

RootShield® Granules

Biological Fungicide

ACTIVE INGREDIENTS

Trichoderma harzianum Rifai strain KRL-AG2* 1.15%

OTHER INGREDIENTS

TOTAL 98.85%

100.00%

*Contains at least 1.0 x 10⁷ colony forming units per gram dry weight.

EPA Reg. No. 68539-3 Lot No.: _____

EPA Est. No. 068539-NY-001 Use Before: _____

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID	
If in eyes	<ul style="list-style-type: none">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.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS - CAUTION: Avoid contact with skin or eyes. Avoid breathing dust.
PERSONAL PROTECTIVE EQUIPMENT Applicators and other handlers must wear: a) long sleeved shirt and long pants; b) shoes plus socks; c) when dumping or opening bags, or other operations where dusts may be created, wear a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C) or a NIOSH approved respirator with an appropriate N-95, R-95, P-95 or HE filter for biological products. Follow manufacturer's directions for cleaning/maintaining PPE. 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 before eating, drinking, chewing gum, using tobacco, or using the toilet.
ENVIRONMENTAL HAZARDS Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash water.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected workers may be in the area during application. For any requirement 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 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) and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.
There are no restrictive entry interval (REI) requirements.

GENERAL INFORMATION

RootShield Granules is a preventative biological fungicide for control of soilborne plant pathogens and plant root diseases. The active ingredient is a microbe, *Trichoderma harzianum* Strain T-22 (KRL-AG2), which when applied as an inoculant to soil, planting mixes or turf, grows onto plant roots as they develop and provides protection against plant root pathogens such as *Pythium*, *Rhizoctonia*, *Fusarium*, *Cylindrocladium* and *Thielaviopsis*.

RootShield Granules can be used in combination with or in rotation with other fungicides, insecticides, miticides, fertilizers or micronutrients in accordance with the more restrictive of label limitation and precautions. No label dosage rates should be exceeded. This product can not be used with any product containing a label prohibition against such mixing. This product is not compatible with chemicals that contain the following active ingredients: benomyl, imazilil, propiconazole, tebuconazole, and triflumizole. Do not apply RootShield Granules immediately before these pesticides are used. Where early season seed rot and seedling diseases are expected, use chemically treated seed or other appropriate measures for stand establishment and RootShield Granules for root disease control.

Note: RootShield Granules contains live spores of a microbe that must be used prior to disease onset. RootShield Granules become active in soil at temperatures above 50°F and is not effective while temperatures remain cold. RootShield Granules can be applied to sterilized or fumigated soil but must be applied after sterilization or fumigation.

This biological fungicide is for use in soil applications (drench, in soil furrow, potting soil and broadcast) and seed treatments in or on all raw agricultural commodities, food and fiber crops, ornamentals, landscape plants, turf, and trees, including tree seedlings for transplanting into the forest.

NOTE: DO NOT APPLY to sugarcane, pechay, rice, mushrooms, kiwi, tobacco, barley, oats, lemon, apple, and chickpea. Not for use on aquatic crops.

APPLY VIA GROUND APPLICATION ONLY.

