432-1474 10/30/2008 1/17

U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505P)
Ariel Rios Building
1200 Pennsylvania Ave., NW
Washington, D.C. 20460

EPA Reg. Number: 432-1474

Date of Issuance: OCT 30 2008

Term of Issuance: conditional

NOTICE OF PESTICIDE:
x Registration
__ Reregistration
(under FIFRA, as amended)

Name of Pesticide Product: SC 450 Turf and Ornamental Herbicide

Name and Address of Registrant (include ZIP Code):
Bayer CropScience
2 T.W. Alexander Dr.
P.O. Box 12014
Research Triangle Park, NC 27709

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/reregistration review of your product when the Agency requires all registrants of similar products to submit data.

2. Submit the data listed below:

Thiencarbazone-methyl (active ingredient):

a. 850.4100 Terrestrial Plant Toxicity Seedling Emergence on a monocotyledonous plant species that is not from the Poaceae family.
b. 860.1650 Submittal of Analytical Reference Standards: Thiencarbazone-methyl and its metabolites BYH 18663-MMT-glucoside (M22), and BYH 18636-MMT (M21) and isotopically labeled standards of each must be provided to the EPA National Pesticide Standards Repository within one year from the date of the Notice of Registration of the technical product (264-1060).
c. 860.1380 Storage Stability: Additional storage stability data (sample extraction and analysis dates for all samples) must be submitted within 2 years from the date of this Notice for the wheat crop field trial study reported in MRID 47070106 to confirm that the sample analysis was completed within 12 months of sample collection.

Signature of Approving Official:

Jim Tompkins
Product Manager 25
Herbicide Branch
Registration Division (7505P)

FOR JIM TOMPKINS

Date: OCT 30 2008

EPA Form 8570-6

d. 870.7800 Immunotoxicity: An immunotoxicity study must be submitted is needed as part of the new data requirements under 40 CFR Part 158 for registration of a pesticide. This data must be submitted within 2 years from the date of the Notice of Registration of the technical product (264-1060).
e. 835.6100 Terrestrial Field Dissipation: This guideline is currently classified as supplemental-upgradeable pending review and acceptability of recently submitted additional soil storage stability data.
f. Analytical Method for The Determination of Residues of BYH18636 and its Metabolites BYH18636-carboxylic acid, BYH18636-sulfonamide, BYH18636 sulfonamide-carboxylic acid, BYH18636-MMT, and BYH18636-triazolinone carboxamide in Soil and Sediment Using LC/MS/MS: The submitted study is considered supplemental-upgradeable because only one transition ion was used. Additional data must be submitted within 2 years from the date of the Notice of Registration of the technical product (264-1060) to upgrade this study status.
g. Independent Laboratory Validation of Method GS-004-W06-01 for The Determination of Residues of BYH18636 and its Metabolites BYH18636-carboxylic acid, BYH18636-sulfonamide, BYH18636 sulfonamide-carboxylic acid, BYH18636-MMT, and BYH18636-triazolinone carboxamide in Soil and Sediment Using LC/MS/MS: This study is considered not acceptable, and a new study must be submitted within 2 years from the date of the Notice of Registration of the technical product (264-1060).
h. 830.6317 Storage Stability: A storage stability study conducted for a minimum of one year at ambient warehouse conditions must be repeated and submitted within 2 years from the date of this Notice.
i. 830.1700: Submit a 5-batch analysis reflecting commercial scale production within one year from the date of the Notice of Registration of the technical product (264-1060). If, after satisfying this requirement, the nominal concentration is found to be different from 97.58%, the applicant will need to submit a revised label for the formulated products with upgraded ingredients statements.

3. Refer to the attached Confidential Appendix for additional data requirements for the safener contained in this product.

