

2217-837

06/25/2001

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Biopesticides and Pollution Prevention Division (7511W)
1200 Pennsylvania Ave., N.W.
Washington, DC 20460

EPA Reg. Number:

2217-837

Date of Issuance:

6/25/01

NOTICE OF PESTICIDE:

Registration
 Reregistration

(under FIFRA, as amended)

Term of Issuance: Unconditional

Name of Pesticide Product:

EI-783 INSECTIDE

Name and Address of Registrant (include ZIP Code):

PBI/Gordon Corporation
P.O. Box 014090
Kansas City, Missouri 64101

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration 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 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.

The Food Quality Protection Act (FQPA) was signed into law on August 3, 1996. Although full implementation of FQPA has not been achieved, the Agency has no reason to believe that the registration of this product will, in any way, violate the terms of the Act. If EPA determines, as a result of the FQPA implementation process, that the decision to register this product is no longer appropriate, the Agency will consider itself free to pursue whatever action may be appropriate, including, but not limited to, reconsideration of the registration decision.

This product is unconditionally registered in accordance with FIFRA Sec. 3(c)(5) provided you:

1. Submit and /or cite all data required for registration/reregistration of your product under FIFRA Sec.3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA Sec.4.
2. Submit five copies of the final printed labeling before you release the product for shipment.
3. Make the labeling changes listed below before you release the product for shipment:

Signature of Approving Official: See page 2 for signature of approving official

Date:

6/25/01

EPA Form 8570-6

CONCURRENCES

SYMBOL	SURNAME	DATE				
7511C	7511C	6/14/01				
		6/21/01				

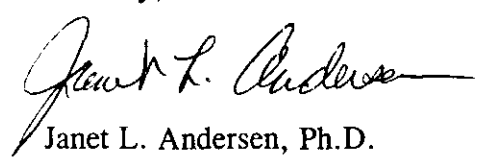
-- Add the phrase "EPA Registration No.2217-837"

This registration will be subject to cancellation in accordance with FIFRA sec. 6(e) if you do not comply with these conditions. Your release for shipment constitutes acceptance of these conditions.

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

Any questions may be directed to Richard King, Regulatory Action Leader for this action, at (703) 308-8052, fax (703) 308-7026.

Sincerely,



Janet L. Andersen, Ph.D.
Director
Biopesticides and Pollution
Prevention Division (7511C)

ACCEPTED

JUN 25 2001

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 2217-B-37

EI-783

RK

ACTIVE INGREDIENT:		
Azadirachtin.....		0.20%
OTHER INGREDIENTS:.....		99.80%
	TOTAL	100.00%

Contains 0.016 Lb. (7.25 grams) azadirachtin per gallon

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID

<p>If on skin or clothing:</p> <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.
<p>If inhaled:</p> <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 mouth-to-mouth if possible. -Call a poison control center or doctor for further treatment advice.
<p>If in eyes:</p> <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.
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</p>

See back (side) panel for additional Precautionary Statements.

NET CONTENTS: (1 pint, 1 quart, 1 gallon)

APxxxxxx
 EPA REG. NO. 2217-IGT
 EPA EST. NO. 2217-KS-1
 MANUFACTURED BY:



KANSAS CITY, MO 64110



READ ENTIRE LABEL BEFORE EACH USE. OBSERVE ALL PRECAUTIONS AND FOLLOW DIRECTIONS CAREFULLY.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION: Harmful if absorbed through skin or if inhaled. Avoid breathing vapor. Causes moderate eye irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

ENVIRONMENTAL HAZARDS:

This product is toxic to fish and aquatic invertebrates. Do not apply directly to water. Do not contaminate water when disposing of equipment washwaters or rinsate.

DIRECTIONS FOR USE

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

Do not enter treated areas without protective clothing until sprays have dried.

Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes, ornamental gardens or parks, and grounds.

Product Description:

Azadirachtin is an insect growth regulator that inhibits growth and disrupts molting. Azadirachtin may be effective as a repellent for certain insects. Also, azadirachtin may serve as a feeding deterrent for some insects.

This product controls pests by contact or by ingestion. Azadirachtin is effective on certain stages of pest growth: larvae, nymphs, and pupae.

Equipment For Foliar Applications:

This product may be applied with hand-operated (manual) or power spray equipment suitable for low volume and/or high volume applications. Follow the recommendations of the equipment manufacturer when using backpack sprayers, hose-end sprayers, compression (pump-up) sprayers, and other garden sprayers suitable for foliar application of insecticides.

Spray preparation with water:

A. For Pump Sprayers:

1. Shake container well before using.
2. Mix only the amount of product needed for the area to be treated.
3. Add one-half (1/2) of the required amount of water to the spray tank.
4. Measure the recommended amount of product and pour the product into the spray tank.
5. Add the balance of water to the spray tank and mix thoroughly before applying.
6. Clean the spray equipment following application.

