

PM 03 10182-402 10/3/97 Page 1 of 12

ACCEPTED

OCT - 3 1997

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 10182-402

Page 1 of 12
SCIMITAR WP Water Soluble Packs Container
SCIGC402.RSB - 062797

RESTRICTED USE PESTICIDE
Due to Toxicity to Fish and Aquatic Organisms

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.

SCIMITAR® WP Golf Course Turf Insecticide in Water-Soluble Packs

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

ACTIVE INGREDIENT:

Lambda-cyhalothrin¹

[1 α (S*),3 α (Z)]-(\pm)-cyano(3-phenoxyphenyl)methyl-3-

(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-

dimethylcyclopropanecarboxylate 10.0%

INERT INGREDIENTS² 90.0%

Total 100.0%

¹Synthetic pyrethroid

²Contains aromatic petroleum distillates.

EPA Reg. No. 10182-402

EPA Est. No.

Net Contents:

KEEP OUT OF REACH OF CHILDREN
WARNING

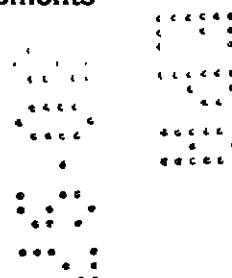
DO NOT REMOVE PACKAGES FROM CONTAINER EXCEPT FOR IMMEDIATE USE

AVISO

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la
etiqueta le haya sido explicada ampliamente.

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



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STATEMENT OF PRACTICAL TREATMENT

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: Wash with plenty of water. Get medical attention if irritation persists.

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

IF INHALED: Remove victim to fresh air. If not breathing give artificial respiration, preferably by mouth-to-mouth.

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

WARNING

MAY BE FATAL IF SWALLOWED. HARMFUL IF ABSORBED THROUGH SKIN OR INHALED. CAUSES EYE IRRITATION. PROLONGED OR FREQUENTLY REPEATED SKIN CONTACT MAY CAUSE ALLERGIC SKIN REACTION IN SOME INDIVIDUALS. Do not get in eyes, on skin or clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco.

Wear goggles and rubber gloves when handling or mixing wettable powder.

Skin exposure may also result in a sensation described as a tingling, itching, burning or prickly feeling. Onset may occur immediately to 4 hours after exposure and may last 2 to 30 hours, without damage. Wash exposed areas once with soap and water. Relief from the skin sensation may be obtained by applying an oil-based cream.

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.

**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,

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.

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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 golf courses or lawns or grounds.

SCIMITAR® WP Golf Course Turf Insecticide in Water Soluble Packs 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, golf courses and athletic fields.

SCIMITAR WP Golf Course Turf Insecticide in Water Soluble Packs may also be used for applications to golf course fairways, greens, greens aprons, and tee areas. Not for use on sod farms or grass grown for seed.

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. Do not reuse empty container.

STORAGE: Mix as needed. Do not store diluted material. Do not store near food or feed. In case of spill on floor or paved surfaces, sweep up and remove to chemical waste storage area until proper disposal can be made. Keep water-soluble packs in original foil package and store in cool dry place. Do not store below 32°F. Handle carefully when stored at temperatures less than 50°F to avoid breakage of packs.

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: When all packs are used, dispose of foil package in a sanitary landfill, by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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MIXING: Do not allow packs to become wet before adding to the application tank. Wear dry gloves when handling water-soluble packs. Minimize handling of packs since excessive handling may cause rupture. SCIMITAR® WP insecticide is intended for dilution with water for application and may be used in all types of application equipment. Fill application tank with 1/2 volume of water and add water-soluble pack(s) of SCIMITAR WP Golf Course Turf Insecticide in Water Soluble Packs and then fill to desired volume. Wait 2 minutes for pack(s) to dissolve. Close and agitate before use in order to ensure proper suspension of the wettable powder. Shake or reagituate application equipment before use if application is interrupted. Make up only amount of application volume as required.

COMPATIBILITY: SCIMITAR WP Golf Course Turf Insecticide in Water Soluble Packs 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 WP Golf Course Turf Insecticide in Water Soluble Packs 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 to 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 WP 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, golf courses and athletic fields.~~

~~SCIMITAR WP may also be used for applications to golf course fairways, greens, greens aprons and tee areas.~~

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USE	PEST	AMOUNT OF SCIMITAR WP	REMARKS
ORNAMENTALS IN RESIDENTIAL LANDSCAPED AREAS AND LANDSCAPED AREAS AROUND INSTITUTIONAL, PUBLIC, COMMERCIAL AND INDUSTRIAL BUILDINGS, PARKS, RECREATIONAL AREAS, GOLF COURSES, AND ATHLETIC FIELDS (Including Trees, Shrubs, Flowers, Evergreens, Foliage Plants and Groundcovers)	Ants (Including Imported fire ants) ² Armyworms Azalea caterpillar Aphids Bagworms ³ 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	1.2 to 4.8 oz/ 100 gals. or 1 to 4 soluble packs/100 gals. ¹	<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 0.35 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>

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USE	PEST	AMOUNT OF SCIMITAR WP	REMARKS
	Broadmite Brown softscale California redscale (crawler) ⁴ Clover mites Mealybugs Pineneedlescale (crawler) ⁴ Spider mites Whiteflies	2.4 to 4.8 oz/ 100 gals. or 2 to 4 soluble packets/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 (57.6 oz. of wettable powder) 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 one (1.2 oz.) SCIMITAR WP Golf Course Turf Insecticide water soluble pack per 3 to 6 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 WP Golf Course Turf Insecticide in Water Soluble Packs spray, including trunks, stems, twigs and foliage for control of scale insects.