4. Make the following label changes:
    a. Throughout the label, under the ingredients statement, change the word "inert" to "other."
    b. In the First Aid section, modify the If Swallowed statement to read:
        i. Immediately call a poison control center or doctor for treatment advice
        ii. Do not induce vomiting unless told to do so by a poison control center or doctor
        iii. Have person sip a glass of water if able to swallow
        iv. Do not give anything by mouth to an unconscious person
    c. Throughout the label, change the order of the First Aid statements to:
        i. If on skin
        ii. If swallowed
        iii. The "If in eyes" statement is optional

d. Add a statement to the label pertaining to Physical and Chemical hazards.
e. Throughout the label, under "Restrictions and Precautions for Use," add a bullet stating the following:
    i. "Leave a buffer zone of 25 feet between area to be treated and nontarget plants."
f. Throughout the label, modify the Hazards to Humans and Domestic Animals statement to read: "Harmful if absorbed through skin. Harmful if swallowed. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse."

g. On page 2, add the word, "exist" after the word, "washables."
h. On page 2, under Environmental Hazards, move the statement "Do not drain or rinse equipment near desirable vegetation" to the Directions for Use section.
i. On page 2, add the words, "level, well-maintained" before the words, "vegetative buffer strip" in the second paragraph under Environmental Hazards.
j. On page 2, remove the last statement under Environmental Hazards, "Avoid spray drift," as there is no Spray Drift Management section on this label.
k. Throughout the label, change any references to "year" or "a single year" to "365 days."
l. On page 10 (homeowner label), remove the word, "Eliminates" from the marketing claims
m. On page 13, in the Environmental Hazards box, move the statement "Do not drain or rinse equipment near desirable vegetation" to the Directions for Use section. Also move the last paragraph in this box to the Directions for Use section. Remove the statement, "Avoid spray drift...." , since there is no Spray Drift Management section of this label.

5. Add the EPA registration number 432-1474.

6. Submit one copy of the revised final printed label for the record.

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.

SC 450 Turf and Ornamental Herbicide

This label contains two separate label statements: **SC 450 Turf and Ornamental Herbicide** intended primarily for commercial use and **SC 450 Turf and Ornamental Herbicide** for residential (homeowner) use.

ACTIVE INGREDIENT:	
THIENCARBAZONE-METHYL*	19.2
INERT INGREDIENTS:	80.8
TOTAL:	100

*Contains THIENCARBAZONE-METHYL at a concentration of 1.88 pounds of active ingredient per gallon. SC 450 Herbicide also contains 1.88 pounds of the safener Cyprosulfamide per gallon.
Shake well before use.

EPA Reg No. 432-XXXX (1474) **E.P.A. Est. No. XXXX-XX-XXX**

ACCEPTED
with COMMENTS
In EPA Letter Dated:
10-30-08
Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.
432-1474

[For Commercial and Residential use]

SC 450 Turf and Ornamental Herbicide

A Herbicide for the Control of Broadleaf Weeds in Warm-Season Turf (Bermuda, Zoysia, St. Augustine, Centipede, and Seashore paspalum) and Ornamentals including Commercial and Residential use sites

ACTIVE INGREDIENT:
THIENCARBAZONE-METHYL*(Methyl 4-[[[(4,5-dihydro-3-methoxy-4-methyl-5-oxo-1H-1,2,4-triazol-1-yl)carbonyl]amino]sulfonyl]-5-methyl-3-thiophenecarboxylate) 19.2
INERT INGREDIENTS: 80.8

TOTAL: 100.0%

*Contains THIENCARBAZONE-METHYL at a concentration of 1.88 pounds of active ingredient per gallon. SC 450 Herbicide also contains 1.88 pounds of the safener Cyprosulfamide per gallon.

Shake well before use.

EPA Reg No. 432-XXXX (1474) E.P.A. Est. No.

KEEP OUT OF REACH OF CHILDREN

CAUTION

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.)

For MEDICAL And TRANSPORTATION Emergencies ONLY Call 24 Hours A Day 1-800-334-7577
For PRODUCT USE Information Call 1-888-331-2867

FIRST AID

IF SWALLOWED:	• Immediately call a poison control center or doctor for treatment advice. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Have person sip a glass of water if able to swallow. • Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING	• Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 – 20 minutes. • Call a poison control center or doctor for treatment advice.
IF IN EYES:	• Hold eye open and rinse slowly and gently with water for 15-20 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.

For MEDICAL Emergencies Call 24 Hours A Day 1-800-334-7577.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

NOTE TO PHYSICIAN: No specific antidote is available. All treatments should be based on observed signs and symptoms of distress in the patient. Overexposure to materials other than this product may have occurred.

PRECAUTIONARY STATEMENTS

HAZARD TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed or absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear: Long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering control statement:

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [(40 CFR §170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should 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.

ENVIRONMENTAL HAZARDS

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 when disposing of equipment washwater or rinsate. Do not drain or rinse equipment near desirable vegetation. .

