

228-440

5-24-2005

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs (7504C)
Ariel Rios Building
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:
228-440

Date of Issuance:
MAY 24 2005

NOTICE OF PESTICIDE:
 x Registration
 Reregistration

(under FIFRA, as amended)

Term of Issuance:
Conditional

Name of Pesticide Product:
Acephate Tree, Turf & Ornamental Spray 97

Name and Address of Registrant (include ZIP Code):
Nufarm Americas Inc.
1333 Burr Ridge Parkway, Suite 125A
Burr Ridge, IL 60527

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) (A) provided that you:

1. Submit and/or cite all data required for registration of your product when the Agency requires all registrants of similar products to submit such data.

Since the Interim Reregistration Eligibility Decision (IRED) and the accompanying Data Call-In(DCI) have been issued for acephate and you have referenced a registered acephate product in support of your product, the registration issued for your product is conditioned on acceptable data being submitted for the supporting product in response to the DCI or new data being submitted to replace any unacceptable data. If the data are unacceptable and will not be replaced, the supporting product registration will be subject to being suspended. In that event, you will lose your formulator's exemption and become subject to providing these data or being suspended.

2. Make the following label changes before you release the product for shipment:

- a. Add the designation, "EPA Reg. No. 228-440".
- b. Correct the net contents; from gallons to pounds.

Signature of Approving Official:
Monica A. Mandy

Date:
MAY 24 2005

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3. Submit two copies of the revised final printed label before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

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



Marilyn A. Mautz
Biologist
Insecticide-Rodenticide Branch
Registration Division (7504C)

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ACEPHATE

TREE, TURF & ORNAMENTAL SPRAY 97

**SOLUBLE INSECTICIDE
KILLS FIRE ANTS**

ACTIVE INGREDIENT:

Acephate (O,S-Dimethyl acetylphosphoramidothioate) 97.4%

OTHER INGREDIENTS: 2.6%

TOTAL: 100.0%

U.S. Pat. No. 6,013,272

**KEEP OUT OF REACH OF CHILDREN
CAUTION - CAUCION**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail.)

SEE INSIDE BOOKLET FOR FIRST AID AND ADDITIONAL PRECAUTIONARY STATEMENTS

For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300
For Medical Emergencies Only, Call (877) 325-1840

NOTE: Spanish language is optional

EPA REG. NO. 228-UUN
EPA EST. NO. 228-

MANUFACTURED BY
NUFARM AMERICAS INC.
BURR RIDGE, IL 60527-0866



NET CONTENTS GALS.

000228-00UUN.20050513.

**ACCEPTED
with COMMENTS
in EPA Letter Dated:**

MAY 24 2005
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
228-440

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**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION - CAUCION**

Harmful if swallowed. Causes eye irritation. Avoid contact with eyes, skin and clothing. Avoid breathing dust or spray mist. Wash hands thoroughly after handling. Do not allow children or pets to come into contact with treated areas until sprays have dried.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Some materials that are chemical-resistant to this product are those made of any waterproof material. If you want more options, follow the instructions for category A on an EPA chemical-resistant category selection sheet.

Mixers, loaders, applicators and other handlers must wear:

- long-sleeved shirt and long pants
- socks and shoes
- chemical-resistant gloves for all mixers and loaders and for applicators using hand-held application equipment.

In addition, all mixers and loaders and all applicators using low pressure hand wand application equipment must wear:

- A NIOSH-approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator with any N, R, P, or HE filter.

Pilots must use enclosed cockpit in a manner that meets the requirements listed in Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.24(d)(6)]. The use of human flaggers is prohibited.

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.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

FIRST AID

Acephate is an organophosphate, cholinesterase inhibitor.

IF SWALLOWED	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
IF IN EYES	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
IF INHALED	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-325-1840 for emergency medical treatment information.

