

74477-1

2/20/2002

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U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (H75050)  
401 "M" St., S.W.  
Washington, D.C. 20460

EPA Reg. Number:  
74477-1

Date of Issuance:  
FEB 20 2002

NOTICE OF PESTICIDE:  
 Registration  
 Reregistration

Term of Issuance:  
Conditional

Name of Pesticide Product:  
Vegetation Manager  
Metsulfuron Methyl-  
Turf Herbicide

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Vegetation Management, LLC  
4680 Monticello Avenue 181-174  
Williamsburg, VA 23188

**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 section 3(c)(7)(A) provided that you:

1. Submit/cite all data required for registration/reregistration of your product when the Agency requires all registrants of similar products to submit such data.
2. Make the following changes listed below before you release the product for shipment.
  - a. Add the phrase "EPA Registration No. 74477-1."
  - b. Based on the acute toxicology profile of the cited product, the First Aid statements "If Swallowed" or "If Inhaled" may be deleted from your label.
  - c. Add a statement containing a company telephone number or a toll free number as discussed in Section 111 I of PR Notice 2001-1.
  - d. Under Personal Protective Equipment add the following statement.

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

Signature of Approving Official:

Dated:

2-20-2002

e. Under both Personal Protective Equipment and in the Agricultural Use Requirements Box, revise "chemical resistant (Category A) gloves" to read "chemical resistant (Category A) gloves **such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber.**

f. See PR Notice 2001-6 for current disposal statements.

3. Submit three (3) copies of your final printed labeling 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 this product constitutes acceptance of these conditions.

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



### METSULFUURON METHYL TURF HERBICIDE

ACTIVE INGREDIENT  
 METSULFUURON METHYL  
 1,1,1-TRICHLORO-2,2,2-TRIFLUOROETHANE  
 CARBOXYMETHYL-2-NAPHTHOL  
 NET INGREDIENTS 60%  
 TOTAL 100%

EPA REG. NO. 74477 EPA EST. NO. 352-R-1

**KEEP OUT OF REACH OF  
CHILDREN  
CAUTION**

Refer to back panel for additional information

Net Weight: 2 oz.



### METSULFUURON METHYL TURF HERBICIDE

ACTIVE INGREDIENT  
 METSULFUURON METHYL  
 1,1,1-TRICHLORO-2,2,2-TRIFLUOROETHANE  
 CARBOXYMETHYL-2-NAPHTHOL  
 NET INGREDIENTS 60%  
 TOTAL 100%

EPA REG. NO. 74477 EPA EST. NO. 352-R-1

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

**Agricultural Use Requirements**  
 Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to the Label for information about this product. Refer to the Label for information about this product.  
 See Additional Precautionary Statements and Directions for Use in the Detachable label booklet.  
 Notice to Buyer: Purchase of this material does not confer any rights under patents of countries outside of the United States.  
 Notice: Please read the entire label, including the detachable label booklet. Before buying or using this product, read the Limitation of Warranty and Liability in the label booklet. If the terms are not acceptable, return the product at once, unopened for a refund of the purchase price.

Distributed By: Vegetation Management, LLC  
2901-17 Raven Dell - Knoxville, TN 37922  
Made in USA

**ACCEPTED**  
 FEB 20 2002  
 Under the Federal Insecticide,  
 Fungicide, and Rodenticide Act,  
 as amended, for the pesticide  
 registered under  
 EPA Reg. No. 74477-1

METSULFURON METHYL



# METSULFURON METHYL TURF HERBICIDE

TURF HERBICIDE

ACTIVE INGREDIENT:

METSULFURON METHYL

METHYL 2-[[[(4-METHOXY-6-METHYL  
1,3,5-TRIAZIN-2-YL)AMINO]-

CARBONYL]AMINO]SULFONYL]BENZOATE ....60%

INERT INGREDIENTS: .....40%

TOTAL: .....100%

EPA REG. NO. 74477-

EPA EST. NO. 352-IL-1

## KEEP OUT OF REACH OF CHILDREN CAUTION

**Net Weight: 2 oz.**

## First Aid

- 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.

- 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 inhaled:**
- 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 treatment advice.

- If swallowed:**
- 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.

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS:  
CAUTION**

Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Applicators and other handlers must wear: Long-sleeved shirt and long pants; shoes; socks; and chemical resistant (Category A) gloves. 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 STATEMENTS:**

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.

**IMPORTANT:** When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down.

**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.

**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 apply where runoff water may flow during periods of intense rainfall or to water saturated soils,

as off-target movement and injury may occur. Do not contaminate water when disposing of equipment washwaters. Do not apply this product through any type of irrigation system.

### **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. USE STRICTLY IN ACCORDANCE WITH LABEL PRECAUTIONARY STATEMENTS AND DIRECTIONS.**

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.

### **AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Workers 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, decontaminations, 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 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; shoes; socks; and chemical resistant (Category A) gloves.

## 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 treated areas without protective clothing until sprays have dried.

Metsulfuron Methyl Turf Herbicide is for use on ornamental turf, such as lawns, parks, cemeteries, golf courses (fairways, aprons, tees and roughs) and similar non-crop areas. This product may also be used on sod farms.