Non-target plants may be adversely affected if the pesticide is allowed to drift from areas of application. To prevent damage to crops and other desirable plants, read and follow all directions and precautions on this label before using.

This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having "high potential for reaching surface water via runoff", according to the pesticide's "mean" soil partition coefficient (Kd) for several days after application. A vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of thiencarbazone-methyl from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours.

This chemical has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.

Avoid spray drift from treated areas. Refer to the Spray Drift Management section of this label for additional information.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
Read entire label before using this product.

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 same area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticides.

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 intervals. 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 4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated such as plants, soil or water, is coveralls over long-sleeved shirt and long pants, socks and shoes and chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride.

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. Keep unprotected persons out of the treated areas until sprays have dried.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If container is leaking, invert to prevent leakage. If container is leaking or if material is spilled for any reason or cause, carefully contain any spilled material to prevent non-target contamination. Do not walk through spilled material and dispose of as directed for pesticides below. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides above. Refer to Precautionary Statements on label for hazards associated with the handling of this material. In spill or leak incidents, keep unauthorized people away. You may contact the Bayer Environmental Science Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Bayer Environmental Science Emergency Response Telephone No. is 1-800-334-7577 or contact Chemtrec at 1-800-424-9300.

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

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling, if available, or reconditioning; or puncture and disposed of in a sanitary landfill, or by incineration; or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

GENERAL INFORMATION

Uses

Thiencarbazone-Methyl is a postemergent amino acid synthesis inhibitor (ALS) for application as a foliar spray. SC 450 Turf and Ornamental Herbicide is intended for use on golf courses, commercial lawns, cemeteries, parks, campsites, recreational areas, home lawns, roadsides, school grounds, and sodfarms to control broad leaf weeds and grasses in tolerant turf grasses. SC 450 Turf and Ornamental Herbicide may also be used to control weeds around ornamentals in outdoor residences, nurseries and greenhouses.

Symptoms

Weed growth ceases within hours after application. Symptoms progress from yellowing to necrosis generally resulting in eventual plant death within 1-4 weeks after application. The speed of symptom development varies with temperature and will be faster at warmer temperatures than cooler temperatures. For best results, treatments should occur when the minimum average daily temperature is 60-80° F depending on the type of weed, its maturity, and the desired speed of control. Higher rates and temperatures will result in quicker weed removal.

Use Restrictions And Precautions

1. Only for use on Bermuda, Zoysia, St. Augustine, Centipede, and Seashore paspalum. Do not use on Behiagrass or other turf types not listed on this label. Do not use on cool-season turf types such as Fescue, Bluegrass, Perennial Ryegrass, or Bentgrass.
2. Rainfall within 2 hours may necessitate retreatment with SC 450 Turf and Ornamental Herbicide or may result in reduced weed control.
3. Weed control may be reduced if application is made in the presence of heavy dew, fog, and mist/rain or when weeds are under stress due to drought.
4. Apply SC 450 Turf and Ornamental Herbicide spray mixtures within 24 hours of mixing to avoid product degradation.
5. DO NOT apply when wind causes drift to off-site vegetation as injury may occur. Small amounts of SC 450 Turf and Ornamental Herbicide delivered via drift or spray tank contamination can damage other plants. Careful management of spray drift and tank cleanout is necessary.
6. DO NOT apply this product by air or through any type of irrigation system.

Application Methods, Mixing, And Compatibility

Uniform, thorough spray coverage is important to achieve consistent weed control. Select spray nozzles and pressure that deliver **MEDIUM** spray droplets as indicated in nozzle manufacturer's catalogs and in accordance with ASAE Standard S-572. Nozzles that deliver **COARSE** spray droplets may be used to reduce spray drift provided spray volume per acre (GPA) is increased to maintain coverage of weeds.

Spray Solution pH

The efficacy of SC 450 Turf and Ornamental Herbicide may be affected by the pH of the spray solution. A pH near 7 is ideal. If pH is less than 6, add a buffer.

Mixing Instructions

SC 450 Turf and Ornamental Herbicide must be applied with clean and properly calibrated equipment. Prior to adding SC 450 Turf and Ornamental Herbicide, ensure that the spray tank, filters and nozzles have been thoroughly cleaned.