NOTE TO PHYSICIAN

This material contains a cholinesterase inhibitor. Measurement of blood cholinesterase activity may be useful in monitoring exposure but decisions regarding treatment will usually need to be made before test results are available. If signs of cholinesterase inhibition appear, atropine sulfate is antidotal, 2-PAM (PROTOPAM) is also antidotal and may be used in conjunction with atropine but should not be used alone.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to birds. 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 wastes. Cover or soil-incorporate spills.

This product is highly toxic to bees exposed to direct treatment or residues 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.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

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. Do not apply this product through any type of irrigation system.

Do not apply using low pressure hand wand equipment except for use as a mound treatment for control of fire ants and when used as a non-agricultural use on ornamental trees, shrubs, and floral plants.

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 24 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 and 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.

Do not enter or allow others to enter until sprays have dried.

TANK MIXES

NOTICE: Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator and/or application advisor.

Read and follow the entire label of each product to be used in the tank mix with this product.

GENERAL INFORMATION

TABLE OF CONTENTS

- Non-bearing Citrus
- Nursery Stock - Non-bearing Deciduous Fruit Trees, Nut Trees and Vines
- Specialty Uses - Non-Crop Areas
- Specialty uses - Container Grown Nursery Stock
- Trees and Shrubs
- Golf Course and Sod Farm Turfgrass
- Mound Treatment of Fire Ants and Harvester Ants in Turfgrass
- Outdoor and Perimeter Spray
- Outdoor Floral Crops and Ground Covers
- Greenhouse Floral and Foliage Plant Crops

GENERAL MIXING INSTRUCTIONS

Thoroughly clean all sprayer components prior to mixing. Add approximately 1/2 of the required amount of water to the spray tank and begin agitation. Add the required amount of this product and mix thoroughly. Then add other tank mix partners or foliar feed additives and the remaining water. Maintain agitation during filling and spraying to ensure a uniform spray mixture.

For application equipment, which has minimal agitation, proper attention to mixing this product should be given. With water applications this product should be premixed in water to form a slurry prior to putting the product into the water applicator. If premixing is not done, then adequate time should be allowed for the product to dissolve in the water prior to beginning application.

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SMALL VOLUME SPRAY EQUIPMENT

PREPARATION OF THIS PRODUCT USING A SMALL FLUID OUNCE MEASURING CUP		
Label Recommendation of this product in 100 Gallons of Water	Equivalent of this product in 25 Gallons of Water	Equivalent of this product in 1 Gallon of Water (teaspoons/gallon)
1/4 pound	1 ounce	1/3 teaspoon
1/2 pound	2 ounces	2/3 teaspoon
3/4 pound	3 ounces	1 teaspoon
1 pound	4 ounces	1-1/3 teaspoons

SPRAY DRIFT REDUCTION

All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers.

Do not make aerial or ground applications into areas of temperature inversion. Inversions are characterized by stable air and increasing temperatures with increasing distance above the ground. Mist or fog may indicate the presence of an inversion in humid areas. Where permission by local regulations, the applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

Use the largest droplet size consistent with acceptable efficacy. Formation of very small droplets may be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible and by avoiding excessive spray boom pressure.

Do not allow spray to drift from the application site and contact people, structures people occupy at any time and the associated property, parks and recreation areas, nontarget crops, aquatic and wetland areas, woodlands, pastures, rangelands, or animals.

For ground boom applications, apply with nozzle height no more than 4 feet above ground or crop canopy and when wind speed is 10 mph or less at the application site as measured by an anemometer. For ground boom applications use medium or coarser spray nozzles according to ASAE 572 definition for standard nozzles or a volume mean diameter (VMD) of 300 microns or greater for spinning atomizer nozzles.

For airblast applications, direct spray above foliage and turn off outward pointing nozzles at row ends and outer rows. Apply only when wind speed is 3 to 10 mph at the application site as measured by an anemometer outside of the treated area on the upwind side.

For aerial applications, the boom width must not exceed 75% of the wingspan or 90% of the rotary blade. Use upwind swath displacement and apply only when wind speed is 3 to 10 mph as measured by an anemometer. For aerial applications use medium or coarser spray nozzles according to ASAE 572 definition for standard nozzles or a volume mean diameter (VMD) of 300 microns or greater for spinning atomizer nozzles. If application includes a no-spray zone, do not release spray at a height greater than 10 feet above the ground or the crop canopy.

