

Reg # 45639-100

PM-19

File 197

United States Environmental Protection Agency  
Washington, D.C. 20460

Office of  
Prevention, Pesticides and  
Toxic Substances

1003

Richard R Stevens  
NOR-AM CHEMICAL COMPANY  
3509 SILVERSIDE ROAD  
WILMINGTON DE 19803

Subject: Label Amendment Submission of 06/03/93  
in Compliance with WPS Labeling Requirements  
EPA Reg No. 45639-100  
TURCAM 2 1/2 G

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is accepted subject to the comments listed below.

Based on your certification, the Agency has accepted only those changes to your labeling which are necessary to comply with PR Notices 93-7 and 93-11, which reflect the WPS labeling requirements of 40 CFR part 156, subpart K. Any other labeling changes submitted in connection with this amendment application and not directly related to compliance with PR Notice 93-7 or 93-11 have neither been reviewed nor accepted by the Agency. If you wish to make any such changes, you must submit a separate amendment application proposing them. If your product registration is currently suspended, acceptance of this labeling amendment does not affect the suspension in any way.

A copy of your proposed labeling stamped "Accepted with comments" is attached. Make any required changes described in the attached and send three copies of final labeling as soon as it is available to:

Document Processing Desk (FIN-LABEL)

297  
Office of Pesticide Programs (H-7504C)  
U.S. Environmental Protection Agency  
401 M Street SW  
Washington, DC 20460-0001

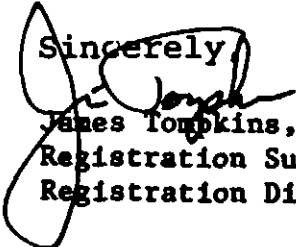
Hand or courier deliveries of final labels may be made to:

Document Processing Desk (FIN-LABEL)  
Room 266A Crystal Mall 2  
1921 Jefferson Davis Highway  
Arlington, VA 22202

Please correct the typographical errors circled on the draft before printing final labeling.

In your final labeling the "Agricultural Use Requirements" text must be contained in a clearly separate box. This box may be set apart by a line, by another graphical device, by a different color background, or in any other way that clearly distinguishes it from surrounding text.

Sincerely,

  
James Tompkins, Deputy Chief  
Registration Support Branch  
Registration Division (7505W)

397

NOR-AM CHEMICAL COMPANY  
TURCAM 2 1/2 G  
45639-100 06/03/93  
Original Submission

The soil incorporation exception should be placed directly beneath the REI statement.

**RESTRICTED USE PESTICIDE**

**Due to Aquatic and Avian 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.

**BEST AVAILABLE COPY**

# Turcam 2 1/2 G

## INSECTICIDE

For Use on Ornamental Trees, Shrubs and Turf  
DO NOT USE ON FOOD CROPS

**ACTIVE INGREDIENTS:**

Beta-Cyfluthrin (2-aminophenyl-3,1,1-trimethyl-4-oxo-5-oxaphosphorothioic acid ester)

By Weight

**INERT INGREDIENTS:**

TOTAL

EPA Reg. No. 45639-100

**KEEP OUT OF REACH OF CHILDREN**

## CAUTION

### STATEMENT OF PRACTICAL TREATMENT

THIS PRODUCT IS AN N-METHYL CARBAMATE

IF SWALLOWED

Induce vomiting by drinking 1-2 glasses of water and then 1-2 glasses of 1% sodium bicarbonate solution. Do not induce vomiting if the person is unconscious or has a history of seizures.

IF INHALED

IF ON SKIN

IF IN EYES

NOTE TO PHYSICIAN

**NOR-AM**

Net Weight:

537

## PRECAUTIONARY STATEMENTS

### HAZARD TO HUMANS AND DOMESTIC ANIMALS

## CAUTION

Harmful if swallowed. Do not take internally. Do not breathe dust. Avoid contact with skin, eyes, or clothing. May be absorbed through the skin. Avoid contamination of feed and foodstuffs.

### PERSONAL PROTECTIVE EQUIPMENT

Applicators and Other handlers must wear:

- > Long-sleeved shirt and long pants
- > 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.

### ENGINEERING CONTROLS STATEMENTS

When handlers use closed systems, enclosed cabs, or aircraft 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 handler PPE requirements may be reduced or modified as specified in the WPS.

