

SEMI-ANNUAL USE PESTICIDE

# Trifluralin

**INSECTICIDE**

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

where there is danger of drift.

Wash hands and exposed skin before eating, drinking, or smoking and after spraying or handling.

Wash all contaminated clothing thoroughly before re-

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

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

Do not store near food or food products.

#### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and wildlife. Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes). 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.

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 Follar 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 TENTMAKER, 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.

## 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	DOSAGE	APPLICATION PROCEDURE
White grubs of: Japanese beetle, Black turf grass Attenius, European chafer, Northern masked chafer, Green June beetle, Annual white grub, Mole crickets, Billbugs (larvae)	1 to 2 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 to spring. Apply in adequate water to assure coverage, then irrigate thoroughly with ½-¾ inch of water

SURFACE PESTS	DOSAGE	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		

## 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	2 gallons
1 ounce	20 gallons

## LANDSCAPE FLOWERS AND SHRUBS RECOMMENDATIONS

Use Turcam to control pests on ornamental plants in 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: Ageratum, Asarina, Azalea, Begonia, Boxwood, Calendula, Cedar, Celosia, Chrysanthemum, Coleus, Daffodil, Dahlia, Dianthus, Euonymus, Ferns, Ficus, Flowering almonds, Flowering crab apples, Fuchsia, Gazania, Geranium, Holly,

Hydrangea, Hypochoeris, Impatiens, Iris, Ivy, Japanese yew, Juniper, Kalendra, Lilac, Lily of the Valley, Marigold, Mimosa, Nasturtium, Nicotiana, Oleander, Pachysandra, Pansy, Petunia, Pine, Portulaca, Pyracantha, Rhododendron, Rose, Salvia, Schefflera, Shasta daisy, Snapdragon, Spirea, Taxus, Verbena, Vinca and Zinnia.

**CAUTION:** Marginal tip burn may occur on Cardoon and Coleus at rates of 2¾ 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. 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 lace- bug, 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.

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.

**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 pres-  
sure spray. Apply during non-business hours or  
cordon off area during spraying and until spray has  
dried.

#### IMPORTANT: READ BEFORE USE

By using this product, user 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 condi-  
tions, 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.

**DISCLAIMER OF WARRANTIES:** THERE ARE NO WARRANTIES, EXPRESS OR  
IMPLIED, OF 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 CIR-  
CUMSTANCES SHALL NOR-AM CHEMICAL COMPANY BE LIABLE FOR ANY INCI-

DENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM FAILURE TO USE THIS  
PRODUCT IN ACCORDANCE WITH LABEL DIRECTIONS

**LIMITATIONS OF LIABILITY:** In no event shall NOR-AM Chemical Company's liability  
for damages arising out of the use of this product exceed the purchase price of the  
product used

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