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NON-BEARING CITRUS
DO NOT ALLOW LIVESTOCK TO GRAZE TREATED AREAS.

PLANTS	INSECTS	AMOUNT OF THIS PRODUCT PER ACRE	TIME OF APPLICATION	RECOMMENDED APPLICATION
Non-Bearing Citrus (including citrus nursery seedlings)	Aphids Grasshoppers Katydid Mealybugs Orangedogs Plant Bugs (Lygus) Thrips Whiteflies	1/2 pound (8 ounces)	Apply for control of existing populations.	Apply this product in 100 to 200 gallons of water per acre. Spray individual juvenile or non-bearing trees for coverage with total application not to exceed specified rate in pounds per acre. Length of residual activity will depend upon spray coverage and the amount of moisture following application. Do not allow livestock to graze treated areas. DO NOT HARVEST citrus for one year after treatment.
	Citrus Blackfly*	1/2 to 3/4 pound (8 to 12 ounces)	The high rate should be used when a heavy infestation of Citrus Blackfly is present. Begin applications when eggs or adults first appear	
	Ants, including Imported Fire Ants and Harvester Ants*	Foliar Spray 3/4 pound (12 ounces)	Apply for control of existing populations.	
Mound Treatment - Drench Method: Mix 3/4 ounce in 5 gallons of water. Apply 1 gallon of mix to each mound area by sprinkling mound until it is wet and treat a four (4) foot diameter circle around the mound.				

*Not registered in CA for control of Citrus Blackfly and Harvester Ants.

The minimum reapplication intervals are 3 days if applying 0.5 lb. a.i./acre or less and 7 days if applying greater than 0.5 lb. a.i./acre.

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NURSERY STOCK

**NON-BEARING DECIDUOUS FRUIT TREES, NUT TREES AND VINES IN NURSERY FIELDS OR NON-BEARING ORCHARDS
DO NOT ALLOW LIVESTOCK TO GRAZE TREATED AREAS.**

PLANTS	INSECTS	AMOUNT OF THIS PRODUCT PER ACRE	TIME OF APPLICATION	RECOMMENDED APPLICATION
Nursery Stock (Non-bearing Deciduous Fruit Trees, Nut Trees, Vines) Almond Apricot Apple Cherry Grape Kiwi Pear Pistachio Plum Prune Walnut	Aphids Plant Bugs (Lygus) Thrips	1/2 to 1 pound (8 to 16 ounces)	Apply for control of existing populations.	Apply this product in 50 to 200 gallons of water per acre by ground and not less than 5 gallons of water per acre by air.
<p>USE PRECAUTIONS: For application only to non-bearing trees and vines in nursery fields or in non-bearing orchards. Do not apply to interplants or single trees in a bearing orchard.</p> <p>Do not harvest any fruit from sprayed trees for one-year after application.</p>				

The minimum reapplication intervals are 3 days if applying 0.5 lb. a.i./acre or less and 7 days if applying greater than 0.5 lb. a.i./acre.

SPECIALTY USES - NON CROP AREAS

CROP	INSECTS	AMOUNT OF THIS PRODUCT PER ACRE	FURTHER USE INSTRUCTIONS
Non-Crop Areas (Field borders, fencerows, roadsides, ditchbanks and borrow pits)	Grasshoppers	1/4 pound (4 ounces)	For early to mid-season application to Grasshoppers in field borders, fencerows, roadsides, ditchbanks and borrow pits. Apply in 1 to 5 gallons of water by air, or in 10 to 20 gallons of water with ground equipment. Use the higher volumes when spraying heavier foliage. Do not graze or feed vegetation cut from treated areas.
Non-Crop Areas	Ants, including Imported Fire Ants and Harvester Ants*	Mound Treatment - Drench Method: Mix 3/4 ounce in 5 gallons of water. Apply 1 gallon of mix to each mound area by sprinkling the mound until it is wet and treat a four (4) foot diameter circle around the mound.	For best results apply the material in the early morning or late afternoon when the ants are most active. Applications made under prolonged hot and dry conditions may be ineffective due to the location of the ants deep within the nest. Grass in treated area may be injured. Do not treat mound more than once per season.

