

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

OCT 1 1993

Office of  
Prevention, Pesticides and  
Toxic Substances

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3509 SILVERSIDE ROAD  
WILMINGTON DE 19803

Subject: Label Amendment Submission of 06/03/93  
in Compliance with WPS Labeling Requirements  
EPA Reg No. 45639-59  
TURCAM

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)

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

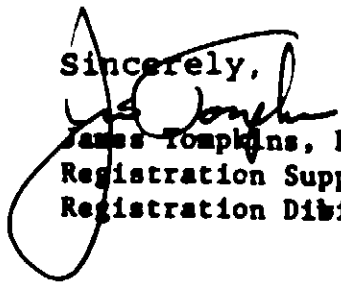
Hand or courier deliveries of final labels may be made to:

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)

# SPECIMEN LABEL

FEATURED LABEL

## 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.

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# Turcam

## INSECTICIDE

For Use On Ornamental Trees, Shrubs, And Turf • DO NOT USE ON FOOD CROPS

ACTIVE INGREDIENT

Percent by Weight

INERT INGREDIENTS

TOTAL

EPA Reg. No. 155-055

KEEP OUT OF REACH OF CHILDREN

### WARNING — AVISO

HARMFUL OR FATAL IF SWALLOWED

Swallowing this product may be harmful. If swallowed, do not induce vomiting. If you feel ill, call a doctor. If you are pregnant, avoid use of this product.

### STATEMENT OF PRACTICAL TREATMENT

THIS PRODUCT IS AN N-METHYL CARBAMATE

INSECTICIDE

It is used to

control

the following

pests on ornamental

plants:

1. Aphids

W-NOR-AM

1.5% Carbamate

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

**GENERAL INFORMATION:** TURCAM® is a wettable powder containing 76% by weight active ingredient which has given effective knockdown and residual control of those insects listed.

TURCAM does not damage paints, plastics, fabrics or other surfaces where water alone causes no damage.

### PRECAUTIONARY STATEMENTS

#### Hazards to Humans & Domestic Animals

### WARNING

Harmful or fatal if swallowed. May be absorbed through the skin. Avoid contact with eyes, skin and clothing.

Do not rub eyes or mouth with hands. If you feel sick in any way, STOP WORK and get help right away. See First Aid (Practical Treatment) section.

Avoid breathing and working in spray mist or dust.

Do not use on or contaminate fruit, vegetables, or other feed or food crops.

Do not store near feed or food products.

#### PERSONAL PROTECTIVE EQUIPMENT

Applicators and Other handlers must wear:

- Coveralls over short-sleeved and short pants
- Waterproof gloves SHIRT
- Chemical-resistant footwear plus socks
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when cleaning equipment, mixing, or loading

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. 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 STATEMENT

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 (6) (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.

Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and wildlife. 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 when disposing of equipment washwaters.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

**IN CASE OF FIRE, LEAKY, OR DAMAGED CONTAINERS, OR OTHER EMERGENCY, REPORT AT ONCE BY TOLL-FREE TELEPHONE TO: 800-424-9300.**

### STORAGE AND DISPOSAL

**STORAGE:** Stable at normal temperatures. Store in a dry place.

**PESTICIDE DISPOSAL:** Do not contaminate water, food, or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Poly Jar—Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities by burning. If burned, stay out of smoke.

### 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.

TURCAM is intended for dilution with water for application with hand or power-operated sprayers. Do not use strainers finer than 50 mesh size. Fill spray tank with ¾ of desired volume of water, add appropriate amount of product and then add the remaining quantity of water. Close and agitate before use to insure proper suspension. Reagitate sprayer before use if spraying is interrupted. Do not allow to stand overnight. If water pH is greater than 8 add a commercial buffering agent to adjust water pH to 7 or less. The activity of TURCAM at pH 8 or greater may be reduced.

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### **AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard 40 CFR 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 over short-sleeved shirt & short pants
- > Waterproof gloves
- > Chemical-resistant footwear plus socks
- > Chemical-resistant headgear for overhead exposure

### **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.

When applying in outdoor sites keep all unprotected persons, children, and animals away from treated area or where there is danger of drift.

Do not permit children or pets to contact treated surfaces until spray has dried completely.