### USER SAFETY RECOMMENDATIONS

Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and wildlife. Birds, especially waterfowl, feeding or drinking on treated areas may be killed. Avoid overlapping granules. Avoid applications to bare soil or thin grassy areas where product may be more readily consumed by birds feeding on areas of exposed soil. Also avoid applications in ecologically sensitive areas (e.g., adjacent to wetlands or wildlife preserves) or to areas where birds are known to feed (i.e., near bird feeders or near ponds where waterfowl graze or feed). Subsurface application is recommended for grubs and mole crickets. 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 from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water by cleaning of equipment or disposal of waste. Collect, cover or incorporate granules spilled on soil surface.

This product is highly toxic to bees exposed to direct treatment or residues on plants. Protective information may be obtained from your Cooperative Agricultural Extension Service.

**IMPORTANT:** Read the entire Directions for Use and Disclaimer of Warranties before using this product.

**IN CASE OF FIRE, LEAKY OR DAMAGED CONTAINERS, OR OTHER EMERGENCY, REPORT AT ONCE BY TOLL-FREE TELEPHONE TO: 800-424-8300.**

## 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 in your State responsible for pesticide regulation.

Store this product in its original, closed container in a dry, locked area away from children and domestic animals. Do not reuse empty container.

### 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, 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 plants, soil, or water, is:

- > Coveralls
- > Waterproof gloves
- > Shoes plus socks

Exception: If the product is soil-incorporated, the Worker Protection Standards, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

### 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.

Keep children and pets off treated area during irrigation and until area has dried.

**PESTICIDE DISPOSAL:** Securely wrap original container in several layers of newspaper and discard in trash.

**CONTAINER DISPOSAL:** Do not reuse bag. Discard bag in trash.

ACCEPTED  
with COMMENTS  
In EPA Letter Dated

1993

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

45639-100

**BEST AVAILABLE COPY**

**GENERAL INFORMATION:** TURCAM 2½G is a broad spectrum residual insecticide for the control of certain insects on ornamental trees, shrubs, and turf.

Do not apply more than 240 lbs. of TURCAM 2½G per acre per year. Spring applications must not exceed 120 lbs. of TURCAM 2½G per acre.

Irrigation prior to application in dry conditions may improve product performance.

Use on established turf; do not apply to thin turf with exposed soil.

**ENDANGERED SPECIES RESTRICTIONS:** The use of any pesticide in a manner that may kill or otherwise harm an endangered or threatened species or adversely modify their habitat is a violation of federal laws. The use of this product on golf courses and sod farms in San Bernardino County, California and on the islands of Hawaii and Maui is prohibited.

**ORNAMENTAL TREES, SHRUBS, AND TURF RECOMMENDATIONS:** Use TURCAM 2½G to control specified pests of ornamental turf and of the following nonedible ornamental trees and shrubs: Abies, Acer, Albortia, Azalea, Barberr, Birch, Boxwood, Brassia, Camellia, Cedar, Cephalotaxus, Cercis, Cherry, Cornus, Cotoneaster, Crataegus, Crape Myrtle, Euonymus, Fatsia, Ficus, Fountain grass, Flowering almond, Flowering crabapple, Gardenia, Hemlock, Hydrangea, Ilex, Ixora, Japanese yew, Juniper, Ligustrum, Lilac, Loquat, Mahonia, Mimosa, Mock Orange, Nandina, Oleander, Pachysandra, Photinia, Picea, Platanus, Pine, Poinsettia, Pomegranate, Poplar, Prunus spp., Pseudotsuga, Pyracantha, Pyrus, Rhododendron, Rose, Sage palm, Schefflera, Spirea, Sycamore, Taxus, Thuja, Tsuga, Viburnum, Weigela, Yucca.

#### APPLICATION PROCEDURES

Apply TURCAM 2½G to give complete and uniform coverage of the pest-infested areas. Applications should be made using the rates below.

For control of white grubs, apply when pests become evident. Control of grubs is best when they are still small; therefore late summer applications are preferable to spring. Irrigate as soon as possible, preferably within six hours after completing applications with ½–¾ inches of water to encourage movement of TURCAM 2½G into soil and to reduce chances of contact with non-target organisms.

For surface-feeding and surface-dwelling insects, apply when pests are evident. Use adequate quantity of water to moisten grass and thatch after application.

