

4-431

6/15/2009

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JUN 15 2009

Rebecca M. Horton
Agent for Bonide Products, Inc.
Registrations by Design, Inc.
118½ East Main Street, Suite 1
Salem, VA 24153-3805

Subject: Bonide Root & Grow
EPA Registration No. 4-431
Label Amendment dated March 17, 2009
Decision Number: 408139

Dear Ms. Horton:

The amendment referred to above, submitted in connection with registration under FIFRA section 3(c)(5), is acceptable provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Submit three (3) copies of your final printed labeling before you release the product for shipment. Final printed labeling means the label or labeling of the product when distributed or sold. Clearly legible reproductions or photo reductions will be accepted for unusual labels, such as those silk-screened directly onto glass or metal containers or large bags or drum labels.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(b). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

If you have any questions contact John Fournier at 703-308-0169 or by email at: fournier.john@epa.gov. A stamped copy of the label is enclosed for your records.

Sincerely,



Linda A. Hollis, Chief
Biochemical Pesticides Branch
Biopesticides and Pollution

Registration Division (7511P)

SYMBOL	7511P							
SURNAME	Fournier							
DATE	15 Jun 09							

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ACCEPTED

JUN 15 2009

[MASTER LABEL]



Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended, for
the pesticide registered under
EPA Reg. No. 4-431

ROOT & GROW[®]

Root Stimulator & Plant Starter

4-10-3

For use on ornamental plants, listed vegetables, fruits, nuts and berries.

Optional Marketing Statements:

- Stimulates Early Root Formation, Stronger Root Development
- Helps Reduce Transplant Shock and Promotes More Vigorous Plant Growth
- Provides Nutrients for Seed Germination

ACTIVE INGREDIENT:

Indole-3-butyric acid..... 0.0004%

OTHER INGREDIENTS:..... 99.9996%

TOTAL 100.0000%

KEEP OUT OF REACH OF CHILDREN

CAUTION

See back/side/other panel(s) for First Aid and additional Precautionary Statements

GUARANTEED ANALYSIS **4-10-3**

Total Nitrogen (N) 4.00%

4.00% Ammoniacal Nitrogen

Available Phosphate (P₂O₅) 10.00%

Soluble Potash (K₂O) 3.00%

Derived from ammonium phosphate, muriate of potash.

F1290

Information concerning the raw materials composing this product can be obtained by writing to the Guarantor listed below, and referring to the batch number found on this container.

NET CONTENTS: 1 PT (473 ml)/ 1 QT (946 ml)/1 GAL (3.785 l)

NET WEIGHT: 1.15 LB (.5 kg)/2.3 LB (1.0 kg)/9.2 LB (4.2 kg)

FIRST AID

Have the product container or label with you when calling a poison control center or doctor, or when going for treatment. You may also contact the National Pesticide Information Center at 1-800-858-7378 for emergency medical treatment information.

- 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 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.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.

ENVIRONMENTAL HAZARDS: To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

STORAGE AND DISPOSAL

Pesticide Storage: Store and transport in an upright position. Store product in original container in a locked storage area.

Pesticide Disposal: *If partly filled* – Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

Container Disposal: *If empty* – Nonrefillable container. Do not reuse or refill this container. Place in trash or offer for recycling if available.

FOR HOMEOWNER USE ONLY

WHAT IS THIS PRODUCT FOR? Use **BONIDE® Root & Grow®** anytime you are seeding or transplanting to stimulate early root formation and stronger root development, to help reduce transplant shock, and to promote more vigorous plant growth. **BONIDE® Root & Grow®** can also be used as listed throughout the growing season to provide plant nutrients that help sustain optimal plant growth and development.

HERE ARE THE RESULTS YOU MAY EXPECT: This product helps plants become established quickly and helps insure vigorous growth.

HOW TO USE: (SHAKE WELL BEFORE USE)

This product is concentrated and must be diluted with water according to the following rates before use on flowers, shrubs, trees or houseplants.

3½ Tbs. per gallon of water 1 pint in 9½ gallons of water 1 quart in 19 gallons of water

[Optional How to Use directions to be used for containers with measuring-cup caps: Mix ½ capful (3½ Tbs.) per gallon of water.]

