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January 30, 1998

Mr. S.K. Theodorakis
Zeneca Ag Products
P.O. Box 15458
Wilmington, DE 19850-5458

Dear Mr. Theodorakis:

Subject: Amendments - General Revisions, Change End User Statement
Scimitar® WP Insecticide
EPA Reg. No. 10182-300
Scimitar® WP Insecticide in Water Soluble Packets
EPA Reg. No. 10182-360
Scimitar® CS Insecticide
EPA Reg. No. 10182-381
Your April 17, 1997, June 30, 1997 and September 4, 1997 Submissions

The labeling for the three products referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable provided that you make the labeling change indicated below prior to release for shipment of product bearing the amended labeling.

1) Revise the end user statement to read as follows:

“For Use by Individuals/Firms Licensed or Registered by the State to Apply Pesticide Products. States May Have More Restrictive Requirements Regarding Qualifications of Persons Using This Product. Consult the Pest Control Regulatory Agency of Your State Prior to Use of This Product.”

Stamped copies of the labels are enclosed for your records.

Sincerely,

George T. LaRocca
Product Manager (13)
Insecticide Branch
Registration Division (7505C)

Enclosure

2712

SCIMITAR® CS Insecticide

Not for sale to, use or storage by individual homeowners unless licensed by the state.

Only for Sale to, Use, and Storage by Commercial Applicators

For Use to Control Insect Pests on Ornamentals and Lawns in
Landscaped Areas Around Residential, Institutional, Public,
Commercial and Industrial Buildings, Parks, Recreational Areas and Athletic Fields

ACTIVE INGREDIENT:

Lambda-cyhalothrin*

[1α(S*),3α(Z)]-(±)-cyano(3-phenoxyphenyl)methyl-3-
(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-
dimethylcyclopropanecarboxylate

9.7%

INERT INGREDIENTS:

90.3%

Total

100.0%

*Synthetic pyrethroid

Contains 0.88 lbs active ingredient per gallon or 0.22 lbs ai per quart.

EPA Reg. No. 10182-381
EPA Est. No.

Net Contents:

KEEP OUT OF REACH OF CHILDREN

CAUTION

See Back Panel for Statement of Practical Treatment and Precautionary Statements

Made in U.S.A.
ZENECA Professional Products
ZENECA Inc.
Wilmington, DE 19897 19850-5458

ACCEPTED
with COMMENTS
in EPA Letter Dated

JAN 30 1998

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

10182-381

STATEMENT OF PRACTICAL TREATMENT

IF ON SKIN: Wash with plenty of soap and water. Get medical attention if irritation persists.

IF SWALLOWED: If victim is alert and not convulsing, rinse mouth out and give 200-300 ml (1 cup) of water to dilute material. Immediately contact local Poison Control Center. Vomiting should only be induced under the direction of a physician or Poison Control Center. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus, rinse mouth and administer more water. Immediately transport victim to an emergency facility.

IF IN EYES: Flush with plenty of water for at least 15 minutes. Get medical attention if irritation persists.

FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE, CALL 1-800-F-A-S-T-M-E-D (327-8633).

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300.

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PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

HARMFUL IF ABSORBED THROUGH SKIN. PROLONGED OR FREQUENTLY REPEATED SKIN CONTACT MAY CAUSE ALLERGIC SKIN REACTIONS IN SOME INDIVIDUALS. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist or vapors. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish. Do not contaminate water when disposing of equipment washwaters. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Apply this product only as specified on this label. Care should be used when making applications spraying to avoid household pets, particularly fish and reptile pets.

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.

Use of this pesticide adjacent to water may affect aquatic organisms. To protect these organisms, do not apply this pesticide within 25 feet of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries and commercial fish farm ponds.

Do not make applications when wind speed is 15 miles per hour or greater.

Notify State and/or Federal authorities and ZENECA Inc. immediately if you observe any adverse environmental effects due to the use of this product.

PHYSICAL AND CHEMICAL HAZARDS

Do not use this product in or on electrical equipment due to the possibility of shock hazard.

**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, presence of other materials or other influencing factors in the use of the product, which are beyond the control of ZENECA or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold ZENECA and Seller harmless for any claims relating to such factors.

ZENECA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or ZENECA, and Buyer and User assume the risk of any such use. ZENECA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

In no event shall ZENECA or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF ZENECA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF ZENECA OR SELLER, THE REPLACEMENT OF THE PRODUCT.

ZENECA and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by a duly authorized representative of ZENECA.

DIRECTIONS FOR USE

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

IMPORTANT: Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior plantscapes, ornamental gardens or parks, or on lawns or grounds.

