply 7.5 grams per liter of water to foliage every 7-14 days.

*Cannabis (marihuana) produced commercially indoors, Field-Grown Cannabis and Field-Grown Hemp:* For suppression of botrytis blight (*Botrytis cinerea*), apply 3.75 - 10 grams per liter of water to foliage every 7-14 days depending upon disease pressure.

*Asian water spinach (tung choy, kankon, rao muong):* For suppression of *Botrytis cinerea*, apply 3.75 - 10 grams per liter of water to foliage every 7-14 days depending upon disease pressure.

It is not possible to test all ornamental varieties, and some may show delayed growth. RootShield® HC - Biological Fungicide Wettable Powder should first be tested on small lot of plants, if the response of the variety is not known, before using it for commercial scale production.

## SEED TREATMENT (ONSITE APPLICATION TO SEED)

*Pea, Lima Bean, Bean, Lentil, and Soybean*

RootShield® HC - Biological Fungicide Wettable Powder is applied to seeds at the rate of 60 - 125 grams per 50 kg of seed for protection against root rot. To assure uniform application, add half the required amount of RootShield® HC - Biological Fungicide Wettable Powder to half the seed in the hopper, mix with a wooden paddle, and then add the remaining seed and RootShield® HC - Biological Fungicide Wettable Powder. RootShield® HC - Biological Fungicide Wettable Powder can be applied in sufficient water to coat seeds. [4 oz/100 lb seed (cwt) = 125 g/50 kg of seed]

DRENCH APPLICATION TO POTTING SOIL OR MIX			
Crops	Disease suppressed	Rate	Spray concentration or volume
<b>Greenhouse Ornamental Crops</b>	<b>Root rot</b> ( <i>Pythium</i> spp., <i>Rhizoctonia</i> spp., <i>Fusarium</i> spp.)	55 - 110 g/m <sup>3</sup>	30 - 45 g/100 L
<b>Outdoor Nursery Crops</b>			
<b>Greenhouse Vegetable Transplants</b>			
Bulb vegetables			
Leafy vegetables			
Brassica vegetables			
Fruiting vegetables			
Cucurbit vegetables			
Herbs			
<b>Greenhouse Peppers, Tomatoes and Cucumbers</b>			
<b>Greenhouse and Field Herbs (CG 25<sup>1</sup>)</b>			
<b>Field Spices (CG 26<sup>2</sup>)</b>			
<b>Greenhouse/Indoor-Grown and Field-Grown Cannabis</b>			

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<b>Field-Grown Hemp</b>			
<b>Asian water spinach</b> (tung choy, kankon, rao muong)			
<b>Ginseng</b>	<b>Root rot</b> ( <i>Pythium</i> spp., <i>Rhizoctonia</i> spp., <i>Fusarium</i> spp.)	3 - 4 kg/ha	1000 litres/ha
<b>Hops</b>			

<b>FOLIAR APPLICATION</b>			
<b>Crops</b>	<b>Disease suppressed</b>	<b>Rate</b>	<b>Days between application</b>
<b>Greenhouse Vegetable Transplants</b> Bulb vegetables Leafy vegetables Brassica vegetables Fruiting vegetables Cucurbit vegetables Herbs	<b>Botrytis blight</b> ( <i>Botrytis cinerea</i> )	10 g/L	7 - 14 days
<b>Strawberry</b> (Greenhouse and Field)			
<b>Lettuce</b> (Greenhouse and Field)			
<b>Bushberries</b> (CG13-07B) (Field)			
<b>Ginseng</b> (field)			
<b>Fruiting Vegetables</b> (Greenhouse and Field)	<b>Botrytis blight</b> ( <i>Botrytis cinerea</i> )	3.75 – 7.5 g/L	7 - 14 days
<b>Herbs CG 25<sup>1</sup></b> (Greenhouse and Field)			
<b>Spices CG 25<sup>2</sup></b> (Field)			
<b>Cucurbit Vegetables</b> (Greenhouse and Field)			
<b>Greenhouse Crop Subgroup 13-07A<sup>3</sup>: Caneberries</b>			
<b>Greenhouse and Outdoor Ornamental Crops</b>	<b>Botrytis blight</b> ( <i>Botrytis cinerea</i> )	7.5 g/L	7 - 14 days
<b>Cannabis</b> (marihuana) produced Commercially indoors <b>Field-Grown Cannabis</b> <b>Field-Grown Hemp</b>	<b>Botrytis blight</b> ( <i>Botrytis cinerea</i> )	3.75 – 10 g/L	7 - 14 days
<b>Asian water spinach</b> (tung choy, kankon, rao muong)			

