



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number:

432-1407

Date of Issuance:

SEP 22 2004

NOTICE OF PESTICIDE:

 x Registration

 Reregistration

(under FIFRA, as amended)

Term of Issuance: Conditional

Name of Pesticide Product:

Bay 4574 Granular Insecticide

Name and Address of Registrant (include ZIP Code):

Mr. Richard M. Gorrell
Bayer Environmental Science
95 Chestnut Ridge Road
Montvale, NJ 07645

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/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 product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A). Once a pesticide is registered, however, it is not regarded as permanently acceptable. Registration does not eliminate the need for continual reassessment of pesticides. If the Agency determines that, at any time, additional data are required to maintain in effect an existing registration, the Agency will require submission of such data under FIFRA section (3)(c)(2)(B).

- 1. Revise the EPA Registration Number to read, "EPA Reg. No. 432-1407"

Signature of Approving Official:

Dani Daniel
Insecticide-Rodenticide Branch
Registration Division (7505C)

Date

SEP 22 2004

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2. Applicant must submit to the Agency the results of a one year product's storage stability and corrosion characteristics study as per the regulations of GRN 830.6317 and 830.6320.

3. Submit two (2) copies of your final printed labeling before you release the product for shipment.

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

A stamped copy of the label is enclosed for your records. If you have any questions regarding this notice, please contact me at (703) 305-5409.

Enclosure :

BAY 4574 Insecticide

For general insect control in turfgrass areas including athletic fields and parks and residential, commercial, industrial, institutional, and recreational lawns. Not for use on golf courses or sod farms.

ACTIVE INGREDIENT:

- Imidacloprid*, 1-[(6-Chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine..... 0.2%
- Bifenthrin** 0.16%

OTHER INGREDIENTS: 99.64%
..... 100.0%

EPA Reg. No. 432-xxxx

* Protected by U.S. Patent No. 4,742,060

** Cis isomers 97% minimum, trans isomers 3% maximum.

Bifenthrin: U.S. Patent No. 4,238,505

ACCEPTED
with COMMENTS EPA Est. No. ____
In EPA Letter Dated:

SEP 22 2004

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 432-1407

STOP - Read the label before use.
Keep out of reach of children.

CAUTION

For MEDICAL and TRANSPORTATION Emergencies ONLY Call 24 Hours A Day 1-800-334-7577
For PRODUCT USE Information Call 1-800-331-2867

FIRST AID

If swallowed	<ul style="list-style-type: none"> • Call a 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 a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If on skin	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 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 to 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.

In case of emergency call toll free the Bayer Environmental Science Emergency Response Telephone No. 1-800-334-7577. Have a product container or label with you when calling a poison control center or doctor, or going for treatment.

Note To Physician: No specific antidote is available. Treat the patient symptomatically.

This product contains a pyrethroid. If large amounts have been ingested, milk, cream and other digestible fats and oils may increase absorption and so should be avoided.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride.
- Shoes plus socks

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 Recommendation:

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 and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate. Run-off may be hazardous to aquatic organisms in water adjacent to treated areas

This product contains a chemical with properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

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 requirement specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Do not formulate this product into other end-use products.

STORAGE AND DISPOSAL

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

Pesticide Storage: Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If material is spilled for any reason or cause, carefully contain any spilled material to prevent non-target contamination. Do not walk through spilled material and dispose of as directed for pesticides above. Refer to Precautionary Statements on label for hazards associated with the handling of this material. In spill or leak incidents, keep unauthorized people away. You may contact the Bayer Environmental Science Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Bayer Environmental Science Emergency Response Telephone No. is 1-800-334-7577 or contact Chemtrec at 800-424-9300.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: Completely empty bag into application equipment. Dispose of empty bag in a sanitary landfill, by incineration, or if allowed by the state and local authorities, by burning. If burned, stay out of smoke.