B. For Hose End Sprayers:

1. Shake container well before using.
2. Determine the area in square feet (sq.ft.) to be treated.
3. Refer to the table for the recommended amounts of product.
4. Measure the recommended amount of product and pour the product into the sprayer jar (bottle).
5. Add water to the appropriate level marked on sprayer jar (bottle) and mix.
6. Attach the sprayer to the garden hose and apply uniformly to the area to be treated.
7. For ornamentals, trees and shrubs presented in Tables 6 and 7: Apply as a fine spray to the upper and lower leaf surfaces on a spray-to-wet basis.
8. Clean the spray equipment following application.

Application Schedules (When To Use):

Applications should be made when the pests first appear, when the pests are in the early growth stages, or when the plant damage is noticed. Azadirachtin is most effective when applied before the insects or eggs are present in large numbers.

Multiple applications may be made on 7-10 day intervals depending upon the severity of the pest problem. The 7-day application schedule may be used for difficult to control pests or for dense infestations.

For food crops, applications of azadirachtin may be made throughout the growing season including the day of harvest.

Applications are recommended during early to mid-morning and during late afternoon to early evening. This is important to maximize the spray contact on the pests and to minimize the potential for leaf burn.

Dosage Rates With Foliar Applications (How Much To Use):

Determine the best application rate for your specific situation by referring to Tables 1-7. Select the proper amount described for the plants and the pests to be controlled. The lower application rate within the range should be used for low pest infestations or used in conjunction with conventional insecticides. The higher application rate within the range should be used for high pest infestations and /or troublesome pests.

For all applications, thorough plant coverage is essential for the best results. For the spray-to-wet applications presented in Tables 6 and 7, apply as a full cover spray to the drip point.

Spray penetration of dense foliage and thorough coverage of all parts of the shrubs, trees, and ornamentals are essential. Azadirachtin is exempt from the requirements of a tolerance for food crops when used as a pesticide at 20 grams (2.75 gallons of product) or less per acre per application on all raw agricultural commodities (40 CFR 180.1119).

Advisory Statements:

- Always check for leaf burn/damage/bronzing on a small scale before using on a large scale.
- Use care with this plant oil-based product on plants with tender/succulent tissues (eg. open blossoms of flowers, shrubs, and trees). Azadirachtin has been evaluated for phytotoxicity on a wide range of plants and ornamentals. Testing on a small scale (small portion of the area to be treated) is recommended before using on a larger scale (entire plant or treated area).

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Table 1

Curcubits	Pests	Early Season fl.oz./ 1,000 sq.ft.	Late Season fl.oz./ 1,000 sq.ft.	Early Season Tablespoons/ 1,000 sq.ft.	Late Season Tablespoons/ 1,000 sq.ft.
cantaloupe, cucumber, gherkin, gourd, honeydew melon, pumpkin, squash, watermelon	budworms, fall armyworms, leafminers, melonworms, pickleworms	1.2—3.0	3.0—6.0	2.4—6.0	6.0—12.0

Table 2

Bulb and Cole Vegetables	Pests	Early Season fl.oz./ 1,000 sq.ft.	Late Season fl.oz./ 1,000 sq.ft.	Early Season Tablespoons/ 1,000 sq.ft.	Late Season Tablespoons/ 1,000 sq.ft.
broccoli, Brussels sprouts, cabbage, cauliflower, Chinese spinach, collard, endive, garlic, kale, kohlrabi, lettuce, mustard greens, onion, parsley, rhubarb, shallots, spinach, Swiss chard, turnip tops	armyworms, cabbage loopers, caterpillars, cutworms, diamondback moth, hornworms, imported cabbageworm, leafminer, thrips, webworms	1.5—3.0	3.0—6.0	3.0—6.0	3.0—12.0
	aphids, weevils	0.75—1.50	1.5—3.0	1.5—3.0	3.0—6.0

Table 3

Legume Vegetables	Pests	Early Season fl.oz./ 1,000 sq.ft.	Late Season fl.oz./ 1,000 sq.ft.	Early Season Tablespoons/ 1,000 sq.ft.	Late Season Tablespoons/ 1,000 sq.ft.
beans, chick pea, eggplant, ground cherry, lentils, pea, pepper, tomato	armyworms, cabbage loopers, caterpillars, cutworms, garden webworms, hornworms, leafminers, loopers, tomato fruitworms, tomato pinworms	1.2 3.0	3.0 6.0	2.4—6.0	6.0—12.0
	bean leaf beetles, Colorado potato beetles, Mexican bean beetles, pepper weevils, weevils	1.5—3.0	3.0—6.0	3.0—6.0	6.0—12.0