<b>DIP APPLICATION</b>		
<b>Crops</b>	<b>Disease suppressed</b>	<b>Rate</b>
<b>Ornamental Bulbs</b>	<b>Root rot</b> ( <i>Pythium</i> spp., <i>Rhizoctonia</i> spp., <i>Fusarium</i> spp.)	Dip bulbs in 60 g/L suspension

<b>SEED TREATMENT</b>		
<b>Crops</b>	<b>Disease suppressed</b>	<b>Rate</b>
<b>Pea</b> <b>Lima Bean</b> <b>Bean</b> <b>Lentil</b> <b>Soybean</b>	<b>Root rot</b> ( <i>Pythium</i> spp., <i>Rhizoctonia</i> spp., <i>Fusarium</i> spp.)	60-125 g/50 kg seed

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**Bulb vegetables:** chive, Chinese chive, daylily, Elegans hosta, fritillaria, garlic (bulb, great-headed, serpent), onion (bulb, green), kurrat, leek, lady's leek, wild leek, lily, onion (bulb, Chinese, green, macrostem, pearl, potato, tree, Welsh), shallot

**Leafy vegetables:** amaranth, arugula, cardoon, celery, Chinese celery, celtuce, chervil, chrysanthemum (edible-leaved, garland), corn salad, cress (garden, upland), dandelion, dock, endive, fennel, lettuce (head, leaf), orach, parsley, purslane (garden, winter), radicchio, rhubarb, spinach, New Zealand spinach, vine spinach, swiss chard

**Brassica vegetables:** broccoli (Chinese, raab), Brussels sprouts, cabbage, Chinese cabbage, cauliflower, cavolo broccoli, collards, kale, kohlrabi, mizuna, mustard greens, mustard spinach, rape greens

**Fruiting vegetables:** cocona, eggplant (including African, pea, scarlet), groundcherry, martynia, okra, pepino, pepper (bell, non-bell), sunberry, tomatillo, tamarillo, goji berry, tomato (including bush, currant)

**Cucurbit vegetables:** Chinese waxgourd, citron melon, cucumber, gherkin, gourd (edible), momordica, muskmelon (cantaloupe, casaba, crenshaw, golden pershaw, honeydew, honey balls, mango Persian, pineapple, Santa Claus, snake), pumpkin, squash (winter, summer), watermelon

**<sup>1</sup>Crop Group 25 Herbs:** Agrimony, fresh leaves; Agrimony, dried leaves; Amla, fresh leaves; Amla, dried leaves; Angelica, fresh leaves; Angelica, dried leaves; Angelica, dahurian, fresh leaves; Angelica, dahurian, dried leaves; Applemint, fresh leaves; Applemint, dried leaves; Avarum, fresh leaves; Avarum, dried leaves; Balloon pea, fresh leaves; Balloon pea, dried leaves; Balm, fresh leaves; Balm, dried leaves; Barrenwort, fresh 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; Bearberry, fresh leaves; Bearberry, dried leaves; Bisongrass, fresh leaves; Bisongrass, dried leaves; Blue mallow, fresh leaves; Blue mallow, dried 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, fresh 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, fresh 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, greater, dried leaves; Celandine, lesser, fresh leaves; Celandine, lesser, dried leaves; Celery, dried leaves; Centaury, fresh leaves; Centaury, dried leaves; Chaste tree, fresh leaves; Chaste tree, dried leaves; Chaste tree, Chinese, fresh leaves; Chaste tree, Chinese, dried leaves; Chervil, dried leaves; Chinese blackberry, fresh leaves; Chinese blackberry, dried leaves; Chinese foxglove, fresh leaves; Chinese foxglove, dried leaves; Chive, dried leaves; Chive, Chinese,

