



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

EPA Reg. Number:

69075-4

Date of Issuance:

MAY 21 1997

Term of Issuance:

Conditional

Name of Pesticide Product:

Mach 2  
Granular Turf  
Insecticide

NOTICE OF PESTICIDE:

☒ Registration  
☐ Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

RohMid, LLC.  
100 Independence Mall West  
Philadelphia, PA 19106-2399

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)(C) of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended. Therefore, in accordance with sec. 3(c)(7)(C) the conditional registration of the subject product is issued subject to the terms and conditions stated below:

1. Submit the following data required for registration of your product under FIFRA sec. 3(c)(5):

- a) A Prospective Ground Water Study (PGW) in accordance with current PGW protocols. The test site must be located in an area which is representative of use in accordance with label directions, or in accordance with widespread and commonly recognized practice, including vulnerable and typical use situations. The final report from this study must be submitted no later than December 31, 2001. A protocol must be submitted within six months.
- b) An aerobic soil metabolism study. The study that was submitted was not acceptable because of the disparity in the aerobic soil metabolism half-lives. An explanation for the ten-fold difference observed in the aerobic soil metabolism half-lives must be provided. In addition, aerobic soil metabolism rate studies conducted on at least ten different soils must be submitted in an attempt to determine if the

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silt loam or sandy loam soil half-lives are typical of the degradation of halofenozide in the environment. These studies should be designed to track the degradation of the parent compound, and should not require radiolabeling or intensive sampling intervals. These studies must be submitted no later than May 31, 1998. Results of these studies will be used in selection of the appropriate site for the PGW study above.

- c) The results of an 18 month terrestrial dissipation study currently in progress must be submitted. This data must be submitted no later than May 31, 1998.
- d) A fish full life-cycle study must be submitted no later than May 31, 1998.

2. RohMod LLC. will submit production information (pounds or gallons produced) for this product for the fiscal years in which the use on turf grass is conditionally registered in accordance with FIFRA Section 29. Fiscal years begin October 1, and end September 30. The information must be submitted to:

Registration Support Branch  
Registration Division (7505W)  
Environmental Protection Agency  
401 M Street, SW  
Washington, DC 20460

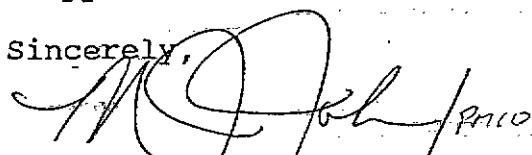
3. Add the phrase "EPA registration No. 69075-4 to your label before you release your product for shipment.

4. Submit two (2) copies of the revised final printed label for the record.

Understand that this registration will expire on May 31, 1998 if the respective data required by that date has not been submitted. If the required data has been submitted, the registration will remain in effect until December 31, 2001 at which time it will expire unless the respective data required by that due date has also been submitted. Your release for shipment of the product constitutes acceptance of these conditions.

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

Sincerely,



Marion J. Johnson, Jr.  
Product Manager 10  
Insecticide & Rodenticide Branch  
Registration Division (7505C)

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# MACH 2™

## GRANULAR TURF INSECTICIDE

FOR CONTROL OF IMMATURE STAGES OF CERTAIN INSECTS IN  
TURFGRASS

### ACTIVE INGREDIENT

Halofenozide

Benzoic acid, 4-chloro-, 2 benzoyl-2-(1,1-dimethylethyl) hydrazide .....1.5%

INERT INGREDIENTS .....98.5%

100.0%

STORE IN A DRY PLACE

EPA Reg. No. 69075-

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

Net Weight: \_\_\_\_\_ Pounds

EPA Establishment No. \_\_\_\_\_

69075-4

Notice: Before using this product, read entire Precautionary Statements, Conditions of Sale and Warranty, Directions for Use, Use Restrictions, and Storage and Disposal Instructions.

KEEP OUT OF REACH OF CHILDREN

### CAUTION/PRECAUCION!

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.)

### STATEMENT OF PRACTICAL TREATMENT

**IF SWALLOWED:** Call a physician or Poison Control Center. Drink one or two glasses of water and induce vomiting by touching back of throat with finger. If person is unconscious, do not give anything by mouth and do not induce vomiting.

**IF ON SKIN:** Wash with plenty of soap and water. Get medical attention.

**IF IN EYES:** Flush eyes with plenty of water. Consult a physician if irritation persists.

**IF INHALED:** Move victim to fresh air.

### PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

### CAUTION

May cause eye irritation. Harmful if absorbed through skin, inhaled, or swallowed. Avoid breathing dust. Avoid contact with eyes, skin, or clothing.

## WPS USES

Applicators and other handlers who handle this pesticide for any use covered by the Worker Protection Standard (40CFR part 170) - in general, agricultural plant uses are covered - must wear:

- long-sleeved shirt and long pants
- waterproof gloves
- 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.

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standards (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handlers PPE requirements may be reduced or modified as specified in the WPS.

## NON-WPS USES

Applicators and other handlers who handle this pesticide for any use NOT covered by the Worker Protection Standard (40CFR part 170) - in general, only agricultural plant uses are covered by the WPS - must wear:

- Shirt and pants
- Gloves
- Shoes plus socks

## 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.

## ENVIRONMENTAL HAZARDS

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. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

This chemical has the 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 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 worker 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 turf, plants, soil or water, is:

- Coveralls
- Waterproof gloves
- Shoes plus socks

**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.

**STORAGE AND DISPOSAL**

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

**STORAGE:** Store in a cool, dry, well-ventilated area. Prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of reach of children.

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your local State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA region office for guidance.