Bagworm: Apply SCIMITAR WP Golf Course Turf Insecticide in Water Soluble Packs when bagworm larvae begin to hatch. Spray directly on the larvae. Application is the most effective when the larvae are young.

SCIMITAR WP GOLF COURSE TURF INSECTICIDE IN WATER SOLUBLE PACKS MIXING
CHART FOR ORNAMENTAL INSECT PEST CONTROL
(Scimitar WP to add per spray tank)

<u>Rate of Scimitar WP</u>	<u>25 Gallons</u>	<u>50 Gallons</u>	<u>100 Gallons</u>	<u>200 Gallons</u>	<u>300 Gallons</u>
1.2 oz.	0.3 oz.	0.6 oz.	1.2 oz.	2.4 oz.	3.6 oz.
2.4 oz.	0.6 oz.	1.2 oz.	2.4 oz.	4.8 oz.	7.2 oz.
4.8 oz.	1.2 oz.	2.4 oz.	4.8 oz.	9.6 oz.	14.4 oz.

USE	PEST	AMOUNT OF SCIMITAR WP	REMARKS
LAWNS AROUND RESIDENTIAL, INSTITUTIONAL, PUBLIC, COMMERCIAL AND INDUSTRIAL BUILDINGS, PARKS, RECREATIONAL AREAS, GOLF COURSES AND ATHLETIC FIELDS GOLF COURSE TURF	Ants (Including Imported fire ants) ² Armyworms Centipede Crickets Cutworms Earwigs Fleas (adult) Grasshopper Japanese beetle (Adult) Millipedes Mites Pillbugs Sod webworms Sow bugs Spittlebugs Ticks (including species which transmit Lyme disease)	3 to 6 grams/1000 sq. ft. or 4.8 to 9.6 oz/Acre or 4 to 8 soluble packets/Acre	Apply when pests first appear. Use the 3 grams/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 crickets (nymphs and young adults)	6 grams/1000 sq. ft. or 9.6 oz/Acre or 8 soluble packets/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	12 grams/1000 sq. ft. or 19.2 oz/Acre or 16 soluble packets/Acre	

One (1) water-soluble pack contains 1.2 oz (34 grams) SCIMITAR WP.

- 1 For spot treatments, use 1 pack per 2 1/2 to 5 gallons of water.
- 2 To control ants effectively, the mound must be treated with a drench application. Use 1 pack of SCIMITAR WP 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.
- 3 Bagworm: Apply when larvae begin to hatch. Spray larvae directly. Applications made when larvae are young will be most effective.
- 4 Scale crawlers/twig borers: Treat trunks, stems and twigs in addition to plant foliage.

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 (57.6 oz. of wettable powder) per acre per year.

For spot treatments use one (1.2 oz.) SCIMITAR WP Golf Course Turf Insecticide water soluble pack per 3 to 6 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 WP Golf Course Turf Insecticide in Water Soluble Packs 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 WP Golf Course Turf Insecticide in Water Soluble Packs 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 1/2 inch of water to move the SCIMITAR WP Golf Course Turf Insecticide in Water Soluble Packs into the thatch layer. If irrigation is not available, then use high water application rates for optimum results.

Subsurface Insect Control (mole crickets, grubs, etc.) For best results apply SCIMITAR WP Golf Course Turf Insecticide in Water Soluble Packs 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 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 one (1.2 oz.) SCIMITAR WP Golf Course Turf Insecticide water soluble pack per 6 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 WP Golf Course Turf Insecticide in Water Soluble Packs at recommended rates in 2 to 5 gallons of water per 1,000 sq. ft.

SCIMITAR WP Golf Course Turf Insecticide in Water Soluble Packs
Mixing Chart for Turf Insect Pest Control
(Scimitar WP 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.
4.8 oz./acre	5.7 oz.	2.9 oz.	1.9 oz.	1.4 oz.	1.2 oz.
9.6 oz./acre	11.5 oz.	5.7 oz.	3.8 oz.	2.9 oz.	2.3 oz.
19.2 oz./acre	23.0 oz.	11.5 oz.	7.7 oz.	5.7 oz.	4.6 oz.

Conversion Rate: 1 ounce equals 28.35 grams.

AMOUNT OF SCIMITAR WP PACKETS/GALLON(S) OF WATER BASED ON GRAMS OF ACTIVE INGREDIENT PER 1000 SQ. FT.			
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 grams	4 packs/91 gals.	2 packs/68 gals.	2 packs/91 gals
6 grams	8 packs/91 gals	5 packs/85 gals	4 packs/91 gals
12 grams	16 packs/91 gals	10 packs/85 gals	8 packs/91 gals

NOTE: To calculate amount needed per 1000 sq. ft., multiply 0.006 (for 6 gram rate) or 0.003 (for 3 gram rate) by the number of square feet to be sprayed. Divide that figure by 34 (grams per packet) to determine the number of packets needed.