1. Fill spray-tank with 25% to 50% of the required volume of water, and begin agitation prior to the addition of SC 450 Turf and Ornamental Herbicide.
2. Continue agitation to ensure full dispersion of SC 450 Turf and Ornamental Herbicide.
3. Continue agitation during application to ensure a uniform spray mixture.
4. Continue to fill the spray tank with water to the desired volume
5. If SC 450 Turf and Ornamental Herbicide is applied in a tank mixture with other pesticides, add SC 450 Turf and Ornamental Herbicide to the spray tank first and ensure it is thoroughly dispersed before adding other pesticides.
6. Fill the spray tank with water to the desired volume and agitate while adding spray adjuvants and nitrogen fertilizers.

Re-Suspending Suspension Concentrate Products In Spray Solution

Like other suspension concentrates, SC 450 Turf and Ornamental Herbicide will settle if left standing without agitation. If the spray solution is allowed to settle for one hour or more, re-agitate the spray solution.

Compatibility

If SC 450 Turf and Ornamental Herbicide is to be tank mixed with other pesticides not listed specifically on this label, compatibility should be tested prior to mixing. To test for compatibility, use a small container and mix a small amount (0.5 to 1qt) of spray, combining all ingredients in the same ratio as the anticipated use. If any indications of physical incompatibility develop (precipitation, settling, changes in color) do not use this mixture for spraying. Indications of incompatibility usually occur within 5-15 minutes after mixing. Read and follow the label of each tank mix product used for precautionary statements, directions for use, geographic and other restrictions.

TANK CLEANUP PROCEDURE

1. Drain the tank completely, then wash out tank, boom and hoses with clean water. Drain again.
2. Fill the tank half full with clean water and add ammonia (i.e. 3% domestic ammonia solution) at a dilution rate of 1% (i.e. 1 gallon of domestic ammonia for every 100 gallons of rinsate). Completely fill the tank with water. Agitate/recirculate and flush through boom and hoses. Leave agitation on for 10 minutes. Drain tank completely.
3. Repeat Step 2.
4. Remove nozzles and screens and soak them in a 1% ammonia solution. Inspect nozzles and screens and remove visible residues.
5. Flush tank, boom, and hoses with clean water.
6. Inspect tank for visible residues. If present, repeat Step 2.

WEED CONTROL OPTIONS

Tank Additions for Optimum Weed Control

A nitrogen fertilizer may also improve weed control. These additives may cause phytotoxicity to desirable grasses under some situations and should be tested in a limited area prior to widespread use.

- Ammonium sulfate (AMS) and urea ammonium nitrate (UAN) are the best sources of nitrogen. UAN (1.5-2 qt/A) should be used in areas of low relative humidity and spray grade AMS (1.5-3 lb/A) for areas of high relative humidity.

TURF (Warm-season)

General

- Only for use on Bermuda, Zoysia, St. Augustine, Centepede, and Seashore paspalum.
- Do not apply to turf emerging from dormancy or injury may result.
- Keep spray off plants growing near treated turf including vegetables, flowers, shrubs, trees, ground covers, perennials, and herbs.
- Do not mow turf for 1-2 days after application to allow full effect on target weeds.

- Do not allow pets or unprotected persons into the treated area until the spray has dried.
- Since SC 450 Turf and Ornamental Herbicide does not have significant preemergent weed control activity in turf, applications should be made in conjunction with a preemergent such as Ronstar® Herbicide to obtain pre and post activity. Always follow the directions for use on each label and the most restrictive overseeding interval on the products used.

Tolerance

SC 450 Turf and Ornamental Herbicide has been tested and can be used on the following warm-season turfgrass cultivars.

Bermudagrass: Common, Tifway 419, Savannah, Yukon

Zoysiagrass: Meyer

St. Augustine grass: [cultivars to be listed at later date]

Centipedegrass: [cultivars to be listed at later date]

Seashore paspalum: [cultivars to be listed at later date]

Other turf cultivars may be tolerant to SC 450 Turf and Ornamental Herbicide; however, tolerance testing should be done prior to use.

Seeding And Sprigging Intervals

Perennial ryegrass—SC 450 Turf and Ornamental Herbicide may be applied to Bermudagrass up to **1 week** prior to overseeding with perennial ryegrass without a significant reduction in ryegrass stand.

Poa trivialis-- SC 450 Turf and Ornamental Herbicide may be applied to Bermudagrass up to **1 day** prior to overseeding with *Poa trivialis* without a significant reduction in *Poa trivialis* stand.