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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, fresh leaves; Creat, dried leaves; Culantro, fresh leaves; Culantro, dried leaves; Curry leaf, fresh leaves; Curry leaf, dried leaves; Curryplant, fresh leaves; Curryplant, dried leaves; Cut leaf, fresh leaves; Cut leaf, dried leaves; Damiana, fresh leaves; Damiana, dried leaves; Dillweed, dried leaves; Dokudami, fresh leaves; Dokudami, dried leaves; Echinacea, fresh leaves; Echinacea, dried leaves; Epazote, fresh leaves; Epazote, dried leaves; Eucommia, fresh leaves; Eucommia, dried leaves; Evening primrose, fresh leaves; Evening primrose, dried leaves; Eyebright, fresh leaves; Eyebright, 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; Field pennycress, dried leaves; Flowers, edible, fresh leaves, multiple species; Flowers, edible, dried leaves, multiple species; Fumitory, fresh leaves; Fumitory, dried leaves; Galbanum, fresh leaves; Galbanum, dried leaves; Galega, fresh leaves; Galega, dried leaves; Gambir, fresh leaves; Gambir, dried 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; Goldenrod, European, fresh leaves; Goldenrod, European, dried leaves; Goldenseal, fresh leaves; Goldenseal, dried leaves; Gotu kola, fresh leaves; Gotu kola, dried leaves; Greater periwinkle, fresh leaves; Greater periwinkle, dried leaves; Guayusa, fresh leaves; Guyana, dried leaves; Gumweed, fresh leaves; Gumweed, dried leaves; Gymnema, fresh leaves; Gymnema, dried leaves; Gypsywort, fresh leaves; Gypsywort, dried leaves; Hawthorn, fresh leaves; Hawthorn, dried leaves; Heal-all, fresh leaves; Heal-all, dried leaves; Hemp nettle, fresh leaves; Hemp nettle, dried leaves; Honewort, fresh leaves; Honewort, dried leaves; Honeybush, fresh leaves; Honeybush, dried leaves; Horehound, fresh leaves; Horehound, dried leaves; Horsemint, fresh leaves; Horsemint, dried leaves; Horsetail, fresh leaves; Horsetail, dried leaves; Hyssop, fresh leaves; Hyssop, dried leaves; Hyssop, anise, fresh leaves; Hyssop, anise, dried leaves; Indian tobacco, fresh leaves; Indian tobacco, dried leaves; Ironwort, fresh leaves; Ironwort, dried leaves; Ivy, fresh leaves; Ivy, dried leaves; Jamaica dogwood, fresh leaves; Jamaica dogwood, dried leaves; Jasmine, fresh leaves; Jasmine dried leaves; Labrador tea, fresh leaves; Labrador tea, dried leaves; Lavender, fresh leaves; Lavender, dried leaves; Lemon verbena, fresh leaves; Lemon verbena, dried leaves; Lemongrass, fresh leaves; Lemongrass, dried leaves; Lovage, fresh leaves; Lovage, dried leaves; Love-in-a-mist, fresh leaves; Love-in-a-mist, dried leaves; Mamaki, fresh 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