ORNAMENTAL PLANTS

Flowers, Shrubs, Trees:

For Transplants: Use 1 to 8 pints of *diluted* solution per plant, depending on size. For example, use 1 pint of the mixture on mums, geraniums and other annual flowers. For rose bushes, azaleas, gardenias, camellias, and other shrubs, use 3 pints per plant. For plants larger than 4 ft. (trees and large shrubs) use 1 gal. or more of the mixture per plant. Pour diluted solution over the soil as the roots are being covered, making sure that the roots are wet with the solution. Wet soil around plant with water after planting.

For Seeding: After seeds are covered with soil, water thoroughly using 1 gallon of *diluted* solution per 250 sq. ft. of plant bed. Water thoroughly.

For Established Plants: Use 1 gallon of *diluted* solution per 250 sq. ft. Apply at first signs of new growth in spring and repeat every 4-6 weeks throughout the growing season. Water thoroughly.

Houseplants: Use ½ cup *diluted* solution per quart of soil (a 6 in. pot holds approximately 1 quart). Reapply every 6-8 weeks.

Lawns:

For Seeding/Sodding New Lawns: Dilute 1 gallon **BONIDE® Root & Grow®** in 10-15 gallons of water to cover 2,500 sq. ft. (1 quart in 2½ to 3¾ gallons of water to cover 625 sq. ft.) (1 pint in 1¼ to 2 gallons of water to cover 312 sq. ft.). Apply using a hose-end sprayer or pressure-type tank sprayer. Water thoroughly to soak into the root zone.

Recommended Crops: The following is a broad listing of crops on which this product is recommended for use. A brief listing of crops within each grouping is given after the group name as an example of those crops represented. The examples given are not meant to be an exhaustive list of those crops within any grouping, and should not be construed as such.

Row or Band and Injection Applications: Use at the rate of 3½ to 4½ fluid ounces per 1,000 sq. ft.

Broadcast Applications: Use at the rate of 7½ to 8½ fluid ounces per 1,000 sq. ft.

VEGETABLES:

BRASSICA (COLE) LEAFY VARIETIES: (Broccoli, Brussels Sprouts, Cabbage, Chinese Cabbage, Cauliflower, Chinese Mustard, Collards, Kale, Kohlrabi, Mustard Greens, Rape Greens)

CUCURBITS: (Cantaloupe, Casaba Melons, Cucumbers, Gherkins, Gourds, Honeydew Melons, Mango Melons, Muskmelons, Pumpkins, Summer Squash, Watermelons, Winter Squash)

LEAFY VEGETABLES (EXCEPT BRASSICA): (Celery, Cress, Endive, Fennel, Lettuce, Orach, Spinach, Swiss Chard)

ROOT, TUBER AND BULB VEGETABLES: (Artichokes, Burdock, Carrots, Cassava, Chicory, Garlic, Ginger, Ginseng, Horseradish, Leek, Onion, Parsley, Parsnip, Potato, Radish, Rutabaga, Salsify, Shallot, Sweet Potato, Turnips, Yams)

FRUITING VEGETABLES: (Bell Peppers, Chile Peppers, Cooking Peppers, Eggplant, Ground Cherry, Pepinos, Pimentos, Sweet Peppers, Tomatillo, Tomatoes)

LEGUMES: (Beans including *Lupinus spp.*, *Phaseolus spp.*, and *Vigna spp.*, Broad Beans, Chick Peas, Guar, Jackbean, Lablab Beans, Lentils, Peas, Soybeans.)

TREE CROPS:

CITRUS: (Calamondin, Grapefruits, Kumquats, Lemons, Limes, Oranges, Tangelos, Tangerines)

NUTS: (Almonds, Beech Nut, Brazil Nut, Butternut, Cashew, Chestnut, Chinquapin, Filberts, Hickory Nut, Macadamia Nut, Pecan, Walnut)

POME FRUIT: (Apple, Crabapple, Mayhaw, Pear, Quince)

STONE FRUIT: (Apricots, Cherries (Sweet and Sour), Nectarines, Peaches, Plums, Prunes)

SMALL FRUITS AND BERRIES: (Blackberries, Blueberries, Boysenberries, Cranberries, Currants, Dewberries, Elderberries, Gooseberries, Grapes, Huckleberries, Olallieberries, Raspberries, Strawberries, Youngberries)

For information on pesticide products (including health concerns, medical emergencies, or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378.

To the extent consistent with applicable law, buyer assumes all risks of use, storage or handling of this product not in strict accordance with directions given herewith.

[Batch Code to be inserted at production]

Manufactured/Guaranteed by:
Bonide Products, Inc.
6301 Sutliff Road
Oriskany, NY 13424