CROPS ON WHICH ROOTSHIELD GRANULES MAY BE USED

CROPS	USE	RATE
Flowers, Bedding Plants, and Ornamentals	In-furrow Greenhouse planting mix Nursery planting mix Nursery bed applications	5.0 - 12.0 lbs. / acre 1.0 - 1.5 lbs. / cubic yd. soil mix 1.0 - 1.5 lbs. / cubic yd. soil mix 1.0 - 1.5 lbs. / 1000 sq. ft. incorporated with rake or tiller
Fruiting Vegetables: Eggplant, Sweet and Hot Peppers, Tomatillos, Tomatoes	In-furrow Greenhouse planting mix	5.0 - 12.0 lbs. / acre 1.0 - 1.5 lbs. / cubic yd. soil mix
Herbs, Spices and Mints	In-furrow Greenhouse planting mix	5.0 - 12.0 lbs. / acre 1.0 - 1.5 lbs. / cubic yd. soil mix
Hydroponic Crops: Cucumbers, Tomatoes, Lettuce, Herbs and Spices	Greenhouse planting mix	1.0 - 1.5 lbs. / cubic yd. soil mix
Leafy Vegetables and Cole Crops: Arugula, Celery, Chervil, Endive, Fennel, Lettuce (head and leaf), Parsley, Radicchio, Rhubarb, Spinach, Swiss Chard, Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Collards, Kale, Kohlrabi, Mustard Greens, Asparagus	In-furrow Greenhouse planting mix Nursery bed applications	5.0 - 12.0 lbs. / acre 1.0 - 1.5 lbs. / cubic yd. soil mix 1.0 - 1.5 lbs. / 1000 sq. ft. incorporated with rake or tiller
Pome Fruit: Pears, Quince	In-furrow Greenhouse planting mix Nursery planting mix Trees, shrubs, and other transplants	5.0 - 12.0 lbs. / acre 1.0 - 1.5 lbs. / cubic yd. soil mix 1.0 - 1.5 lbs. / cubic yd. soil mix 0.2 - 8.0 oz. / transplant hole and incorporate
Shadehouse and Outdoor Nursery Crops: Deciduous trees (Maple, Oak, etc.), Ornamentals, Grapes, Citrus, Pine	In-furrow Greenhouse planting mix Nursery planting mix Trees, shrubs, and other transplants	5.0 - 12.0 lbs. / acre 1.0 - 1.5 lbs. / cubic yd. soil mix 1.0 - 1.5 lbs. / cubic yd. soil mix 0.2 - 8.0 oz. / transplant hole and incorporate
Stone Fruit: Apricots, Cherries, Nectarines, Peaches, Plums, Prunes	In-furrow Greenhouse planting mix Nursery planting mix Trees, shrubs, and other transplants	5.0 - 12.0 lbs. / acre 1.0 - 1.5 lbs. / cubic yd. soil mix 1.0 - 1.5 lbs. / cubic yd. soil mix 0.2 - 8.0 oz. / transplant hole and incorporate
Tree Nuts: Almonds, Beech Nuts, Brazil Nuts, Butternuts, Cashews, Chestnuts, Filberts, Hickory Nuts, Macadamia Nuts, Pecans, Pistachios, Walnuts	In-furrow Greenhouse planting mix Nursery planting mix Trees, shrubs, and other transplants	5.0 - 12.0 lbs. / acre 1.0 - 1.5 lbs. / cubic yd. soil mix 1.0 - 1.5 lbs. / cubic yd. soil mix 0.2 - 8.0 oz. / transplant hole and incorporate

IN-FURROW SOIL TREATMENT: Apply RootShield Granules from a granular applicator at the rate of 5-12 pounds per acre. For best results apply granules using a metering device, such as a Gandy applicator or equivalent, mounted to deliver granules into the furrow just behind the furrow opener. Apply in furrow at seeding or to established crops as a side dress.

GREENHOUSE PLANTING MIX AMENDMENT: Mix RootShield Granules with planting mixes at a rate of 1-1.5 pounds per cubic yd. (loose) mix. For best results, thoroughly incorporate RootShield Granules into planting mixes during mix preparation or at pot filling.

NURSERY PLANTING MIX AMENDMENT: For nursery planting mixes apply RootShield Granules at the rate of 1-1.5 pounds per cubic yd. (loose) mix. For nursery beds, incorporate at a rate of 1.0-1.5 pounds per 1000 square feet of bed by raking or tilling. Application of irrigation water will help move RootShield Granules into the soil. If soil is fumigated or steam sterilized apply RootShield Granules after treatment.

TREES, SHRUBS, AND OTHER TRANSPLANTS: Apply RootShield Granules to the planting hole at a rate of 0.2 - 8.0 ounces and incorporate into the planting soil or soil mix.

STORAGE AND DISPOSAL
Do not contaminate water, food or feed by storage or disposal.
STORAGE: Store in a cool, dry place. Do not store near food or feed commodities. Do not store at temperatures above 75°F for prolonged periods. Keep container tightly closed when not in use.
DISPOSAL: Do not contaminate food or feed by disposal. Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility. Do not reuse container. Dispose of empty container in a sanitary landfill, or by incineration, or by open burning if allowed by state and local authorities. If burned, keep out of smoke.

NOTICE TO BUYER AND SELLER: Seller warrants that this product conforms to the description on the label and is reasonably fit for the purposes stated on the label when used and stored in accordance with directions under normal conditions of use. This warranty does not extend to use of this product contrary to label directions or under conditions not reasonably foreseeable by the Seller. Buyer and User assume the risk of any such use. Seller disclaims all other warranties express or implied, including any warranty of fitness or merchantability. To the extent permitted by state law, Seller shall not be liable for consequential, special or indirect damages resulting from use or handling of this product and Seller's sole liability and Buyer's and User's exclusive remedy shall be limited to refund of the purchase price.

This product is sold only for uses stated on its label. No express or implied license is granted to use or sell this product under any patent in any country except as specified.

Country: United States of America

US Patent No. 5,260,213

In Case of Emergency
Call CHEMTREC: (800) 424-9300

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