

4-224

5-5-2004

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460



OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

May 5, 2004

Ms. Rebecca Horton
Bonide Products, Inc.
6301 Sutliff Rd
Oriskany, NY 13424

Dear Ms. Horton:

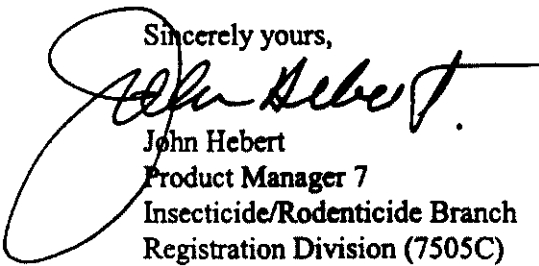
Subject: Labeling for BONIDE® Rotenone 5% Insect Control
EPA Reg. No. 4-224
Your Submission Dated March 23, 2004

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable provided you make the following changes before you release the product for shipment bearing the amended labeling:

1. Add the following to the front panel label statement: The word "POISON" and the skull and crossbones symbol in immediate proximity to each other. The word "POISON" must appear in red on a background of a distinctly contrasting color.
2. Add the following statement under the heading **Directions for Use**: "Restricted Use Pesticide".
3. Make the following modification in the **Directions for Use** section after **Mixing Directions**: Change "tablespoons" to "ounces".
4. Delete the following uses in the **Directions for Use** section after **Fire Ants (Mound Treatment Only)**: "lawns, gardens, around buildings".
5. FYI: While reading through the label, two typos were noted. Bullet 3 under the "If Swallowed" section on page 1 states "gold" instead of "told". Line 2 in the Agricultural Use Requirements box on page 2 states "requiremens" instead of "requirements".

Submit two copies of your final printed labeling before you release the product for shipment. A stamped copy is enclosed for your records. If you have any questions, please contact Ann Hanger at (703) 306-0395 or hanger.ann@epa.gov.

Sincerely yours,



John Hebert
Product Manager 7
Insecticide/Rodenticide Branch
Registration Division (7505C)

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RESTRICTED USE PESTICIDE
 Due to Acute Oral and Inhalation Toxicity
 For retail sale to, and use only by, Certified Applicators, or persons under their direct supervision, and only for those uses covered by the Certified Applicator's certification.



ACCEPTED
 with COMMENTS
 In EPA Letter Dated:
MAY 5 2004
 Under the Federal Insecticide,
 Fungicide, and Rodenticide Act,
 as amended, for the pesticide
 registered under EPA Reg. No.
 4-224

ROTENONE 5% INSECT CONTROL

Kills Colorado Potato Beetle
 Controls Listed Insects on Ornamentals, Vegetables, and Small Fruit Crops.
 Also Recommended for Fire Ant Control.
 Made from Cube Roots
 Controls Insects on Bush and Vine Fruits, Fruit Trees, Shade Trees, Flowers, Shrubs and Vegetables

ACTIVE INGREDIENTS:

Rotenone.....	5.0%
Other Associated Resins.....	10.0%
OTHER INGREDIENTS:	85.0%
TOTAL	100.0%

KEEP OUT OF REACH OF CHILDREN
DANGER – PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
 (If you do not understand this label, find someone to explain it to you in detail.)

See back/side/other panel(s) for additional precautionary statements

NET WT 5 LB (2.27 kg)/10 LB/15 LB/25 LB/50 LB

FIRST AID	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact the National Pesticide Information Center at 1-800-858-7378 for emergency medical treatment information.	
If Swallowed:	<ul style="list-style-type: none"> • Call poison control center 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 the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If Inhaled:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If on Skin or Clothing:	<ul style="list-style-type: none"> • 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:	<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.
NOTE TO PHYSICIAN: Surface contact can produce conjunctivitis, pharyngitis, and rhinitis. Ingestion may cause abdominal pain, nausea and vomiting. Inhalation can induce respiratory stimulation, then depression and possibly seizures. There is no specific antidote. Treatment is supportive.	

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER: Fatal if inhaled or swallowed. Harmful if absorbed through the skin. Causes moderate eye irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Do not breathe dust. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove contaminated clothing and wash before reuse.