*Not registered in CA for control of Harvester Ants.

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SPECIALTY USES - CONTAINER GROWN NURSERY STOCK

PLANTS	INSECTS	AMOUNT OF THIS PRODUCT PER 100 GALLONS	TIME OF APPLICATION	RECOMMENDED APPLICATION
Container Grown Nursery Stock (Arborvitae, Azalea, Camellia, Rhododendron, Roses, Viburnum, Yew)	Black Vine Weevil Strawberry Root Weevil	3/4 pound (12 ounces)	Application should be made by mid-September for greenhouse stock and by mid-October for outdoor stock. Consult your local county extension agent for information on the identification and control of root weevils on ornamentals.	Apply the specified amount of this product per 100 gallons of solution so as to thoroughly drench the root system.
	Ants, including Imported Fire Ants and Harvester Ants*	3/4 pound (12 ounces)	Apply as needed to control the pest.	

*Not registered in CA for control of Harvester Ants.

ORNAMENTAL TREES AND SHRUBS

PLANTS	INSECTS	AMOUNT OF THIS PRODUCT PER 100 GALLONS	TIME OF APPLICATION	RECOMMENDED APPLICATION
Trees and Shrubs (Except Flowering Crabapple, see next page)	Aphids Bagworms Birch Leafminer Lace Bugs Leafrollers Tent Caterpillars*	1/4 pound (4 ounces)	As the insects begin to appear.	Apply the specified amount of this product in 100 gallons of water with a hydraulic sprayer. The addition of a suitable sticker improves control of Gypsy Moth larvae.
	Douglas Fir Tussock Moth Larvae Gypsy Moth Larvae* Webworms	1/2 pound (8 ounces)	As the insects begin to appear.	*Mist blower application: Adjust rates to 1 pound per 100 gallons water for Gypsy Moth control and 3/4 pound per 100 gallons water for Tent Caterpillar control.
	Scale (Crawlers)	1/2 pound (8 ounces)	As crawlers begin to appear. Repeat applications, at a 2 week or more interval, may be necessary where there is continuous crawler production.	Do not apply to Huckleberry, Balm of Gilead, Cottonwood, Lombardy Poplar and Viburnum suspensum. Nursery crops: Before treating large plantings, spray only a few plants and observe two weeks for phytotoxicity.
	Ponderosa Pine Needle Miner	1/2 pound (8 ounces)	Time of application is important. Consult your Farm Advisor or County Extension Agent.	Apply the specified amount of this product in 100 gallons of water with a hydraulic sprayer as a full coverage spray.
	Grasshoppers	1/2 pound (8 ounces)	As the grasshoppers begin to appear.	(Continued)

ORNAMENTAL TREES AND SHRUBS (continued)