GENERAL INFORMATION**APPLICATION TO TURFGRASS**

BAY 4574 can be used for the control of soil inhabiting pests of turfgrass, such as northern and southern masked chafers, *Cyclocephala borealis*, *C. immaculata*, and/or *C. lurida*; Asiatic garden beetle, *Maladera castanea*; black vine weevil, *Otiorhynchus sulcatus*, European chafer, *Rhizotrochus majalis*; green June beetle, *Cotinis nitida*; May or June beetles, *Phyllophaga* spp.; Japanese beetle, *Popillia japonica*; oriental beetle, *Anomala orientalis*; sugarcane grub, *Euethola humilis rugiceps*; billbugs, *Spherophorus* spp.; annual bluegrass weevil, *Hyperodes* spp.; black turfgrass ataenius, *Ataenius spretulus*; *Aphodius* spp; European crane fly, *Tipula paludosa*; frit fly, *Oscinella frit*; chinch bugs, *Blissus* spp.; fire ants, *Solenopsis* spp.; cutworms, *Agrotis ipsilon*, *Peridroma saucia*, *Nephalodes menians*; armyworms, *Spodoptera* spp., *Pseudaletia* spp.; sod webworm, *Crambus* spp.; and mole crickets, *Scapteriscus* spp. BAY 4574 can be used as directed on turfgrass in sites such as home lawns, business and office complexes, shopping complexes, multi-family residential complexes, airports, cemeteries, parks, playgrounds, and athletic fields.

The active ingredients BAY 4574 have sufficient residual activity so that applications for control of subsurface feeders can be made preceding the egg laying activity. The need for an application for control of subsurface feeders can be based on historical monitoring of the site, previous records or experiences, current season adult trapping or other methods. Optimum control of subsurface feeders will be achieved when applications are made prior to egg hatch of the target pest, followed by sufficient irrigation or rainfall to move the active ingredient through the thatch.

The active ingredients in BAY 4574 have sufficient knockdown and residual activity to provide curative and residual control of surface feeding pests. Applications for control of surface feeding pests can be made when infestations are anticipated based on historical monitoring of the site, previous records or experience, current season adult trapping or presence of insects at economic thresholds as determined by scouting and/or recommendations of local State extension personnel or other qualified specialists.

Applications should not be made when turfgrass areas are waterlogged or the soil is saturated with water. Adequate distribution of the active ingredient cannot be achieved when these conditions exist. The treated turf must be in such a condition that the rainfall or irrigation will penetrate vertically in the soil profile. Total amount applied cannot exceed a total of 125 lb (0.5 lb of iridacloprid, 0.4 lb of bifenthrin) per acre per year.

NOTE: Not for use in commercial greenhouses or on grass grown for seed or on golf courses and sod farms. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior plantscapes, ornamental gardens or parks, or on lawns and grounds.

APPLICATION EQUIPMENT

Apply BAY 4574 uniformly over the area being treated with normally used granular application equipment. Both drop-type and rotary-type spreaders may be used to apply BAY 4574. Avoid the use of spreaders that apply the material in narrow, concentrated bands. Calibrate application equipment prior to use according to the manufacturer's directions. Check frequently to be sure equipment is working properly and distributing granules uniformly and accurately.

RECOMMENDED APPLICATIONS		
(Be sure to read "APPLICATION EQUIPMENT" Section of this label)		
CROP	PEST	DOSAGE BAY 4574
Turfgrasses	Larvae of subsurface feeders: Green June beetle Asiatic garden beetle Black turfgrass ataenius Black vine weevil European chafer European crane fly	100 to 125 lb per acre or 2.4 to 3 lb per 1000 sq ft
	Adults and/or larvae of surface feeders: Annual bluegrass weevil Billbugs Chinch bugs	75 to 125 lb per acre or 1.5 to 3 lb per 1000 sq ft
		75 to 125 lb per acre or 1.5 to 6 lb per 1000 sq ft or or a single annual application of 200 to 250 lb per acre or 4.8 to 6 lb per 1000 sq ft
		Mole crickets ²
	Larvae of surface feeders: Armyworm	Cutworm Sod webworms

Consult your local State Agricultural Experiment Station, or State Extension Turf Specialists for more specific information regarding timing of application.