SCIMITAR CS may be used for applications to maintain indoor or outdoor areas where turf and ornamentals are grown such as residential landscaped areas and non-residential landscapes around institutional, public, commercial and industrial buildings, parks, recreational areas and athletic fields.

IMPORTANT: Time application to flowering plants during periods when pollinating insects are not present, such as early morning or late evening.

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

DO NOT APPLY THIS PRODUCT TO EDIBLE CROPS

DO NOT APPLY THIS PRODUCT BY AERIAL APPLICATION

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

STORAGE: Keep container closed when not in use. Do not store near food or feed. Shake well before use. Protect from freezing. In case of spill or leak on floor or paved surfaces, soak up with sand, earth or synthetic absorbent. Remove to chemical waste storage area until proper disposal can be made..

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office guidance.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Completely empty container into application equipment, then offer for recycling or reconditioning, or puncture and dispose of empty container in a sanitary landfill, by incineration, or by other procedures approved by state and local authorities.

MIXING: SCIMITAR® CS insecticide is intended for dilution with water for spray application and may be used in all types of application equipment. Fill application tank with ½ to ¾ volume of water. and add SCIMITAR CS and then fill to desired volume. Close and agitate before use in order to ensure proper suspension of the microencapsulated concentrate. It is suggested that the water be 5 to 7 pH. Adjust water pH with a buffering agent if necessary. Slowly add SCIMITAR CS to applicator tank water with maximum agitation. If other chemicals are added to the applicator tank, SCIMITAR CS should be added last. Do not mix with EC formulations or oils. Fill tank to desired volume and continue to agitate while making applications. Shake or reagitate application equipment before use if application is interrupted. Make up only amount of application volume as required.

COMPATIBILITY: SCIMITAR CS has been found to be compatible with all commonly used fungicides, miticides, liquid fertilizers, and other insecticides. Check physical compatibility using the correct proportion of products in a small jar if local experience is unavailable.

APPLICATION: SCIMITAR CS insecticide mixes readily with water and may be used in all types of application equipment. Mix product with the required amount of water and apply as a dilute application to the point of runoff. When applying hard-to-wet foliage such as holly, pine, or ivy, the addition of a spreader-sticker may enhance knockdown and residual activity. If concentrate or mist-type application equipment is used, an equivalent amount of product should be used on the area treated as would be used in a dilute application. Phytotoxicity testing has been carried out on a wide range of ornamental plants under various environmental conditions, and no phytotoxicity has been observed. It is advised to pretreat a selection of ornamentals if local use experience is unavailable.

SCIMITAR CS may be used for applications to maintain indoor or outdoor areas where turf and ornamentals are grown such as residential landscaped areas and non-residential landscapes around institutional, public, commercial and industrial buildings, parks, recreational areas and athletic fields.

IMPORTANT: Time application to flowering plants during periods when pollinating insects are not present, such as early morning or late evening.

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

DO NOT APPLY THIS PRODUCT TO EDIBLE CROPS.

SCIMITAR CS Insecticide Container
SCICS381.RSE - 090397

USE	PEST	AMOUNT OF SCIMITAR CS	REMARKS
<p>ORNAMENTALS IN RESIDENTIAL LANDSCAPED AREAS AND LANDSCAPED AREAS AROUND INSTITUTIONAL, PUBLIC, COMMERCIAL AND INDUSTRIAL BUILDINGS, PARKS, RECREATIONAL AREAS, AND ATHLETIC FIELDS (Including Trees, Shrubs, Flowers, Evergreens, Foliage Plants and Groundcovers)</p>	<p>Ants (Including Imported fire ants)² Armyworms Azalea caterpillar Aphids Bagworms³ Black vine weevil (adult) Boxelder bugs Budworms California oakworm Cankerworms Cockroaches Crickets Cutworms Eastern Tent caterpillar Elm leaf beetles European sawfly Fall webworm Flea beetles Forest tent caterpillar Gypsy moth larvae Japanese beetles (adults) June beetles (adults) Lace bugs Leaf-feeding caterpillars Leafhoppers Leafminers (adults) Leaf rollers Leaf skeletonizers Midges Mosquitoes Oleander moth larvae Pillbug Pine sawfly Pine shoot beetles Pinetip moths Plant bugs Root weevil Sawfly Scale insects (crawlers) Spiders Spittlebugs Striped beetles Striped oakworm Thrips Tip moth Tussock moth larvae Wasps</p>	<p>1.5 to 5 fl oz/ 100 gals or 44 to 148 ml/ 100 gals¹</p>	<p>Applications should be started prior to establishment of high pest population and reapplications made as necessary to keep populations under control, using higher rates as pest pressure increases.</p> <p>Good spray coverage is necessary to provide the most effective level of control. Addition of spreader/sticker at recommended rates may enhance control of insects on certain species of ornamentals having hard-to-wet foliage.</p> <p>Apply at 7-day intervals if retreatment is necessary.</p> <p>Do not apply more than 0.36 lbs of active ingredient per acre per year.</p> <p>Do not apply to any plants grown for food or feed.</p> <p>Use of this pesticide adjacent to water may affect aquatic organisms. To protect these organisms, avoid applying this pesticide within 25 feet of ponds, lakes, streams, estuaries, and marine habitats.</p> <p>NOTE: Certain cultivars may be sensitive to the final solution. A small number of plants should be treated prior to application of entire planting.</p>