Seeded Bermudagrass—SC 450 Turf and Ornamental Herbicide may be applied up to **1 week** prior to seeding without a significant reduction in Bermudagrass stand. For newly established stands of Bermudagrass, do not apply SC 450 Turf and Ornamental Herbicide for at least **2 weeks** after emergence since injury may result.

Sprigged Bermudagrass—SC 450 Turf and Ornamental Herbicide should not be applied to sprigged Bermudagrass until **2 weeks after planting.** If sprigs are treated prior to two weeks after planting, a significant reduction in quality may occur.

Seeded Zoysiagrass-- SC 450 Turf and Ornamental Herbicide may be applied to zoysiagrass up to **1 week** prior to seeding without a significant reduction in zoysiagrass stand. For newly established stands of zoysiagrass, do not apply SC 450 Turf and Ornamental Herbicide for at least **3 weeks** after germination since injury may result.

Application

Broadcast:

SC 450 Turf and Ornamental Herbicide may be applied as a single or as multiple applications. Apply 0.021-0.042 fl oz/1,000 sq. ft. of SC 450 Turf and Ornamental Herbicide as a broadcast treatment in a minimum of 25 gallons of water per acre. For weed control in dense weed populations or under adverse growing conditions, higher spray volumes up to 60 gallons per acre are recommended. SC 450 Turf and Ornamental Herbicide provides control of emerged weeds and has limited soil residual. A single application may not exceed 0.042 fl oz/1,000 sq. ft. Sequential applications or residual tank mixtures may be required to control weeds emerging after application. A second application should be made no sooner than 4 weeks after the first application. The total for all applications in a single year may not exceed 0.063 oz./1,000 sq. ft.

Spot treatment:

For spot treatment, mix 0.09 to 0.18 fl. oz of SC 450 Turf and Ornamental Herbicide per gallon of water, depending on the weed and stage of growth. The higher labeled rate (0.18 fl oz/gal) may be necessary for the more difficult-to-control or larger weeds. Spray to wet. Do not apply beyond runoff. For spot treatments, treat no more than 10,000 sq ft per acre. If needed, a second application should be made no sooner than 4 weeks after the first application.

Broadleaf weeds controlled in warm-season turf

Use 0.021- 0.042 fl. oz/1,000 sq. ft. (Broadcast)

Alkali mallow	London rocket
Bedstraw	Mouseear chickweed
Carolina geranium	Nettleleaf goosefoot
Carpetweed	Paleseed plantain
Common chickweed	Parsely-piert
Common vetch	Prostrate knotweed
Corn speedwell	Rabbitfoot clover
Cudweed	Red deadnettle
Cutleaf evening primrose	Silversheath knotweed
Facelis	Shepherdspurse
Florida pusley	Small flowered buttercup
Hairy bittercress	Spotted spurge
Henbit	Spur weed
Hop clover	Texas toad flax
Knawel	Wild mustard
Spotted bur clover	Yellow woodsorrel
White clover	

ORNAMENTALS

General

- SC 450 Turf and Ornamental Herbicide may be applied as a single or as multiple applications to specified ornamentals. For a single application use 0.021-0.042 fl oz/1,000 sq ft A single application may not exceed 0.042 fl. oz./1,000 sq ft. A second application for hard-to-control weeds may be made no sooner than 4 weeks after the first application. The total for all applications in a single year may not exceed 0.063 fl. oz./1,000 sq ft
- Spray when weeds are small and actively growing.
- SC 450 Turf and Ornamental Herbicide should be applied as a directed spray to weeds around ornamentals. Do not allow spray to contact ornamentals.
- Be careful not to spray non target plants in the vicinity of treated turf or ornamental beds including vegetables, flowers, shrubs, trees, ground covers, perennials, and herbs.

Tolerance

The ornamentals listed below are tolerant to SC 450 Turf and Ornamental Herbicide when the herbicide is applied as indicated above. Other ornamentals may be tolerant to SC 450 Turf and Ornamental Herbicide but should be tested before widespread use.