Personal Protective Equipment:

Applicators and other handlers must wear long-sleeved shirt and long pants, waterproof gloves, shoes plus socks, and a dust filtering respirator (MSHA/NIOSH) approval number prefix TC-21C or a NIOSH approved respirator with an R, P, or HE filter. Follow manufacturer's instructions 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.
 Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
 Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish. For terrestrial uses, do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Runoff and drift from treated areas may be hazardous to aquatic organisms in adjacent sites. Do not contaminate water when 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. 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, 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.

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

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

- Coveralls
- Waterproof gloves
- Shoes plus socks

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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 entry into treated areas during the restricted entry interval (REI) of 12 hours.

Ornamental, Vegetable, and Fruit Crops:

Use Restrictions: For Commercial Grower/Applicator Use Only – Not for Residential Use. For use on the vegetables, berries, small fruits, and ornamentals listed in the table below. Do not apply to food crops within one (1) day of harvest.

Mixing Directions: Thoroughly mix amount indicated in the table below for the specific insect-crop combination. Follow spray schedule given below in tablespoons per gallon of water. Add water to powder and mix. May be applied with any hand or power sprayer. Do not apply if rain is expected shortly after application.

VEGETABLES

CROP	INSECTS	WHEN TO TREAT	AMOUNT
Asparagus	aphids, asparagus beetle	Apply when insects appear. Repeat as necessary.	19.2 oz. per 10 gal. of water (1.92 oz. per gal). Spray upper and lower leaf surfaces until runoff.
Beets, Radishes, Carrots	flea beetle, thrips, aphids, carrot rust fly		
Broccoli, Brussels Sprouts, Cabbage, Cauliflower	imported cabbage worm, cabbage looper, diamond back moth, aphid		
Tomatoes, Potatoes, Eggplant, Peppers, Pimentos, Sweet Potatoes	Colorado potato beetle, flea beetle, leafhopper, young tomato hornworm, tomato pinworm, tarnished plant bug, stink bug, aphid, thrips, whitefly, mealybugs	Apply when plants are three inches high. Repeat at 5 to 7 day intervals.	32 oz. per 10 gal. of water (3.2 oz. per gal). Spray upper and lower leaf surfaces until runoff.
Beans	red spider, Mexican bean beetle, leafhopper, stink bugs, tarnished plant bug, thrips, aphids, bean leaf beetle		
Celery	parsnip webworm, two-spotted spider mite, tarnished plant bug, carrot rust fly, aphid	Apply thoroughly to plants as soon as they appear above ground. Repeat at 5 to 7 day intervals.	16 oz. per 10 gal. of water (1.6 oz. per gal). Spray upper and lower leaf surfaces until runoff.
Cucumber, Melon, Pumpkin, Squash (Summer & Winter), Watermelon, Cantaloupe	pickleworm, melonworm, cucumber beetle, young squash bug, aphid		
Lettuce, Collard, Kale, Mustard Greens, Spinach, Swiss Chard, Kohlrabi, Okra, Endive, Salsify	flea beetle, harlequin bug, leafhoppers, cabbage worm, looper, stink bug, thrips, whitefly, lygus bug		
Onions, Leeks, Garlic, Shallot	onion thrip		
Peas, Blackeyed Peas, Cowpeas	aphid, leafhopper, thrips		
Turnips, Rutabagas, Parsnips, Horseradish	thrips, flea beetle, harlequin bug, leafhopper, lygus and stink bugs, cabbageworms, parship webworm		