Apply TURCAM 2½G to give complete and uniform coverage of the pest-infested areas. Applications should be made using the rates shown below:

#### SURFACE APPLICATION

Pest	Dosage of Product	
	Lb/Acre	Lb/1,000 sq. ft.
White grubs of: Japanese beetle, Black turf grass Aeneas, European chafar, Northern masked chafar, Southern masked chafar, Green June beetle, Annual white grub ( <i>Cyclocephala immutabilis</i> ) Mole crickets	80 to 120	1.9 to 2.8
Surface dwellers and/or feeders: Chinchbugs, Leafhoppers, Sod webworms, Ants, Brown dog ticks, Centipedes, Chickadees, Earwigs, Firebrats, Fleas, Ground beetles, Millipedes, Pillbugs, Scorpions, Silverfish, Sowbugs, Spiders.	40 to 80	0.9 to 1.9
SUBSURFACE APPLICATION		
Pest	Dosage of Product	
	Lb/Acre	Lb/1,000 sq. ft.
White grubs of: Japanese beetle, Southern masked chafar Mole crickets	80 to 120 50 to 80	1.9 to 2.8 1.1 to 1.8

Allow 14 days between applications of TURCAM 2½G.

#### LANDSCAPE PLANT RECOMMENDATIONS:

Use TURCAM 2½G to control specified pests of nonedible ornamental landscape plants including, but not limited to: Agave, Azalea, Begonia, Calceolus, Catocala, Chrysanthemum, Coleus, Dahlia, Dianthus, Ferns, Fuchsia, Gazania, Geranium, Holly, Hyposcoides, Impatiens, Iris, Ivy, Kalandra, Lily of the Valley, Marigold, Nasturtium, Nicotiana, Pansy, Petunia, Portulaca, Salvia, Shasta daisy, Snapdragon, Verbena, Vinca, and Zinnia.

Apply TURCAM 2½G to give complete and uniform coverage of the pest-infested areas. Applications should be made using the rates in the above table and applied below or around the landscaped area.

#### PLANT SAFETY

TURCAM 2½G has demonstrated excellent plant safety; however, all species and varieties have not been tested. When treating large numbers of plants of a single variety, treat a few plants and observe prior to full scale application.

**APPLICATION EQUIPMENT:** TURCAM 2½G is a granular formulation. Application using subsurface placement equipment is recommended for insects below the soil surface. Where this is not practical, apply with a fertilizer spreader or equivalent equipment as uniformly as possible.

For white grubs of Japanese beetle and Southern masked chafar, apply TURCAM 2½G 0.25–0.75 deep in 2-inch bands.

For mole crickets, apply TURCAM 2½G 0.75–1.00 inch deep in 3-inch bands or less.

**BEST AVAILABLE COPY**

The following table lists application equipment and recommended settings for that equipment for the surface application of TURCAM 2½G G:

### RECOMMENDED SETTINGS

Spreader Model	Pounds of Product per Acre	Once Over	Twice Over	Swath Width
SPYKER (Rotary)	80	3.9	3.4	6 ft.
LESCO (Rotary)	80	0½	—	8 ft.
CYCLONE (B-1, 30, 96)	80	4.0	—	—
PRIZELAWN-CBR	80 120	4.5 5.0	— —	Same as spreader width
GANDY DROP	80 120	30 34	— —	30 inches 30 inches
SCOTT DROP	80 120	6½ 8	— —	21 inches 21 inches
SCOTT R-7x	80 120	F-½ H-½	— —	9 ft. 9 ft.
SCOTT R-8A	80 120	L M-½	— —	10 ft. 10 ft.
VICON or LESCO Pendulum	80	18	—	15 ft. at 5 mph
LELY HR spreader assembly setting #3	120	4 (right discharge gate opening ¾")	—	23 ft. with a PTO speed of 510 and RPM 1700 at 5 mph

**IMPORTANT:** Please note that these settings are approximate as the condition of each piece of equipment can affect actual rates of application. Settings should be made after a calibration check is completed.

#### IMPORTANT: READ BEFORE USE

By using this product, user or buyer accepts the following conditions, warranty, 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 extreme weather and soil conditions, manner of use and other factors beyond NOR-AM Chemical Company's control, it is impossible for NOR-AM 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.

**DISCLAIMER OF WARRANTIES:** THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OR MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, WHICH EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of NOR-AM Chemical Company is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. UNDER NO CIRCUMSTANCES SHALL NOR-AM CHEMICAL COMPANY BE LIABLE FOR ANY SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES RESULTING FROM USE OR HANDLING OF THIS PRODUCT.

**LIMITATIONS OF LIABILITY:** THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES, OR DAMAGE RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT NOR-AM'S ELECTION, THE REPLACEMENT OF PRODUCT.

© NOR-AM Chemical Company, 1991

**BEST AVAILABLE COPY**