PLANTS	INSECTS	AMOUNT OF THIS PRODUCT PER 100 GALLONS	TIME OF APPLICATION	RECOMMENDED APPLICATION
Trees and Shrubs (Except Flowering Crabapple) (continued)	California Oakworm Cankerworms (Spring and Fall)	1/4 to 1/2 pound (4 to 8 ounces)	As the insects begin to appear. Use the higher amount when the larger larvae are present.	Apply the specified amount of this product in 100 gallons of water with a hydraulic sprayer.
	Nantucket Pine Tip Moth Larvae	3/4 pound (12 ounces)	Time of application is important. Consult your Farm Advisor or County Extension Agent. Repeat applications will be required for subsequent generations.	
	Root Weevil Adults	3/4 pound (12 ounces)	Apply when first feeding damage occurs. Repeat applications, at four week intervals until the first heavy frost, may be necessary for complete foliage protection.	Apply the specified amount of product in 100 gallons of water with a hydraulic sprayer as a full coverage spray.
	Box Elder Bugs Budworms Leafhoppers Sawflies	3/4 pound (12 ounces)	As the insects begin to appear.	
	Japanese Beetle	1 pound (16 ounces)	As the Japanese Beetles begin to appear. Repeat applications, at 2 week intervals, may be necessary.	
	Elm Leaf Beetle (larvae)	1 pound (16 ounces)	As the larvae begin to appear. This product will not prevent Elm Leaf Beetle eggs from hatching.	
Douglas Fir (Christmas Trees)	Douglas Fir Needle Midge	1/2 pound (8 ounces) (1/2 pound per acre)	Application should be made no more than 2 weeks prior to bud burst. For additional pest management information, consult your County Extension Service.	Apply the specified amount of this product in not less than 2 gallons of spray per acre by air or in 100 gallons of spray per acre by ground.
Flowering Crabapples	Aphids Leafrollers Tent Caterpillars	1/4 pound (4 ounces)	As the insects begin to appear.	Apply the specified amount of this product in 100 gallons of water with a hydraulic sprayer. Do not apply more often than 3 times in a growing season at a 4 week interval. Caution: Phytotoxicity has occurred on the following Crabapple varieties: Hopa, Ichonoski, Malusfloribunda, Pink Perfection, Red Wine and Snow Cloud. (Continued)

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ORNAMENTAL TREES AND SHRUBS (continued)

PLANTS	INSECTS	AMOUNT OF THIS PRODUCT PER 100 GALLONS	TIME OF APPLICATION	RECOMMENDED APPLICATION
Crape Myrtle	Aphids	2 to 3 Level Tablespoons (0.6 to 0.9 ounce) per 1 Tablespoon of water	As aphids begin to appear.	Make a paint-on slurry by mixing the specified amount of this product with 1 tablespoon of water. Remove the loose bark from the trunk areas to be treated. Completely paint a band around each trunk to a width twice its diameter. Application should be made to trunks within a zone 6 to 12 inches above the ground and below the point where branching begins. For multi-trunk plants be certain to treat all trunks. For either single or multi-trunk plants, application should be made as low as possible within the recommended treatment zone.

The minimum reapplication intervals are 3 days if applying 0.5 lb. a.i./acre or less and 7 days if applying greater than 0.5 lb. a.i./acre.

GOLF COURSES AND SOD FARM TURFGRASS

DO NOT ALLOW LIVESTOCK TO GRAZE TREATED AREAS. DO NOT FEED TREATED GRASS TO LIVESTOCK.

Aerial application to turf is prohibited. Do not exceed a single application rate of 3 lbs a.i./acre for sod farms and 4 lbs a.i./acre for golf courses. If harvesting sod, a 3 day preharvest interval applies.

PLANTS	INSECTS	AMOUNT OF THIS PRODUCT PER 1,000 SQUARE FEET	TIME OF APPLICATION	RECOMMENDED APPLICATION
Turf (Golf Course and Sod Farm Turfgrass only)	Fall Armyworm Yellow Striped Armyworm Southern Armyworm	0.4 to 0.9 ounce	As the insects appear. A repeat application at 2 week intervals may be necessary.	Apply the specified amount of this product per 1,000 square feet. Use a minimum of 5 gallons of water per 1,000 square feet to obtain good coverage. Apply the specified amount of this product per 1,000 square feet. Use 1 to 15 gallons of water per 1,000 square feet to obtain good coverage.
	Cutworm	0.9 to 1.1 ounces (on sod farm turfgrass) 0.9 to 1.5 ounces (on golf courses)		
	Chinch Bugs	0.9 to 1.1 ounces (on sod farm turfgrass) 0.9 to 1.5 ounces (on golf courses)	Apply as needed for adult population knockdown (10 to 14 days).	
	Fleas	0.9 to 1.1 ounces (on sod farm turfgrass) 0.9 to 1.5 ounces (on golf courses)	Apply as needed for knockdown (7 to 10 days) only of existing adult populations.	
	Sod Webworm (Crambus spp.)	0.4 to 0.8 ounce	As sod webworms begin to appear. Use the higher amount when quick knockdown is needed or with heavy infestations. Repeat application may be necessary. Do not repeat at more than 1 week intervals.	