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leaves; Moringa, fresh leaves; Moringa, 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, fresh leaves; Mulberry, white, dried leaves; Mullein, fresh leaves; Mullein, dried leaves; Mustard, hedge, fresh leaves; Mustard, hedge, 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, stinging, fresh leaves; Nettle, stinging, 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; Partridge berry, fresh leaves; Partridge berry, dried leaves; Patchouli, fresh leaves; Patchouli, dried leaves; Pennyroyal, fresh leaves; Pennyroyal, dried leaves; Pepper leaf, black, fresh leaves; Pepper leaf, black, dried leaves; Peppermint, fresh leaves; Peppermint, dried leaves; Perilla, fresh leaves; Perilla, dried leaves; Pill bearing spurge, fresh leaves; Pill bearing spurge, dried leaves; Pipsissewa, fresh leaves; Pipsissewa, dried leaves; Plantain, common, fresh leaves; Plantain, common, dried leaves; Rooibos, fresh 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; Sage, white, fresh leaves; Sage, white, dried leaves; Savory, summer, fresh leaves; Savory, summer, dried leaves; Savory, winter, fresh leaves; Savory, winter, dried leaves; Senna, fresh leaves; Senna, dried leaves; Siberian fir, fresh leaves; Siberian fir, dried leaves; Skullcap, fresh leaves; Skullcap, dried leaves; Small flower willow head, fresh leaves; Small flower willow head, 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; Spilanthes, fresh leaves; Spilanthes, dried leaves; Spotted beebalm, fresh leaves; Spotted beebalm, dried leaves; St. John's Wort, fresh leaves; St. John's Wort, dried leaves; Stevia, fresh leaves; Stevia, dried leaves; Stoneroot, fresh leaves; Stoneroot, dried leaves; Swamp leaf, fresh leaves; Swamp leaf, dried leaves; Tansy, fresh leaves; Tansy, dried leaves; Tarragon, fresh leaves; Tarragon, dried leaves; Thuja, fresh leaves; Thuja, 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; Toothed clubmoss, fresh leaves; Toothed clubmoss, dried leaves; Trailing arbutus, fresh leaves; Trailing arbutus, dried leaves; Vasaka, fresh leaves; Vasaka, dried leaves; Verbena, blue, fresh leaves; Verbena, blue, dried leaves; Veronica, fresh leaves; Veronica, dried leaves; Violet, fresh leaves; Violet, dried leaves; Watermint, fresh leaves; Watermint, dried leaves; Waterpepper, fresh leaves; Waterpepper, dried leaves; Wild bergamot, fresh leaves; Wild bergamot, dried leaves; Wintergreen, fresh leaves; Wintergreen, dried leaves; Wood betony, fresh 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,

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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; Cultivars, varieties, and hybrids of these commodities.

### <sup>2</sup>CG 26 Spices:

Ajowan, seed; Alder buckhorn; Ambrette, seed; Angelica, dahurian, seed; Angelica, seed; Anise, seed; Autumn crocus; Barberry, bark; Betel vine; Birch, bark; Bisnaga, seed; Black bread weed; Bloodroot; Boldo, leaf; Calamus root (wild harvested); Caper buds; Caper spurge, seed; Caraway, black; Caraway, fruit; Cascara sagrada; Celery, seed; Chaste tree, berry; Chervil, seed; Chinese hawthorn; Chinese wineberry, fruit; Comfrey; Coptis; Coriander, fruit; Coriander, seed; Crampbark; Culantro, seed; Culvers root; Cumin; Cumin, black; Dill, seed; Echinacea, seed; Epimedium; Eucalyptus; Eucommia, bark; European beech; Felty germander; Fennel flower, seed; Fennel, common, fruit; Fennel, common, seed; Fennel, Florence, fruit; Fennel, Florence, seed; Fenugreek, seed; Galbanum, resin; Haw, black; Honewort, seed; Imperatoria; Indian tobacco, seed; Iva; Juniper berry; Linden, leaf; Lovage, seed; Magnolia, bark; Mahaleb; Milk thistle; Mioga; Mistletoe; Mojave yucca; Mustard, black; Mustard, brown; Mustard, seed; Mustard, white; Nasturtium, bush, pods; Nasturtium, garden, pods; Nasturtium, pods; Nettle, stinging, seed; Osha; Pepperbush, berry; Pepperbush, leaf; Perilla, seed; Phellodendron; Poppy, seed; Rue; Saffron crocus; Sassafras, bark; Sassafras, leaf; Sesame, seed; Skunk cabbage, root; Slippery elm; Sumac, fragrant; Sumac, smooth, leaf; Tasmanian pepper, berry; Tasmanian pepper, leaf; White willow; Willow; Witch hazel; Yaw root; Yellow gentian, roots; cultivars, varieties, and hybrids of these commodities.