**DO NOT APPLY THIS PRODUCT THROUGH ANY TYPE OF IRRIGATION SYSTEM.**

### **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.

### **LANDSCAPE TREES (Non fruit bearing) RECOMMENDATIONS**

Spray TURCAM to the point of runoff for the insects listed below.

#### **GYPSY MOTH**

**Egg Mass Treatment**—Mix 4 ounces of TURCAM per 100 gallons of water and apply to egg masses until saturation. Application can be made up to 3 weeks before gypsy moth hatch.

#### **Larval Treatment:**

**Residual Foliar and Contact Spray:** Mix 3 ounces TURCAM per 100 gallons of water and apply to the whole tree (wood and leaves). This will control all larval stages. If required for optimal control in heavily infested areas, applications can be made every two weeks.

**Supplementary Residual Trunk Spray:** When large larvae (1-2½", 4th-6th instars) are mobile and seeking resting places and a foliage spray is impractical, mix 2.5 pounds of TURCAM per 100 gallons of water and apply to tree trunks until fully saturated, making sure to treat cracks and crevices. A harborage (burlap or tape band) is required to keep the larvae on the treated surface. Applications can be made every two weeks if required for optimal control in heavily infested areas.

#### **EASTERN TENT CATERPILLARS**

Use 3 ounces of TURCAM per 100 gallons of water.

#### **FALL WEBWORM**

Use 6 ounces of TURCAM per 100 gallons of water.

**JAPANESE BEETLE, ELM LEAF BEETLE, WILLOW LEAF BEETLE (LARVAE), POPLAR TENT-MAKER, YELLOWNECK CATERPILLAR, SPRING CANKERWORM, BAGWORM**

Use 11 ounces of TURCAM per 100 gallons of water.

#### **MIMOSA WEBWORM**

Use 1 pound of TURCAM per 100 gallons of water.

#### **PINE SPITTLEBUG, BRONZE BIRCH BORER**

Use 1 lb. 5 ounces of TURCAM per 100 gallons of water. For Bronze Birch Borer, use three sprays spaced two weeks apart.

#### **NANTUCKET PINE TIP MOTH**

Use 2 pounds of TURCAM per 100 gallons of water. Spray at the time of moth flight for each generation. Consult local Cooperative Extension authorities regarding time of moth flights in your area.

#### **PALES PINE WEEVIL, NORTHERN PINE WEEVIL**

Use 2 lbs. 10 ounces of TURCAM per 100 gallons of water.

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## TURF RECOMMENDATIONS

Apply TURCAM as a coarse, low-pressure spray in sufficient water to obtain complete and uniform coverage of pest-infested areas.

SUBSURFACE PESTS	DOSEAGE	APPLICATION PROCEDURE
White grubs of: Japanese beetle, Black turf grass Athaliae, European chafar, Northern masked chafar, Green June beetle, Annual white grub, Mole crickets, Billbugs (larvae)	1 to 1.5 ounces per 1000 sq. ft.	Apply when pests become evident. Control of grubs is best when they are still small; therefore, late summer treatments are preferable in spring. Apply in adequate water to assure coverage. In order to improve efficacy, irrigate as soon as possible with 1/4-1/2 inches of water.
European Crane fly Larvae (Except California)	1.5 oz. per 1000 sq. ft.	Apply when pests become evident.

SURFACE PESTS	DOSEAGE	APPLICATION PROCEDURE
Chinch bugs, leafhoppers, Sod webworms	.5 to 1 ounce per 1000 sq. ft.	Apply when pests are evident. Use adequate quantity of water to thoroughly moisten grass and thatch.
Ants, Bees, Brown dog ticks, Centipedes, Cockroaches, Crickets, Earwigs, Firebrats, Fleas, Ground beetles, Millipedes, Pillbugs, Scorpions, Silverfish, Sowbugs, Spiders (including Black Widow Spiders), Wasps		

Do not apply more than 8 lbs. of TURCAM per acre per year. Spring applications must not exceed 4 lbs. of TURCAM per acre.

Allow 14 days between applications of TURCAM.

## FIRE ANTS

Mix TURCAM as recommended in the table below. Two gallons of mixture are recommended for mounds 8 inches or larger in diameter. Less mixture can be used on smaller mounds, however, thorough penetration of insect galleries must be achieved. Apply a small amount of material around the perimeter of the mound. Apply the remaining volume directly on the mound so as to penetrate insect galleries. A second treatment may be necessary to obtain complete control.