NOTE: For optimum control, irrigation or rainfall should occur within 24 hours after application to move the active ingredient through the thatch. Irrigate treated areas following application. Do not apply more than 250 lb product per acre (0.5 lb of imidacloprid active ingredient, 0.4 lb bifenthrin) per acre per year. Do not apply more than 125 lb product per acre (0.25 lb imidacloprid, 0.2 lb bifenthrin) per application except for mole cricket control. Avoid mowing turf or lawn area until after irrigation or rainfall has occurred so that uniformity of application will not be affected.

¹Imported Fire ants: BAY 4574 may be applied as a broadcast treatment at 3 lb. per 1000 sq. ft. and/or as a mound treatment by applying ½ cup of BAY 4574 per mound and then drenching the mound with 1 to 2 gallons of water. The mounds should be treated with sufficient force to break their apex and allow the insecticide to flow into the ant tunnels. Application of 125 lb./acre of BAY 4574 will provide six months residual activity for control of foraging Imported Fire Ants and newly mated Fly-In Queens.

²Mole crickets: For maximum effectiveness, apply BAY 4574 as a broadcast treatment at 3 lb. per 1000 sq. ft. prior to or during the peak egg hatch period. For application when both adults and/or large nymphs are present and actively tunneling, irrigate prior to application if soil is dry and apply 3 lb. per 1000 sq. ft. Rainfall or additional irrigation within 24 hours after application will improve effectiveness of BAY 4574. For heavily infested mole cricket areas, use a single seasonal application rate of 200 to 250 lb per acre.

Spreader settings for BAY 4574			
The following chart can be used as a guide in establishing an accurate rate of BAY 4574. Application rates will vary depending upon speed, equipment wear and condition of spreader. Carefully calibrate application equipment prior to commercial use of this product.			
SPREADER	SPEED (mph)	SETTINGS	
		50 lb/A	100 lb/A
Cyclone Way	3	1.53	4
Earthway 2400 (no information available)			
Gandy Turf Tender 24" (no information available)	3		
Gandy Turf Tender 42" (no information available)	3		
Lely	4.5	3 ¾	4 ¼
Lesco Broadcast	3	C	D
PSB Prizelawn CBR-III	3	3	3 ½
Scott's Proturf R-8A	3	H	J
Scott's Proturf SR-2000	3	1	K
Scott's Handy Green (obsolete)	3	2	3
Scott's Accupro	3	4 ½	4-3/4
Spyker	3	3.0	3.4
Vicon Model 402	4.5	11	14

RESTRICTIONS

Avoid runoff or puddling of irrigation water following application. Avoid application of BAY 4574 to areas which are waterlogged or saturated, which will not allow penetration into the root zone of the plant. Do not apply more than 250 lb (0.5 lb of imidacloprid and 0.4 lb of bifenthrin) per acre per year.

Treated areas may be replanted with any crop specified on an imidacloprid or bifenthrin label, or with any crop for which a tolerance exists for the two active ingredients.

For crops not listed on any imidacloprid or a bifenthrin label, or for crops for which no tolerances for the active ingredient have been established, a 12-month plant-back interval should be observed.

Do not apply by air.

Do not apply by any type of irrigation system.

Not for use on nurseries or commercial greenhouses.

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of liability before using this product.

If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following conditions, disclaimer of warranties and limitations of liability.

CONDITIONS: The directions for use of this product are believed to be adequate and should be followed carefully. However, because of manner of use and other factors beyond Bayer Environmental Science's control it is impossible for Bayer Environmental Science to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible. All such risks shall be assumed by the user or buyer.

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