

MACH 2

Granular Turf Insecticide

ACCEPTED
OCT 22 1997
 Under the Federal Insecticide, Fungicide and Rodenticide Act, MACH 2 is registered for the pesticide registered under EPA Reg. No. 69075-4

FOR CONTROL OF IMMATURE STAGES OF CERTAIN INSECTS IN TURFGRASS

ACTIVE INGREDIENT
 Halfefenazine
 Benzocic 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. 69075-4

EPA Est. No. 5905-GA-01

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! PRECAUTION!

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. 1 person is conscious, 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 (40 CFR 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 Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4-6)), the handlers PPE requirements may be reduced or modified if 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 (40 CFR 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 adjacent 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 protective 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 intervals. The requirements in this box only apply to uses of the 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 soil, 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 24" metal tray. Avoid overfills that will increase rates above those recommended. Follow the DIRECTIONS FOR USE and all precautions of this label may result in grass injury or poor pest control.

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 grub and lepidopterous larvae (eaten 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 turf equipment is working properly. Avoid overfills that will increase rates above those recommended. Failure to follow the DIRECTIONS FOR USE and all precautions of 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 1.5% lb./Acre	COMMENTS
Larvae of cutworms, sod webworms, armyworms, and true armyworms	67 lb./Acre (1.55 lb./1,000 sq. ft.)	Apply if first sign of pest damage. A single repair application can be made if needed.
White grub larvae such as: Japanese beetle, Popillia japonica Northern masked chaffer, Cyclocephala borealis Southern masked chaffer, Cyclocephala lurida European chaffer, Rhizotrogus majalis Oriental beetle, Formicaria orientalis Asiatic garden beetle, Melolontha castaneae May/June beetle, Phyllopertha horticola Black hairygrass stemworm, Acanthia spiralis Green June beetle, Cotinus nitida Annual bluegrass weevil larvae, Hyperodes spp. Billbugs, Sphenophorus spp. Aphodius beetle, Aphodius spp.	100 lbs./Acre (2.3 lb./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 lb. (2 lbs. active ingredient) per acre per year regardless of pests controlled.
 FOR SOOD FARMS: Allow at least 7 days to elapse between last application and harvest of sod.

SUGGESTED SPREADER SETTINGS

31 lbs. treats 20,000 sq. ft. at the 1.55 lb. product per 1,000 sq. ft. rate.

Spreader	Ground or PTO Speed	Width of Coverage	Recommended Rate Range (lb. of Product Per 1,000 sq. ft.)		Pattern Setting
			1.5%	2.3%	
Lesco Rotary	3 mph	8 feet	2 ^{1/2}	2 ^{1/2}	GR
Scott Rotaries R, R, BA, SR-1 (cone 3)	3 mph	8 feet	I	K	S
Scott Rotaries R-7, R-7X	3 mph	8 feet	H	H ^{1/2}	S
Lady Models (see below)	4.5 mph	22 feet	2 ^{1/2}	3 ^{1/2}	II, C
Vicon (Model 03)	5.6 mph	19 feet	2 ^{1/2}	3 ^{1/2}	
Pro-Turn	3 mph	4 feet	2 ^{1/2}	2 ^{1/2}	A
Lady models WTR, WFR, HR and 1250, PTO at 450 rpm					

This is only a guide to begin calibrating equipment based. Age, condition of spreader, and operator speed can cause wide variance in application rate. Carefully calibrate all equipment being used to apply MACH 2™ Granular Turf Insecticide 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 instructions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks otherwise 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 directions, all of which are beyond the control of Reithold L.L.C. All such risks shall be assumed by the user.

Reithold 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 noted 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 value or any other special or indirect damages.

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

IN CASE OF AN EMERGENCY ENDANGERING LIFE OR PROPERTY INVOLVING THIS PRODUCT, CALL DAY OR NIGHT 1-800-424-8300.



Net Weight: 33.3 lbs.

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