Do not disturb the mound prior to application. If possible, make applications after recent rainfall. Applications may not be as effective during hot, dry periods. If possible, treat all colonies in the vicinity. Also, treat colonies which have not yet constructed a mound.

AMOUNT OF TURCAM	AMOUNT OF WATER
2 to 3 teaspoons 1 ounce	2 gallons 20 gallons

## GREENHOUSE, INTERIOR PLANTSCAPE AND OUTDOOR ORNAMENTALS

Use TURCAM in greenhouse, interiorscape and outdoor situations where ornamental pests are a problem. TURCAM can be used to control specified pests on non-edible ornamental plants including, but not limited to: African Violet, Ageratum, Aglaonema, Arafia, Arborvitae, Asarum, Asparagus sprengeri, Azalea, Beech, Begonia, Boxwood, Calathea, Calendula, Camellia, Carnation, Cedar, Celosia, Chrysanthemum, Coleus, Cottoncuster, Crepe Myrtle, Croton, Daffodil, Dahlia, Dianthus, Dieffenbachia, Dracaena, Epipremnum, Episcia, Euonymus, Fatsia, Ferns, Ficus, Flowering almonds, Flowering crab apples, Fountaingrass, Fuchsia, Gazania, Geranium, Gladiolus, Gloxinia, Holly, Hydrangea, Hypoestes, Impatiens, Iris, Ivy, Ixora, Japanese yew, Juniper, Leucothoe, Lilac, Lily of the Valley, Maranta, Marigold, Mimosa, Mock Orange, Mondo Grass, Nandina, Nasturtium, Nicotiana, Norfolk Island Pine, Oleander, Pachysandra, Pansy, Peperomia, Petunia, Philodendron, Photinia, Pieris, Pine, Poinsettia, Portulaca, Pothos, Primrose, Privet, Prunus, Pyracantha, Rhododendron, Rose, Sago Palm, Salvia, Sansevieria, Schefflera, Shasta Daisy, Sinningia, Snapdragon, Spathiphyllum, Spirea, Spruce, Sycamore, Taxus, Verbena, Viburnum, Vinca, Wandering Jew, and Zinnia.

Spray TURCAM to runoff at the recommended rates in the table:

PEST	AMOUNT OF TURCAM PER 100 GALLONS OF WATER
Chrysanthemum aphid, Green apple aphid, Hemispherical scale, Florida wax scale	3 ozs.
Brown soft scale, Spirea aphid, Tea scale, Citrus mealybug, Hawthorn lacebug, Euonymus scale	6 ozs.
Thrips, Azalea caterpillar, Taxus mealybug (adults), Sycamore lacebug, Oleander Aphid, Oleander Caterpillar	11 ozs.
Obscure root weevil (adults)	1 lb.
Whitefly, Citrus blackfly (larvae), Black vine weevil	1 lb. 5 ozs.
Azalea leafminer	2 lbs. 10 ozs.
Black vine weevil (adult and larvae)	1 lb. 5 ozs.

TURCAM provides best control when applied to the adult stage soon after emergence. Apply 2-3 weeks after adults emerge. Thoroughly spray foliage to runoff (ground surface should be wet). Repeat application 3 weeks later.

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For control of Black Vine Weevil larvae in container production:

Mix 2 to 4 oz. of TURCAM per 100 gallons of water. Apply as a soil drench at the following rates:

VOLUME	CONTAINER SIZE
8 fl. oz.	6-inch
1 pint	1 gal.
3 pints	3 gal.
5 pints	5 gal.

Best results are obtained against young larvae. Apply TURCAM at first sign of hatching.

**INTERIOR PLANTSCAPING:** Spray TURCAM to the point of runoff according to the rates recommended under Landscape Flowers and Shrubs above.

When used in public areas, use a coarse, low pressure spray. Apply during non-business hours or cordon off area during spraying and until spray has dried.

**CAUTION:** Marginal tip burn may occur on Cardoon and Coleus at rates of 2½ pounds of TURCAM/100 gallons of water and above. TURCAM 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.

## 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.

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