

89635-2

1/6/2014

117



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs  
Biopesticides and Pollution  
Prevention Division (7511P)  
Ariel Rios Building  
1200 Pennsylvania Ave., NW  
Washington, D.C. 20460

EPA Reg. Number:

89635-2

Date of Issuance:

JAN 06 2014

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
(under FIFRA, as amended)

Term of Issuance: Unconditional

Name of Pesticide Product:

Triatum G Biological Fungicide

Name and Address of Registrant (include ZIP Code):

Koppert Biological Systems, Inc.  
1502 Old US 23  
Howell, Michigan 48843

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Biopesticides and Pollution Prevention Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This registration does not eliminate the need for continual reassessment of the pesticide. If EPA determines, at any time, that additional data are required to maintain in effect an existing registration, the Agency will require submission of such data under section 3(c)(2)(B) of FIFRA.

This product is registered in accordance with FIFRA section 3(c)(5) and is subject to the following terms and conditions:

1. Submit/cite all data required for registration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Revise the EPA Reg. No. entry to read, "89635-2."
3. Submit two (2) copies of the revised final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

A stamped copy of the label is enclosed for your records.

Signature of Approving Official:

Robert McNally, Director  
Biopesticides and Pollution Prevention Division

Date:

1/6/14

2/7

Trianum G  
Label Version 1D (Jan, 2014)

# Trianum G

## Biological Fungicide

(Alternate Brand Names: Trianum Granules Biological Fungicide; T-22 G Granules - Biological Fungicide)

**ACTIVE INGREDIENT:**

*Trichoderma harzianum* Rifai strain KRL-AG2\*.. 1.32%  
OTHER INGREDIENTS .....98.68%  
TOTAL .....100.00%

\*Contains at least 1.0 x 10<sup>7</sup> colony forming units per gram dry weight.

### KEEP OUT OF REACH OF CHILDREN

### CAUTION

FIRST AID
<p>If in eyes:</p> <ul style="list-style-type: none"> <li>Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, and then continue rinsing.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor or going for treatment. For emergency information on (product, use, etc.), call the National Pesticides Information Center at 1-800-858-7378, 6:30 AM to 4:30 PM Pacific time (PT), seven days a week. During other times, call the poison control center 1-800-222-1222.</p>

EPA Reg. No. 89635-E  
Net Weight:  
Expiration Date:

EPA Est. No. XXXXX-YY-Z  
Lot Number:

Manufactured by:  
Koppert Biological Systems, Inc.  
1502 Old US 23  
Howell, Michigan 48843

## ACCEPTED

JAN 06 2014

Under the Federal Insecticide, Fungicide,  
and Rodenticide Act, as amended, for  
the pesticide registered under  
EPA Reg. No. 89635-2



**GENERAL INFORMATION**

TRIANUM G is a preventative biological fungicide for control of soilborne plant pathogens and plant root diseases. The active ingredient is a microbe, *Trichoderma harzlanum* Strain T-22, 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*.

TRIANUM G 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, propicanazole, febuconazole, and triflumizole. Do not apply TRIANUM G 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 TRIANUM G for root disease control.

Note: TRIANUM G contains live spores of a microbe that must be used prior to disease onset. Strain T - 22 becomes active in soil at temperatures above 50°F and is not effective while temperatures remain cold. TRIANUM G 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 and potting soil) 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.

**USE RESTRICTIONS**

Do not apply this product as a broadcast application. Cover applied product with soil or otherwise incorporate it into soil.

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

**APPLY VIA GROUND APPLICATION ONLY.**

CROPS	USE	RATE
Asparagus	In-furrow	2.5 - 6.0 lbs./ ½ acre
	Greenhouse planting mix	1.0 - 3.0 lbs./ cubic yd. soil mix
	Nursery bed applications	0.5 - 7.5 lbs./ 1000 sq. ft. incorporate with rake or tiller
<b>Berries and Small Fruits:</b> Blackberries, Blueberries, Currants, Elderberries, Gooseberries, Huckleberries, Loganberries, Raspberries, Strawberries, Grapes	In-furrow	2.5 - 6.0 lbs./ ½ acre
<b>Bulb Crops:</b> Garlic, Leeks, Onions, Shallots	In-furrow	2.5 - 6.0 lbs./ ½ acre
<b>Citrus Fruits:</b> Citrus Hybrids, Grapefruit, Kumquat, Limes, Oranges, Pummelos	In-furrow	2.5 - 6.0 lbs./ ½ acre