USE	PEST	AMOUNT OF SCIMITAR CS	REMARKS
	Broadmite Brown softscale California redscale (crawler)* Clover mites Mealybugs Pineneedlescale (crawler)* Spider mites Whiteflies	3 to 5 fl oz/ 100 gals or 88 to 148 ml/ 100 gals	

Application to ornamentals should be started prior to the establishment of high insect pest populations. Make reapplications as necessary to keep pest populations under control, using higher rates as pest pressure increases.

Apply at 7-day intervals if treatment is necessary.

Do not apply more than 0.36 pounds of the active ingredient (52.4 fl oz of concentrate) per acre per year.

Good spray coverage is necessary to provide the most effective level of control. Addition of a spreader-sticker at recommended rates may enhance the control of insects on certain species of ornamentals having waxy, hard to wet foliage.

For spot treatments use 0.5 fl oz SCIMITAR CS per 1 to 2 ½ gallons of water.

Consult your state university or local Cooperative Extension Service office for specific pest control application timing in your area.

NOTE: While phytotoxicity testing has been carried out on a wide range of ornamental plants under various environmental conditions, and no phytotoxicity has been observed, certain cultivars may be sensitive to the final spray solution.

It is advised to prespray a selection of ornamental plants and observe them for 7 to 10 days prior to treating large areas if local use experience is unavailable.

Scale. Thoroughly cover the plant with SCIMITAR CS spray, including trunks, stems, twigs and foliage for control of scale insects.

Bagworm. Apply SCIMITAR CS when bagworm larvae begin to hatch. Spray directly on the larvae. Application is the most effective when the larvae are young.

SCIMITAR CS MIXING CHART FOR ORNAMENTAL INSECT PEST CONTROL
(SCIMITAR CS to add per spray tank)

Rate of SCIMITAR CS	25 Gallons	50 Gallons	100 Gallons	200 Gallons	300 Gallons
1.5 oz	0.4 oz	0.8 oz	1.5 oz	3.0 oz	4.5 oz
3 oz	0.8 oz	1.5 oz	3.0 oz	6.0 oz	9.0 oz
5 oz	1.3 oz	2.5 oz	5.0 oz	10.0 oz	15.0 oz

USE	PEST	AMOUNT OF SCIMITAR CS	REMARKS
LAWNS AROUND RESIDENTIAL, INSTITUTIONAL, PUBLIC, COMMERCIAL AND INDUSTRIAL BUILDINGS, PARKS, RECREATIONAL AREAS AND ATHLETIC FIELDS	Ants (Including Imported fire ants) ² Armyworms Centipede Crickets Cutworms Earwigs Fleas (adult) Grasshopper Japanese beetle (Adult) Millipedes Mites Pillbugs Sod webworms Sow bugs Ticks (including species which transmit Lyme disease)	3.4 to 7 ml/1000 sq ft or 5 to 10 fl oz/acre	Apply when pests first appear. Use the 3.4 ml/1000 sq ft rate for light infestations and/or maintenance. Subsurface feeders such as grubs and mole crickets will only be controlled if exposed to the insecticide. The addition of a spread sticker may enhance control. Watering following application (1/4 - 1/2 inch) will also help control. Apply at 7-day intervals if retreatment is necessary. Do not apply more than 0.36 lbs active ingredient per acre per year. Delay watering or mowing for at least 24 hours for optimum control of surface feeding insect pests.
	Bluegrass billbug (adult) Black turfgrass ataenius (adult) Chinch bugs Chiggers Fleas (adult) Grubs (suppression) Hyperodes weevil (adult) Mole cricket (nymphs and young adults)	7 ml/1000 sq ft or 10 fl oz/acre	Keep children and pets off treated areas until spray has dried following the application. Use of this pesticide adjacent to water may affect aquatic organisms. To protect these organisms, avoid applying this pesticide within 25 feet of ponds, lakes, streams, rivers, estuaries, and marine habitats. Do not make applications when wind speed is 15 miles per hour or greater.
	Mole Crickets (mature adults) Chinch Bugs	14 ml/1000 sq ft or 20 fl oz	

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¹For spot treatments, use 0.5 fl oz per 1 to 2½ gallons of water.