Azalea	Leyland Cypress
Crabapple	Photinia
Crepe myrtle	Rose of Sharon
Hemlock	Rose

Broadleaf and grassy weeds controlled in Ornamentals

Use 0.021-0.042 fl oz/1,000 sq ft (broadcast directed spray)

Black medic	Henbit
Black mustard	Little mallow
Common chickweed	London rocket
Common groundsel	Purple cudweed
Common lambsquarter	Shepherd's purse
Common millet	Velvetleaf
Field madder	Wild lettuce
Hairy fleabane	

Broadleaf and grassy weeds suppressed in Ornamentals

Use 0.021-0.042 fl oz/1,000 sq ft (broadcast directed spray)

Annual bluegrass	Morninglory	Pearl millet
Carolina geranium	Mouseear chickweed	Ripgut bromegrass
Horseweed	Narrowleaf vetch	Sowthistle

Weed Resistance

ALS-resistance exists in some weed species. These biotypes may **not** be controlled by SC 450 Turf and Ornamental Herbicide. Consider using herbicides with other modes of action to control resistant biotypes.

TANK MIXES FOR SC 450 TURF AND ORNAMENTAL HERBICIDE

When using SC 450 Turf and Ornamental Herbicide in tank mix combinations, follow the precautions and directions of the most restrictive label. Test compatibility with other unlisted pesticides prior to use. The following products have been tested for physical compatibility and have shown to be compatible.

Herbicides		**Insecticides**
Atrazine	Ronstar®50 WSP	Sevin®
Finale®	Sedgehammer-®	
Image®*	Sencor®	
Revolver®		

*Note that tank mixtures of SC 450 Turf and Ornamental Herbicide with Image may increase temporary discoloration (yellowing) on Bermudagrass.

Foliar Insecticide Interaction

Foliar applications of an OP insecticide should **not** be made within 7 days of a SC 450 Turf and Ornamental Herbicide application or injury may result.

Fungicides	
26GT®	Lynx®

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Bayer CropScience LP. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE LP MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Bayer CropScience LP is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE LP DISCLAIMS ANY LIABILITY WHATSOEVER FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

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PRODUCED FOR

Bayer Environmental Science

A Business Group of Bayer CropScience LP
P O Box 12014, 2 T. W. Alexander Drive
Research Triangle Park, NC 27709

SC 450 T & O (PENDING) 04/16/07, Resubmitted 05/06/08, Resubmitted 09/25/08

[For Residential (Homeowner) Use]

SC 450 Turf and Ornamental Herbicide

A Herbicide for the Control of Broadleaf Weeds in Warm-season Lawns and around Ornamentals

to be selected from the following list..

- Kills Lawn Weeds in One Step
- Kills Broadleaf Weeds
- Kills Listed Weeds
- Kills Hard-to-Control Weeds
- Systemic [Herbicide] [Activity]
- Kills Clover, plus Other listed Weeds
- Will not harm lawns
- Kills the weed, but won't harm your lawn
- Kills post emergent listed weeds
- Systemic activity kills to the root
- Patented formula
- One quart covers X,000 square feet
- Can be used throughout growing season
- Can be used around listed ornamental flowers and shrubs
- Eliminates weeds around ornamental flowers, trees and shrubs – won't harm the plants
- Treat your whole lawn
- Won't Harm your Lawn (When used as Directed)
- Can be used Around (most)(many)(a wide range of) Flowers, Trees and Shrubs
- Controls the Weed, but Won't Harm the Lawn (when used as directed)
- 100% Satisfaction Guaranteed* (Or Your Money Back)

ACTIVE INGREDIENT:	
THIENCARBAZONE-METHYL*(Methyl 4-[[[(4,5-dihydro-3-methoxy-4-methyl-5-oxo-1H-1,2,4-triazol-1-yl)carbonyl]amino]sulfonyl]-5-methyl-3-thiophenecarboxylate)	19.2
INERT INGREDIENTS:	80.8
TOTAL:	100.00%

*Contains THIENCARBAZONE-METHYL at a concentration of 1.88 pounds of active ingredient per gallon. SC 450 Herbicide also contains 1.88 pounds of the safener Cyprosulfamide per gallon.

Shake well before use.

Net Contents XXX

KEEP OUT OF REACH OF CHILDREN

CAUTION

See back panel for additional precautionary statements

Editorial Note: [Bracketed text] is optional language

(Back Panel)

This product's exclusive (patented) formula kills listed broadleaf weeds – roots and all. And it will not harm your lawn when used as directed. One bottle treats X,000 square feet. Controlling weeds in your lawn (and/or landscaping) has never been easier!