### <sup>3</sup>Crop Subgroup 13-07A: Caneberries (Greenhouse)

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 (*Rubus loganobaccus*), Raspberry, black and red (*Rubus* spp.), Wild raspberry (*Rubus muelleri*), Cultivars, varieties and/or hybrids of these

**Bushberries:** Aronia berry; blueberry, highbush; blueberry, lowbush; buffalo currant; Chilean guava; currant, black; currant, red; elderberry; European, barberry; gooseberry; cranberry, highbush; honeysuckle, edible; huckleberry; jostaberry; Juneberry; lingonberry; native currant; salal; sea buckthorn; cultivars, varieties, and/or hybrids of these.

## GENERAL APPLICATION INSTRUCTIONS

Use a quantity of spray solution to thoroughly cover foliage. Crop size, spray equipment and local practice will determine the volume of water needed. Spray to wet, but avoid run-off. Within the stated rate ranges, use higher rates when conditions favour disease development or high disease pressure is anticipated.

RootShield® HC - Biological Fungicide Wettable Powder can be applied using hand-held backpack or ground spray equipment. Do not use with low-volume sprayers. AGITATION IS REQUIRED TO MAINTAIN SUSPENSION. Application equipment should be cleaned before use of this product, and prepared sprays should be used within 4 hours of preparation. To prevent nozzle tip clogging the manufacturer recommends using 50 – 100 mesh inlet screens in all spray equipment.

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**FIELD SPRAYER APPLICATION:** DO NOT applying 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) fine/medium/coarse classification. Boom height must be 60 cm or less above the crop or ground.

**PRECAUTIONS: KEEP OUT OF THE REACH OF CHILDREN.** May cause sensitization. Avoid contact with skin, eyes or clothing. Avoid breathing dust or spray mist. Wear a long-sleeved shirt, long pants, water proof gloves, shoes plus socks, eye goggles and a dust/mist filtering respirator/mask (MSH/NIOSH approval number prefix TC-21C) or a NIOSH approved respirator with any N -95, R-95, P-95 or HE filter for biological products when handling, mixing/loading or applying the product and during all clean-up/repair activities. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

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. Can be applied up to and including the day of harvest. The pre-harvest interval is 0 days.

#### RE-ENTRY INTERVAL

DO NOT re-enter or allow re-entry into treated areas for 4 hours or until sprays have dried, unless wearing appropriate personal protective equipment including long-sleeved shirt, long pants, shoes plus socks, and waterproof gloves.

#### ENVIRONMENTAL PRECAUTIONS:

As this pesticide 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 with this product. DO NOT clean equipment or dispose of wastes in any water supply.

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay.

- Avoid application when heavy rain is forecast.
- Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

DO NOT apply by air.

#### 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/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 mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

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**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.

**GENERAL:** Seek medical attention immediately if irritation or signs of toxicity occur and persist or is severe. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**TOXICOLOGICAL INFORMATION:** Treat symptomatically.

**STORAGE:** Store in a secure dry place at temperatures between 2°C and 5°C. Do not contaminate water, food, or feed during storage. Keep product in original container during storage and keep container lid tightly closed when not in use. This product should be used within 12 months of the date of manufacture when stored under refrigerated conditions.

**DISPOSAL/ DECONTAMINATION:**

1. Thoroughly empty the contents of the container into the application device or medium.
2. Make the container unsuitable for further use.
3. Dispose of the container in accordance with provincial requirements.
4. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial 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.