²To control ants effectively, the mound must be treated with a drench application. Use 0.5 fl oz of SCIMITAR CS per 2.5 gallons of water and thoroughly cover and soak each mound and treat a 4-foot diameter circle around the mound. Apply mixture gently to avoid disturbing the mound. Disturbing the mound may disturb the ants and cause migration, thus reducing effectiveness of treatment. For best results apply in cool weather, such as in early morning or late evening hours, but not in the heat of the day. Make additional treatments as needed.

³Bagworm: Apply when larvae begin to hatch. Spray larvae directly. Applications made when larvae are young will be most effective.

⁴Scalecrawlers/twig borers: Treat trunks, stems and twigs in addition to plant foliage.

AMOUNT OF SCIMITAR CS /100 GALLONS			
RATE	SPRAY VOLUME/GALLONS/1000 SQ FT		
	2.0 gals/1000 sq ft	3.0 gals/1000 sq ft	4.0 gals/1000 sq ft
3.4 ml	177 ml or 6 fl oz/100 gals	118 ml or 4 fl oz/100 gals	89 ml or 3 fl oz/100 gals
7 ml	350 ml or 11.8 fl oz/100 gals	236 ml or 8 fl oz/100 gals	177 ml or 6 fl oz/100 gals

Application to turf should be started prior to the establishment of high insect pest populations and significant turf damage. Make reapplications as necessary to keep pest populations under control, using higher rates as pest pressure increases.

Apply at 7-day intervals if treatment is necessary.

Do not apply more than 0.36 pounds of active ingredient (52.4 fl oz of concentrate) per acre per year.

For spot treatments use 0.5 fl oz of SCIMITAR CS per 1 to 2½ gallons of water.

Do not apply when turfgrass are waterlogged or when soils are saturated with water (i.e. will not accept irrigation).

Keep children and pets off treated areas until spray has dried following the application.

Surface Insect Control (armyworm, cutworms, fleas, etc.) For best results apply SCIMITAR CS at recommended rates in 2 to 5 gallons of water per 1,000 sq. ft. The use of a spreader-sticker may be useful if high rainfall amounts are forecast, otherwise the addition of adjuvants is not necessary under normal conditions for surface insect control in turf. Delay watering or mowing for 12 to 24 hours for optimum control of surface feeding insect pests.

Thatch Inhabiting Insect Control (chinch bugs, billbugs, etc.) For best results apply SCIMITAR CS at recommended rates in 2 to 10 gallons of water per 1,000 sq. ft. The use of a non-ionic wetting agent, penetrant or similar adjuvant is recommended at label rates. Lightly irrigate after application with up to ½ inch of water to move the SCIMITAR CS into the thatch layer. If irrigation is not available, then use high water application rates for optimum results.

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Subsurface Insect Control (mole crickets, grubs, etc.) For best results apply SCIMITAR CS at recommended rates in 4 to 10 gallons of water per 1,000 sq. ft. The use of a non-ionic wetting agent, penetrant or similar adjuvant is strongly recommended following label rates. Use the highest water application rates possible with your sprayer. Apply SCIMITAR CS to turf wet with dew, rain or irrigation. Water-in immediately after application with 1/4 to 1/2 inch of water for optimum results.

Fire Ant Control Treat individual mounds with a drench application using a watering can. Use 0.5 fl. oz. of SCIMITAR CS per 2.5 gallons of water. Thoroughly soak each mound and a 3 foot diameter circle around each mound. Gently apply the mixture to avoid disturbing the mound. Disturbing the mound may cause the ants to migrate and reduce the effectiveness of the treatment. For best results, apply in early morning or late evening hours. Make additional treatments as needed.

Mosquito Control Apply as a general spray around landscape plantings, turf, and building foundations to control mosquitoes. For best results apply SCIMITAR CS at recommended rates in 2 to 5 gallons of water per 1,000 sq. ft.

SCIMITAR CS Mixing Chart for Turf Insect Pest Control
(SCIMITAR CS to add per 100 gallon spray tank)

Rate of Scimitar	Application Rate Per 1,000 Square Feet of Turf				
	2 gal.	4 gal.	6 gal.	8 gal.	10 gal.
5 oz./acre	5.7 oz.	2.9 oz.	1.9 oz.	1.4 oz.	1.2 oz.
10 oz./acre	11.5 oz.	5.7 oz.	3.8 oz.	2.9 oz.	2.3 oz.
20 oz./acre	23.0 oz.	11.5 oz.	7.7 oz.	5.7 oz.	4.6 oz.
36 oz./acre	41.3 oz.	20.7 oz.	13.8 oz.	10.3 oz.	8.3 oz.

Conversion Rate: 1 fluid ounce (fl. oz.) equals 29 milliliters (ml)