BERRIES AND SMALL FRUIT

Apples, Pears	aphid, leafhopper, tent caterpillar, European apple sawfly, Japanese beetle, pear psylla, red spider mite – repels bagworm	Start to spray when green leaf tips appear. Repeat at 10 day intervals until bloom, and at 14 day intervals after bloom.	32 oz. per 10 gal. of water (3.2 oz. per gal). Spray upper and lower leaf surfaces until runoff
	Codling moth, apple maggot	Apply at petal fall and every 10 to 14 days thereafter until control is achieved.	
Peach, Apricot, Nectarine, Quince, Persimmon, Pomegranite	Codling moth	Apply at petal fall and every 10 to 14 days thereafter until control is achieved.	
	Japanese beetle, June beetle, orange tortrix, tarnished plant bug, tussock moth, red spider mite, aphid	Start to spray when green leaf tips appear. Repeat at 10 day intervals until bloom and at 14 day intervals after bloom.	
Cherries, Plums, Prunes	black cherry aphid, mealy plum aphid, cherry fruit fly, Japanese beetle, tent caterpillar, orange tortrix, tussock moth	Apply at petal fall and every 10 to 14 days thereafter until control is achieved.	
	codling moth, plum curculio		
Citrus Fruit, Lemons, Grapefruit, Kumquats, Limes, Oranges, Tangelos, Tangerines	leaf roller, orange tortrix, citrus aphid, red spider	Start to spray when green leaf tips appear. Repeat at 10 day intervals until bloom, and at 14 day intervals after bloom	64 oz. per 10 gal. of water (6.4 oz. per gal.). Spray upper and lower leaf surfaces until runoff.
Blackberry, Raspberry, Dewberry, Loganberry, Boysenberry, Youngberry	raspberry sawfly, red spider, leaf miner	A week before blossoms open	24 oz. per 10 gal. of water (2.4 oz. per gal.). Spray upper and lower leaf surfaces until runoff.
	raspberry fruit worm, cane borer	10 days after blossoms	
Blueberry, Huckleberry, Grape	flea beetle, grape leaf skeletonizer, Japanese beetle, leafhopper, rose chafer	When insects first appear. Repeat as necessary.	24 oz. per 10 gal. of water (2.4 oz. per gal.). Spray upper and lower leaf surfaces until runoff.
	blueberry maggot	When most of fruit is set	
Currants, Gooseberry	imported currant worm	When most of fruit is set. Repeat as necessary.	24 oz. per 10 gal. of water (2.4 oz. per gal.). Spray upper and lower leaf surfaces until runoff.
	aphid, red spider	When insects first appear. Repeat as necessary.	
Strawberry	leaf roller, weevil, red spider	Before and after blossoming.	24 oz. per 10 gal. of water (2.4 oz. per gal.). Spray upper and lower leaf surfaces until runoff.
	spittlebug	When frothy spittle masses appear. Repeat as needed.	

ORNAMENTALS

Shade Trees	red spider, flea beetle, thrips, Japanese beetle, leaf roller, birch leaf miner, lace bugs, tent caterpillar	Start to spray when green leaf tips appear. Repeat at 10 day intervals.	32 oz. per 10 gal. of water (3.2 oz. per gal.). Spray upper and lower leaf surfaces until runoff.
Flowers, Shrubs	aphids, mites, rose chafer, Japanese beetle, flea beetle, thrips, leafhopper, red spider, and repels bagworms	Start to spray when insects appear. Repeat as necessary.	16 oz. per 10 gal. of water (1.6 oz. per gal.). Spray upper and lower leaf surfaces until runoff.

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Fire Ants (Mound Treatment Only):

Use Restrictions: For commercial applicator/grower use only. Use in lawns, gardens, around buildings, golf courses, campgrounds, and recreational areas.

Mixing Directions: For each mound to be treated, mix 1/2 oz. in 2 gallons of water.

Application Directions: Saturate the mound and surrounding area to a 4-ft. diameter. Application should be made as a gentle rain from a sprinkler can or using low-pressure spray since pressure sprays may disturb the ants causing migration and reducing product effectiveness.

Re-treatment: Repeat in 7-10 days or as necessary. Treat new mounds as they appear.

STORAGE AND DISPOSAL

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

Storage: Store and transport in an upright position. Store only in original container in a dry place away from excessive temperature extremes.

Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by using according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Container Disposal (plastic container): Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Container Disposal (paper/plastic bag): Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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

Recommendation for use of this product are based on tests believed to be reliable. The buyer must assume all responsibility for use of this product when not used in strict accordance with directions or established safe practice, or when used under abnormal conditions not reasonable foreseeable to the seller.

Manufactured by:
Bonide Products, Inc.
Oriskany, NY 13424