(Continued)

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GOLF COURSES AND SOD FARM TURFGRASS (continued)
DO NOT ALLOW LIVESTOCK TO GRAZE TREATED AREAS. DO NOT FEED TREATED GRASS TO LIVESTOCK.

PLANTS	INSECTS	AMOUNT OF THIS PRODUCT PER 1,000 SQUARE FEET	TIME OF APPLICATION	RECOMMENDED APPLICATION
Turf (Golf Course and Sod Farm Turfgrass only) (continued)	Leafhopper	0.75 ounce	As the leafhoppers begin to appear. A repeat application at 1 week intervals may be necessary.	Apply the specified amount of this product per 1,000 square feet. Use 1 to 15 gallons of water per 1,000 square feet to obtain good coverage.
	Mole Crickets (Except CA) Spittlebug (Except CA)	0.8 to 1.1 ounces (on sod farm turfgrass) 0.8 to 1.5 ounces (on golf courses)	As mole crickets begin to appear. For knockdown of existing populations, more than one application may be required throughout the growing season. For heavy infestations, use the higher dosage rate.	Apply the specified amount of this product per 1,000 square feet. Use 1 to 15 gallons of water per 1,000 square feet to obtain good coverage. Apply during late afternoon or early evening hours and after an irrigation. Do not irrigate after application. The use of lemon fragrance substance in the spray mix may enhance control by acting as a flushing agent and thus provide increased mole cricket contact with the product. The following lemon-scented products have been shown to be effective flushing agents: Lemon Joy, Lemon Palmolive, and Mighty Mryt Products Manufacture-Base Pure Lemon Fragrance. The use rate for these lemon-scented products is 2 teaspoons per gallon of water for small total mix volumes or 6 fluid ounces per 50 gallons of water for large total mix volumes.
	Greenbug (<i>Schizaphis graminum</i>) Grasshoppers	0.4 ounce	Apply when insects or their damage first appear. Repeat as necessary. Application is not to be repeated at more than 1 week intervals.	Apply the specified amount of this product. Use 4 gallons of water per 1,000 square feet to obtain good coverage. Do not mow turfgrass for at least 24 hours after application.
	Black Turfgrass Ataenius (Except CA)	0.9 to 1.1 ounces (on sod farm turfgrass) 0.9 to 1.5 ounces (on golf courses)	Apply when insects or their damage first appear.	Apply the specified amount of this product per 1,000 square feet. Use a minimum of 5 gallons water per 1,000 square feet. Irrigate lightly after application (not more than 1/2 inch). Use the higher rate for severe infestations.
Dichondra (Plant site for Golf Course and Sod Farm Turfgrass)	Cutworm Flea Beetle Southern Armyworm Yellow Striped Armyworm	0.8 to 1.1 ounces (on sod farm turfgrass) 0.8 to 1.5 ounces (on golf courses)	As the insects appear. Repeat at 2 week intervals as necessary.	Apply the specified amount of this product per 1,000 square feet. Use a minimum of 15 gallons of water per 1,000 square feet to obtain good coverage.

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MOUND TREATMENT OF FIRE ANTS AND HARVESTER ANTS IN TURFGRASS
DO NOT ALLOW LIVESTOCK TO GRAZE TREATED AREAS. DO NOT FEED TREATED GRASS TO LIVESTOCK

PLANTS	INSECTS	AMOUNT OF THIS PRODUCT	TIME OF APPLICATION	RECOMMENDED APPLICATION
Turfgrass Residential, Recreational and Commercial Turf	Imported Fire Ants and Harvester Ants*	Mound Treatment - Drench Method: Mix 3/4 ounce in 5 gallons of water. Apply 1 gallon of mix to each mound area by sprinkling the mound until it is wet and treat a four (4) foot diameter circle around the mound.	For best results apply the material in the early morning or late afternoon when the ants are most active. Applications made under prolonged hot and dry conditions may be ineffective due to the location of the ants deep within the nest.	Apply the specified amount of this product as directed. Grass in treated areas may be injured. Do not treat mound more than once per season.