QUICK FACTS	
Editorial Note: *Marketing claims to be selected from the front page*	
KILLS	*Weeds to be selected from weed list*
WHERE TO USE	On Bermudagrass, Zoysiagrass, St. Augustine grass, Centipedegrass, and Seashore paspalum LAWNS without harming lawn grass† † (Do not use on Behiagrass or on cool-season turf types such as Fescue, Bluegrass, Perennial Ryegrasses, or Bentgrass) Around ORNAMENTALS (Rose, Azalea, Rose of Sharon, Photinia, Hemlock, Leyland Cypress, Crepe myrtle, Crabapple)
COVERAGE	This bottle treats X,000 sq ft.
☎ 💻	Questions or comments? Call toll-free **1-877-BayerAG** (1-877-229-3724) **www.BayerAdvanced.com**

FOR OUTDOOR RESIDENTIAL USE ONLY

OPEN Resealable Label for Directions & Precautions, PRESS TO RESEAL

EPA Reg No. 72155-XX **E.P.A. Est. No.XXXX-XX-XXX**

DIRECTIONS FOR USE	
It is a violation of Federal law to use this product in a manner inconsistent with its labeling.	
HOW TO USE Shake Well Before Use	**Prepare only enough spray solution for the job at hand. Use up all of the prepared spray solution, do not store. Do not exceed 0.063 fl oz product/1,000 sq ft per year.** **PUMP-UP TANK SPRAYERS (Best for spot spraying individual weeds)** 1. Add appropriate amounts of water & product to sprayer tank: a. Spot spraying – 0.09 to 0.18 fl oz product in 1 gallon of water. Do not apply more than 0.18 fl oz of product per 1,000 sq ft and treat no more than 10,000 sq ft per acre. b. Large areas – 0.021 to 0.042 fl oz product in 2 gallons of water treats 1,000 sq ft. 2. Close sprayer, shake well & pressurize. Adjust nozzle to a coarse spray & apply evenly, wetting foliage to point of run-off. 3. Occasionally shake & re-pressurize sprayer to maintain a good spray pattern. **DIAL STYLE HOSE-END SPRAYERS (Best for spraying large areas of the lawn)** 1. Add appropriate amounts of water & product to sprayer jar for area to be treated –0.021 to 0.042 fl oz product in 8 fl oz water treats 1,000 sq ft 2. Close sprayer & set at '4 oz' setting. Shake well. 3. Connect to garden hose & apply, wetting foliage to point of run-off. Shake sprayer occasionally to keep contents homogeneous. **CONCENTRATE-PLUS-WATER HOSE-END SPRAYERS (Best for spraying large areas of the lawn)** 1. Pour product into sprayer jar to the required fluid ounce level – 0.021 to 0.042 fl oz product in 2 gallons of water treats 1,000 sq ft 2. Add the appropriate amount of water to the gallons level. 3. Replace sprayer top, shake well and apply, wetting foliage to point of run-off. Shake sprayer occasionally to keep contents homogeneous.

[FOR BEST RESULTS]	**[WHEN TO APPLY]** [Spray when – weeds are small and actively growing – temperature is below 90°F • Do not apply to turf emerging from dormancy or injury may result. • Certain hard-to-kill weeds may require a repeat application after 4 weeks. However, total applications per season must not exceed 0.063 fl oz per 1,000 sq ft] **[SEEDING]** – **[Perennial ryegrass**—SC 450 Turf and Ornamental Herbicide may be applied to Bermudagrass up to **1 week** *prior to overseeding with perennial ryegrass without a significant reduction in* ryegrass stand. – ***Poa trivialis***-- SC 450 Turf and Ornamental Herbicide may be applied to Bermudagrass up to **1 day** prior to overseeding with *Poa trivialis* without a significant reduction in *Poa trivialis* stand. – **Seeded Bermudagrass**—SC 450 Turf and Ornamental Herbicide may be applied up to **1 week** prior to seeding without a significant reduction in Bermudagrass stand. For newly established stands of Bermudagrass, do not apply SC 450 Turf and Ornamental Herbicide for at least **2 weeks** after emergence since injury may result. – **Sprigged Bermudagrass**—SC 450 Turf and Ornamental Herbicide should not be applied to sprigged Bermudagrass until **2 weeks after planting.** If sprigs are treated prior to two weeks after planting, a significant reduction in quality may occur. – **Seeded Zoysiagrass**-- SC 450 Turf and Ornamental Herbicide may be applied to zoysiagrass up to **1 week** prior to seeding without a significant reduction in zoysiagrass stand. For newly established stands of zoysiagrass, do not apply SC 450 Turf and Ornamental Herbicide for at least **3 weeks** after germination since injury may result.] **[MOWING]** • [Do not mow for 1-2 days after spraying to allow full effect on target weeds.] **[WATERING]** • [If lawn is dry, water 1 to 2 days before or within 1 day after using this product. • Rain or watering 2 hours after application will not wash away effectiveness.] **[CLEAN UP]** • [Rinse sprayer twice with 1 fl oz ammonia in 1 gal. water.]
	SC 450 Turf and Ornamental Herbicide contains a patented Bayer herbicide proven to control listed weeds down to the roots without harming the lawn or other desirable plants. This product is absorbed by the weed leaves therefore thorough coverage is important to ensure best control.