**CONTAINER DISPOSAL:** Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill, by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Appropriate protective equipment must be worn when handling a spill of this material. If the container is leaking or material spilled for any reason or cause, carefully sweep material into a pile. Refer to PRECAUTIONARY STATEMENTS on label for hazards associated with handling of this material. Do not walk through spilled material. Dispose of pesticide as directed above. In spill or leak incidents, keep unauthorized people away.

**IN CASE OF AN EMERGENCY ENDANGERING LIFE OR PROPERTY INVOLVING THIS PRODUCT, CALL DAY OR NIGHT 1-800-424-9300.**

## GENERAL INFORMATION

MACH 2™ Granular Turf Insecticide can be used as directed on any turfgrass site (lawns, sod, turf areas). Examples of such sites include, but are not limited to: residential and commercial lawns, grounds or lawns around business and office complexes, shopping centers, multi-family and residential apartment complexes, airports, military and other institutions, cemeteries, parks and picnic areas, playgrounds, schools, athletic fields, golf courses, and sod farms.

MACH 2 mimics the action of a natural insect hormone which induces the molting and metamorphosis process in insects. MACH 2 is highly active against grubs and lepidopterous larvae listed as target pests. MACH 2 controls listed larvae through a novel mode-of-action which starts within hours of ingestion. Actual death of larvae may take several days to occur.

## USE RATE DETERMINATION

Carefully read, understand, and follow label use rates, recommendations and restrictions. Apply the amount specified in the following table with a properly calibrated granular spreader. Check calibration periodically to ensure that equipment is working properly. Avoid overlaps that will increase rates above those recommended. Failure to follow the DIRECTIONS FOR USE and all precautions on this label may result in grass injury or poor pest control.

## APPLICATION TIMING

The activity of MACH 2™ Granular Turf Insecticide is expressed following ingestion by the target larvae. Consequently the timing of application is dependent upon the feeding behavior of the target pest. Consult your local State Extension Specialists for more specific information regarding timing of applications.

To achieve optimal effectiveness, the following turf management practices are suggested:

- **minimize thatch** since heavy thatch will prevent the insecticide from penetrating to the area where insects are feeding.
- **apply when larvae are small** and actively feeding
- **MACH 2 is not dependent upon irrigation for activation.** However, avoid mowing turf until after product is washed from leaf blades so that uniformity of application is not affected.

USE DIRECTIONS FOR TURFGRASS		
PEST	Amount of MACH 2 1.5G	COMMENTS
larvae of cutworms, sod webworms, armyworms, fall armyworms	67 lbs./Acre (1.55 lb./1,000 sq. ft.)	Apply at first sign of pest damage. A single repeat application can be made if needed.
<b>White grub larvae such as:</b> Japanese beetle, <i>Popillia japonica</i> Northern masked chafer, <i>Cyclocephala borealis</i> Southern masked chafer, <i>Cyclocephala lurida</i> European chafer, <i>Rhizotrogus majalis</i> Oriental beetle, <i>Exomala orientalis</i> Asiatic garden beetle, <i>Maladera castanea</i> May/June beetle, <i>Phyllophaga</i> spp. Black turfgrass ataenius, <i>Ataenius spretulus</i> Green June Beetle, <i>Cotinus nitida</i> Annual bluegrass weevil larvae, <i>Hyperodes</i> spp. billbugs, <i>Sphenophorus</i> spp. Aphodius beetle, <i>Aphodius</i> spp.	100-127 lbs./ Acre (2.3-2.9 lbs./ 1,000 sq. ft.)	MACH 2 may be used as either a preventative or curative treatment. Make only one application.

Do not apply more than 133 lbs. (2 lbs. active ingredient) per acre per year regardless of pests controlled.

SUGGESTED SPREADER SETTINGS					
31 lbs. treats 20,000 sq. ft. at the 1.55 lbs. product per 1000 sq. ft. rate.					
Spreader	Ground or PTO Speed	Width of Coverage	Recommended Rate Range (lbs. of Product Per 1000 sq. ft.)		Pattern Setting
			1.55	2.3	
Lesco Rotary	3 mph	8 feet	D <sup>1/2</sup>	F <sup>1/4</sup>	0.0
Scott Rotaries R-8, R-8A. SR-1 (cone 9)	3 mph	8 feet	I	K	6
R-7, R-7X	3 mph	8 feet	H	H <sup>3/4</sup>	6
Lely Models (see below)	4.5 mph	22 feet	3 <sup>1/2</sup>	3 <sup>3/4</sup>	II - C
Vicon (Model 03)	5.6 mph	19 feet	24	30	
PrizeLawn	3 mph	4 feet	3 <sup>1/4</sup>	3 <sup>1/2</sup>	A

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Lely models WTR, WFR, HR and 1250. PTO at 450 rpm.

**This is only a guide to begin calibrating equipment listed.** Age, condition of spreader, and operator speed can cause wide variation in application rate. Carefully calibrate all equipment being used to apply MACH 2 Granular prior to each application by the operator.

#### DISCLAIMER

The label instructions for use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the use or application of the product contrary to label instructions, all of which are beyond the control of RohMid L.L.C.. All such risks shall be assumed by the user.

RohMid L.L.C. warrants only that the material contained herein conforms to the chemical description on the label and is reasonably fit for the use therein described when used in accordance with the directions for use, subject to the risk referred to above.

Any damages arising from a breach of this warranty shall be limited to direct damages and shall not include consequential commercial damages such as loss of profits or values or any other special or indirect damages.

RohMid L.L.C. makes no other express or implied warranty, including other express or implied warranty of FITNESS or of MERCHANTABILITY.

A Product of  
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