<b>Cereal Grains:</b> Buckwheat, Corn (grain, seed, sweet corn, silage, popcorn, high oil),	In-furrow	2.5 - 6.0 lbs./ ½ acre
<b>Cucurbit Vegetables:</b> Cucumbers, Melons, Gourds Pumpkins, Squash	In-furrow	2.5 - 6.0 lbs./ ½ acre
<b>Flowers, Bedding Plants, and Ornamentals</b>	In-furrow	2.5 - 6.0 lbs./ ½ acre
	Greenhouse planting mix	1.0 - 3.0 lbs./ cubic yd. soil mix
	Nursery planting mix	1.0 - 3.0 lbs./ cubic yd. soil mix
	Nursery bed applications	0.5 - 7.5 lbs./ 1000 sq. ft. incorporate with rake or tiller
<b>Fruiting Vegetables:</b> Eggplant, Sweet and Hot Peppers, Tomatillos, Tomatoes	In-furrow	2.5 - 6.0 lbs./ ½ acre
	Greenhouse planting mix	1.0 - 3.0 lbs. / cubic yd. soil mix
<b>Herbs, Spices, and Mints</b>	In-furrow	2.5 - 6.0 lbs./ ½ acre
	Greenhouse planting mix	1.0 - 3.0 lbs./ cubic yd. soil mix
<b>Hydroponic Crops:</b> Cucumbers, Tomatoes, Lettuce, Herbs and Spices	Greenhouse planting mix	1.0 - 3.0 lbs./ cubic yd. soil mix
<b>Leafy Vegetables and Cole Crops:</b> 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	2.5 - 6.0 lbs./ ½ acre
	Greenhouse planting mix	1.0 - 3.0 lbs. / cubic yd. soil mix
	Nursery bed application	1.0 – 3.0 lbs./ 1000 sq ft
		Incorporate with rake or tiller
<b>Legume Vegetable (Succulent or Dried):</b> Beans (soybeans, snap, dry), Lentils, Succulent and Dry Peas, Peanuts, Soybeans	In-furrow	2.5 - 6.0 lbs./ ½ acre
<b>Oilseed Crops:</b> Cotton, Canola, Safflower, Sunflower	In-furrow	2.5 - 6.0 lbs./ ½ acre
<b>Pome Fruit:</b> Pears, Quince	In-furrow	2.5 - 6.0 lbs./ ½ acre
	Greenhouse planting mix	1.0 - 3.0 lbs. / cubic yd. soil mix
	Nursery planting mix	1.0 - 3.0 lbs. / cubic yd. soil mix
	Trees and shrubs	0.2 oz – 8.0 oz / transplant hole and incorporate
<b>Root Crops and Tuber Vegetables:</b> Beets, Sugar beets, Carrots, Celery, Chicory, Horseradish, Parsnip, Radish, Rutabaga, Salsify, Turnips, Ornamental Roots and Tuber Vegetables  Potatoes, Sweet Potatoes, Yams, Jerusalem Artichokes, Cassava, Ginger	In-furrow	2.5 - 6.0 lbs./ ½ acre
	Planting hole	0.2 - 8.0 oz. / transplant hole and incorporate

6/7

<b>Shadehouse and Outdoor Nursery Crops:</b> Deciduous Trees (Maple, Oak, etc.), Ornamentals, Grapes, Citrus, Pine	In-furrow	2.5 - 6.0 lbs./ ½ acre
	Greenhouse planting mix	1.0 - 3.0 lbs. / cubic yd. soil mix
	Nursery planting mix	1.0 - 3.0 lbs. / cubic yd. soil mix
	Trees and shrubs	0.2 - 8.0 oz. / transplant hole and incorporate
<b>Stone Fruit:</b> Apricots, Cherries, Nectarines, Peaches, Plums, Prunes	In-furrow	2.5 - 6.0 lbs./ ½ acre
	Greenhouse planting	1.0 - 3.0 lbs. / cubic yd. soil mix
	Nursery planting mix	1.0 - 3.0 lbs. / cubic yd. soil mix
	Trees and shrubs	0.2 - 8.0 oz. / transplant hole and incorporate
<b>Tree Nuts:</b> Almonds, Beech Nuts, Brazil Nuts, Butternuts, Cashews, Chestnuts, Filberts, Hickory Nuts, Macadamia Nuts, Pecans, Pistachios, Walnuts	In-furrow	2.5 - 6.0 lbs./ ½ acre
	Greenhouse planting mix	1.0 - 3.0 lbs. / cubic yd. soil mix
	Nursery planting mix	1.0 - 3.0 lbs. / cubic yd. soil mix
	Trees	0.2 - 8.0 oz. / transplant hole and Incorporate
<b>Turfgrass:</b> Turf, sports fields, parks, established and new preparation of golf course tees, greens, fairways and roughs, seed production, sod production	New turf seedlings	Soil incorporate 1.0 - 4.0 lbs. / 1000 sq. ft. or 40 - 120 lbs./ acre

**IN-FURROW SOIL TREATMENT:** Apply TRIANUM G from a granular applicator at the rate of 2.5 to 6 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.

**NEW TURF SEEDINGS:** Apply TRIANUM G by ground application at 1 to 4 pounds per 1000 square feet or 40-120 pounds per acre just prior to or at the time of seeding. Incorporate into the soil surface or cover with mulch along with the grass seed. Application of irrigation water will help move TRIANUM G into the soil.

**GREENHOUSE PLANTING MIX AMENDMENT:** Mix TRIANUM G with planting mixes at a rate of 1 to 3 pounds per cubic yd. (loose) mix. For best results, thoroughly incorporate TRIANUM G into planting mixes during mix preparation or at pot filling.

**NURSERY PLANTING MIX AMENDMENT:** For nursery planting mixes apply TRIANUM G at the rate of 1 to 3 pounds per cubic yd. (loose) mix. For nursery beds, incorporate at a rate of 0.5-7.5 pounds per 1000 square feet of bed by raking or tilling. Application of irrigation water will help move TRIANUM G into the soil. If soil is fumigated or steam sterilized apply TRIANUM G after treatment.

**TREES, SHRUBS, AND OTHER TRANSPLANTS:** Apply TRIANUM G granules to the planting hole at a rate of 0.2 to 8.0 ounces and incorporate into the planting soil or soil mix.

7/7

**STORAGE AND DISPOSAL**

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

**STORAGE:** Store in original container under refrigerated conditions. Short periods at room temperatures above 75°F will not affect performance. 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.

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into the application equipment by shaking and tapping sides and bottom to loosen clinging particles, then offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration.

**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. To the extent permitted by state law, this warranty does not extend to use of this product contrary to label directions or under conditions not reasonably foreseeable by the Seller, and Buyer and User assume the risk of any such use. To the extent permitted by state law, 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.