*Not registered in CA for control of Harvester Ants.

OUTDOOR AND PERIMETER SPRAY

LOCATION	INSECTS	AMOUNT OF THIS PRODUCT PER GALLON	TIME OF APPLICATION	RECOMMENDED APPLICATION
Outdoor and Perimeter Area	Wasp	1.2 ounces	Treat early or late in the day, as wasps are generally less active during these times.	Apply specified amount of this product per each gallon of water used. Apply as a spot treatment to the nest, nest entrance, and surrounding areas where the wasps alight.
	Ants, including Imported Fire Ants and Harvester Ants* Crickets Cockroaches Earwings Pillbugs	1.2 ounces	As the insects appear.	Apply specified amount of the product per each gallon of water used. Apply to a band of soil 6 to 10 feet adjacent to the structure and to a height of 2 to 3 feet on the foundation where pests may be active or may find entrance. Also apply as a residual spray or with a paint brush to surfaces of buildings, window frames, shutters, entryways, screens, eaves, patios, garages, carports, around garage areas and other areas where these pests congregate.
NOTE: Not for use on residential turfgrass. Do not use low pressure hand wand application equipment.				

*Not registered in CA for control of Harvester Ants.

OUTDOOR FLORAL CROPS AND GROUND COVERS

PLANTS	INSECTS	AMOUNT OF THIS PRODUCT PER 100 GALLONS	TIME OF APPLICATION	RECOMMENDED APPLICATION
Chrysanthemums Dahlias Daisies Easter Lily Gladioli <i>Gypsophila</i> Pachysandra Pansy Peony Roses Sedum Statice Strawflower Yarrow Zinnia	Aphids Thrips Lygus	1/2 pound (8 ounces)	As insects begin to appear. Repeat applications may be necessary.	Apply the specified amount of this product in 100 gallons of water with a hydraulic sprayer as a full coverage spray. Multiple applications may cause slight tip burn or marginal leaf necrosis on some varieties. Test on a few plants to determine varietal susceptibility.
Boston Ivy Roses	Japanese Beetle	1 pound (16 ounces)	As the Japanese Beetles begin to appear. Repeat applications at 2 week intervals may be necessary.	

The minimum reapplication intervals are 3 days if applying 0.5 lb. a.i./acre or less and 7 days if applying greater than 0.5 lb. a.i./acre. The maximum application rate is 0.75 lb. a.i./acre per 100 gallons of water for cut flowers and 1.0 lb. a.i. per 100 gallons of water for all other ornamentals.

GREENHOUSE FLORAL AND FOLIAGE PLANT CROPS

PLANTS	INSECTS	AMOUNT OF THIS PRODUCT PER 100 GALLONS	TIME OF APPLICATION	RECOMMENDED APPLICATION
Roses	Leafrollers	1/2 to 3/4 pound (8 to 12 ounces)	As leafrollers begin to appear. Use the higher amount when the large larvae are present.	Apply the specified amount of this product in 100 gallons of water with a hydraulic sprayer as a full coverage spray. The addition of a wetting agent may be required on difficult to wet foliage. Caution: Phytotoxicity has occurred on the following foliage plants: <i>Blechnum gibbum</i> , <i>Cissus antarctica</i> , <i>Ficus triangularis</i> , <i>Fittonia verschaffelii</i> , <i>Maranta leuconeura kerchoveana</i> , <i>Pachystachya lutea</i> , <i>Plectranthus australis</i> , <i>Polypodium aureus</i> , <i>Polystichum</i> , <i>Pteris ensiformis</i> , <i>Tolmiea menziesii</i> .
Foliage Plants Anthuriums Cacti Orchids Poinsettia	Aphids	1/2 pound (8 ounces)	As aphids begin to appear.	Before treating large plantings spray only a few plants and observe two weeks for varietal phytotoxicity. Application of this product on Poinsettias after bract formation may result in phytotoxicity on certain varieties. (Continued)
(continued)	Mealybugs Thrips Whiteflies	1/2 pound (8 ounces)	As the insects begin to appear. A repeat application, at a 2 week interval, may be necessary for control of mealybugs and whiteflies.	