Table 4

Root and Tuber Vegetables	Pests	Early Season	Late Season	Early Season	Late Season
		fl.oz./ 1,000 sq.ft.	fl.oz./ 1,000 sq.ft.	Tablespoons/ 1,000 sq.ft.	Tablespoons/ 1,000 sq.ft.
beets, carrot, parsnip, potato, radish, rutabaga, sweet potato, turnip, yams	aphids, armyworms, cabbage loopers, caterpillars, diamondback moths, hornworms, leafhoppers, webworms	1.5—3.0	3.0—6.0	3.0—6.0	6.0 12.0
	Colorado potato beetles, potato flea beetles	0.75—1.50	1.5—3.0	1.5—3.0	3.0—6.0

Table 5

Small Fruits and Berries	Pests	Early Season fl.oz./ 1,000 sq.ft.	Late Season fl.oz./ 1,000 sq.ft.	Early Season Tablespoons/ 1,000 sq.ft.	Late Season Tablespoons/ 1,000 sq.ft.
blackberry, blueberry, boysenberry, elderberry, gooseberry, grape, huckleberry, loganberry, raspberry, strawberry	armyworms, blueberry leafrollers, caterpillars, fruit tree leafrollers, grape berry moths, grape fruitworms, grape leafrollers, hornworms, loopers	1.5--3.0	3.0--6.0	3.2--6.0	6.0--12.0

Table 6

Citrus, Pome and Stone Fruit	Pests	Early Season fl.oz./1 gallon of water	Late Season fl.oz./1 gallon of water	Early Season Tablespoons/ 1 gallon of water	Late Season Tablespoons/ 1 gallon of water
apple, apricot, cherry, grapefruit, lemon, lime, nectarine, orange, peach, pear, plum, quince	aphids, caterpillars, fall webworms, fruit flies, leafhoppers, leafminers,	0.8--1.3	1.3--2.6	1.5--2.6	2.6--5.2
	thrips	0.8--1.3	1.3--2.6	1.5--2.6	2.6--5.2
	beetles, grasshoppers, weevils	0.8--1.75	1.5--2.6	1.5--3.5	3.1--5.2

Table 7

Bedding Plants, Outdoor Flowers, Landscapes, Ornamental, Trees and Shrubs	Pests	Early Season fl.oz./1 gallon of water	Late Season fl.oz./1 gallon of water	Early Season Tablespoons/ 1 gallon of water	Late Season Tablespoons/ 1 gallon of water
amaranthus, aster, azalea, ferns, boxwood, carnation, chrysanthemum, crape myrtle, dahlia, daisy, euonymus, ficus (fig), gardenia, holly, impatiens, iris, ivy, jasmine, lilac, lily, marigold, pitosporum, privet, pyracantha, rhododendron, rose, spirea, zinnia, Trees including, but not limited to: ash, birch, cedar, cotoneaster, cypress, dogwood, fir, elm, juniper, maple, oak, pine, spruce, willow	beetles, thrips, weevils	0.9--1.75	1.75--2.6	1.75--3.5	3.5--5.2
	armyworms, aphids, caterpillars, hornworms, leafminers, loopers, psyllids, spruce budworms, tent caterpillars, webworms, whiteflies	0.9--1.3	1.75--2.6	1.75--2.6	3.5--5.2

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STORAGE AND DISPOSAL**STORAGE:** Keep in original container.**PESTICIDE DISPOSAL:** Securely wrap original container in several layers of newspaper and discard in trash.**CONTAINER DISPOSAL:** Do not reuse container (bottle, can, jar). Rinse thoroughly before discarding in trash.**LIMITED WARRANTY AND DISCLAIMER.**

The manufacturer warrants only that the chemical composition of this product conforms to the ingredient statement given on the label, and that the product is reasonably suited for the labeled use when applied according to the Directions for Use.

THE MANUFACTURER NEITHER MAKES NOR INTENDS ANY OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE EXPRESSLY DISCLAIMED. This limited warranty does not extend to the use of the product inconsistent with label instructions, warnings or cautions, or to use of the product under abnormal conditions such as drought, excessive rainfall, tornadoes, hurricanes, etc. These factors are beyond the control of the manufacturer or the seller. Any damages arising from a breach of the manufacturer's warranty shall be limited to direct damages, and shall not include indirect or consequential damages such as loss of profits or values, except as otherwise provided by law.

The terms of this Limited Warranty and Disclaimer cannot be varied by any written or verbal statements or agreements. No employec or agent of the seller is authorized to vary or exceed the terms of this Limited Warranty and Disclaimer in any manner.