KILLS WEEDS
Alkali mallow, annual bluegrass (Poa annua, suppression), Bedstraw, Black medic, Black mustard, Carolina geranium, Carpetweed, Common chickweed, Common groundsel, Common lambsquarters, Common millet, Common vetch, Corn speedwell, Cudweed, Cutleaf evening primrose, Facelis, Field madder, Florida pusley, Hairy bittercress, Hairy fleabane, Henbit, Hop clover, horseweed (suppression), Knawel, Little mallow, London rocket, morninglory (suppression), Mouseear chickweed, Narrowleaf vetch (suppression), Nettleleaf goosefoot, Paleseed plantain, Parsely-piert, pearl millet (suppression), Prostrate knotweed, Purple cudweed, Rabbitfoot clover, Red deadnettle, Ripgut bromegrass (suppression), Silversheath knotweed, Shepherds purse, Small flowered buttercup, Sowthistle (suppression), Spotted bur clover, Spotted spurge, Spur weed, Texas toad flax, Velvetleaf, White clover, Wild lettuce, Wild mustard, Yellow woodsorrel

PRECAUTIONARY STATEMENTS

CAUTION

Hazards to Humans and Domestic Animals

Harmful if swallowed or absorbed through skin

- Causes moderate eye irritation.
- Avoid contact with skin, eyes or clothing.
- Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.
- When using this product, wear long sleeved shirt and long pants, shoes plus socks

After using this product:

- Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.
- Remove and wash contaminated clothing before resue.

	Do not allow people (other than applicator) or pets to enter treatment area during application or until spray has dried.

ENVIRONMENTAL HAZARDS

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 when disposing of equipment washwater or rinsete. Do not drain or rinse equipment near desirable vegetation.

This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. Avoid accidental or intentional application of this product to ditches, swales, drainage ways or impervious surfaces such as driveways. Runoff of this product to surface water will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours.

This chemical has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.

Avoid spray drift from treated areas. Refer to the Spray Drift Management section of this label for additional information.

Non-target plants may be adversely affected if the pesticide is allowed to drift from areas of application. To prevent damage to crops and other desirable plants, read and follow all directions and precautions on this label before using.

FIRST AID

IF SWALLOWED:	• Immediately call a poison control center or doctor for treatment advice. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Have person sip a glass of water if able to swallow. • Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING	• Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 – 20 minutes. • Call a poison control center or doctor for treatment advice.
IF IN EYES:	• Hold eye open and rinse slowly and gently with water for 15-20 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.

NOTE: When calling poison control center, have this product label accessible. If seeking treatment at an emergency room or doctor's office, bring this product label to show medical personnel. **You may call toll-free 1-877-229-3763 for medical emergency information.** Active Ingredients: 19.23% Thiencarbazone-Methyl (CAS# 317815-83-1)

Important – Directions for Storage and Disposal	
Storage Conditions	Store in original container in a cool, dry place, out of the reach of children, preferably a locked storage cabinet.
Disposal	**If empty**: Non-refillable container, do not reuse or refill this container. Place in trash or offer for recycling if available. **If partly filled**: Call your local solid waste agency or toll free 1-877-229-3724 for disposal instructions. Never place unused product down any indoor or outdoor drain.

NOTICE: Research and testing have determined that the "Directions for Use" are appropriate for the proper use of this product under expected conditions. The Buyer assumes responsibility for lack of performance or safety if not used according to the directions

***Money Back Guarantee:** If you are not satisfied with this product, we will gladly refund your original purchase price.

PRODUCED FOR

BAYER ADVANCED

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