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GREENHOUSE FLORAL AND FOLIAGE PLANT CROPS (Continued)

PLANTS	INSECTS	AMOUNT OF THIS PRODUCT PER 100 GALLONS	TIME OF APPLICATION	RECOMMENDED APPLICATION
Foliage Plants Anthuriums Cacti Orchids Poinsettia	Scale (Crawlers)	1/2 pound (8 ounces)	As crawlers begin to appear. Repeat applications, at a 2 week or more interval, may be necessary where there is continuous crawler production.	
	Sweet Potato Whiteflies (Except CA)	1/4 pound (4 ounces) plus Fenpropathrin 2.4% EC 10-2/3 fluid ounces (0.2 pound ai)	Apply when insects first appear. If a population is well established, make one application of the tank mix and follow 5 to 7 days later with Fenpropathrin 2.4% EC alone at 16 fluid ounces per 100 gallons. See Fenpropathrin 2.4% EC label for instructions.	For sweet potato whitefly control, apply the specified amount of the product plus Fenpropathrin 2.4% EC as a tank mix at a volume necessary to obtain good coverage. Follow the Fenpropathrin 2.4% EC label for specific instructions on the alternation of Fenpropathrin 2.4% EC plus this product and Fenpropathrin 2.4% EC alone and the rotation instructions to avoid potential resistance.
Carnations Chrysanthemums Roses	Aphids Thrips	1/2 pound (8 ounces)	As aphids begin to appear. As thrips begin to appear or at the tight flower bud stage. Repeat applications may be necessary.	Apply the specified amount of this product in 100 gallons of water with a hydraulic sprayer as a full coverage spray. Do not apply more often than once every 28 days to Carnations and Chrysanthemums. Caution: Phytotoxicity has occurred on the following Chrysanthemum varieties: Albatross, Bonnie Jean, Dixie, Garland, Gem, Iceberg, Pride, Showoff, Statesman, Tally Ho, Westward Ho and Wild Honey. Before treating large Chrysanthemum plantings, spray only a few plants and observe two weeks for varietal phytotoxicity. Do not apply to Chrysanthemums and Roses with open flowers.

For greenhouse and outdoor ornamentals, the maximum application rate is 1 lb a.i./acre per 100 gallons of water. Not to exceed 0.75 lb a.i./acre for cut flowers and 1.0 lb a.i./acre for all other ornamentals. Do not apply under conditions involving possible drift to food, forage or other plantings that might be damaged or the crops thereof rendered unfit for sale, use or consumption.

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STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage, disposal or cleaning of equipment. Open dumping is prohibited.

PESTICIDE STORAGE: Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Store in cool, dry place. Protect from excessive heat. Do not contaminate food or foodstuffs. Do not store or transport near feed or food. For help with any spill, leak, fire or exposure involving this material, call CHEMTREC (800) 424-9300.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Completely empty canister into application equipment. Do not reuse container. Dispose of empty canister in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

NOTE: The product is sold by weight and package is full when packed, and is inclined to settle.

Conditions of Sale and Limitation of Warranty and Liability:

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions beyond the control of Nufarm or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Nufarm and Seller harmless for any claims relating to such factors.

Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the Directions for Use when used in accordance with the directions under normal conditions of use. NUFARM MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, NOR ANY OTHER EXPRESS OR IMPLIED WARRANTIES WITH RESPECT TO THE SELECTION, PURCHASE OR USE OF THIS PRODUCT. Any warranties, express or implied, having been made are inapplicable if this product has been used contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to (or beyond the control of) seller or Nufarm, and buyer assumes the risk of any such use.

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