### Controls the following perennial and annual weedy grasses:

Bahiagrass

Foxtail

Ryegrass

### Controls the following broadleaf (dicot) weeds:

Annual sowthistle	Field pennycress
Aster	Flixweed
Bittercress	Goldenrod
Blue mustard	Henbit
Buckhorn	Hoary cress (whitetop)
Bur buttercup	Kochia
Canada thistle	Lambsquarters
Chicory	Miners lettuce
Clover (white)	Pennsylvania smartweed
Common Chickweed	Plantain
Common groundsel	Prickly lettuce
Common mullein	Prostrate Knotweed
Common purslane	Redroot pigweed
Common sunflower	Redstem filaree
Common yarrow	Shepherdspurse
Conical catchfly	Smallseed flaxweed
Cow cockle	Smooth pigweed
Crown vetch	Spurge (prostrate)
Curly dock	Sweet Clover
Dandelion	Tansy mustard
Dog fennel	Treacle mustard
False chamomile	Tumble mustard



Fiddleneck tarweed  
Wild carrot  
Wild lettuce  
Wild onion

Virginia buttonweed  
Wild celery  
Wild mustard  
Wood sorrel (oxalis)

**For use only on Kentucky Bluegrass, fine Fescue, Bermudagrass and St. Augustine grass turf areas.**

### **USE PRECAUTIONS**

Use lowest rates for minimum chlorosis of the turf.

Do not apply Metsulfuron Methyl Turf Herbicide to turf under stress from drought, insects, disease, cold temperatures, high temperatures of above 85°F on cool season grasses, or poor fertility as injury to turf may result.

Do not apply to turf less than 1 year old.

Do not use on Bahiagrass where it is the desired turf, as severe injury to turf may result.

Do not plant ornamentals such as shrubs and trees in treated areas for at least 1 year after the last application, or bedding plants for at least 2 years.

### **IMPORTANT**

Addition of a nonionic surfactant of at least 80% active ingredient at 0.25 percent by volume (1 qt/100 gal) provides maximum performance, but may temporarily increase chlorosis of the turf.

Allow one week between the application of Metsulfuron Methyl Turf Herbicide and other pesticide products. (This guideline can be relaxed where severe insect or disease attack requires immediate treatment.)

**DO NOT USE ON FOOD OR FEED CROPS.** Injury to or loss of desirable trees or other plants may result from failure to observe the following: Do not apply Metsulfuron Methyl Turf Herbicide (except as recommended) or drain or

flush equipment on or near desirable trees or other plants, or on areas where their roots may extend or in locations where the chemical may be washed or moved into contact with their roots.

When overseeding, wait 2 months (8 weeks) after application. Do not apply to any body of water, including streams, irrigation water or wells. Do not apply where runoff water may flow onto agricultural land, as injury to crops may result.

Do not allow spray drift onto adjacent crops or other desirable plants or trees as injury may occur.

Follow these practices to minimize drift:

- Stop spraying if wind speed becomes excessive. Spray drift can occur at wind speeds less than 10 MPH. If sensitive plants are downwind, extreme caution must be used. Do not spray if winds are gusty.
- High temperatures, drought and low relative humidity increase the possibility of harmful spray drift. Caution must be used when these conditions are present and sensitive plants are nearby.
- Use large droplet size sprays to minimize drift.
- Use spray pressures of 35 psi or less when applying this product.

**HOW TO USE**

Use spray volumes of 20 to 80 gal/acre and pressures of 25 to 35 psi at the following rates of Metsulfuron Methyl Turf Herbicide from the weeds listed below:

**0.125 to 0.25 OZ. PRODUCT/ACRE**

Ryegrass (Greens)

**0.25 TO 0.33 OZ. PRODUCT/ACRE**

Bittercress	Ground ivy (fall)
Blue mustard	Parsley-piert
Bur buttercup	Prostrate spurge
Chickweed	Redstem filaree
Chicory	Spurweed
Clover (white)	Wild carrot
Creeping beggarweed	Dandelion
Field pennycress	

**0.33 to 0.5 OZ. PRODUCT/ACRE**

Annual sowthistle	Ryegrass (fairways)
Aster	Seedling dogfennel
Carolina geranium	Shepherdspurs
Common yarrow	Smooth pigweed
Crown vetch	Smallseed faseflax
Florida betony	Sweet clover
Ground ivy (spring*)	Tansy mustard
Henbit	Treacle mustard
Lambsquarters	Tumble mustard
Lespedeza	Wild celery
Miners lettuce	Wild garlic
Plantain	Wild lettuce
Prickly lettuce	Wild onion
Ragweed	Woodsorrel (oxalis)
Redroot pigweed	

**0.25 to 0.75 OZ. PRODUCT/ACRE**

Bahiagrass\*

**0.5 to 1 OZ. PRODUCT/ACRE**

Brazil pusley	Dogfennel
Buckhorn plantain	Dollarweed*
Canada thistle**	Florida pusley
Curly dock	Foxtail
Common groundsel	Hoary cress (whitetop)
Common purslane	Kochia
Common sunflower	Pennsylvania smartweed
Crabgrass	Plantain
Prostrate knotweed	Sida (southern)
Virginia buttonweed***	Wild mustard

\*A repeat application may be required in 4 to 6 weeks.

\*\*Suppression only involving a visual reduction in competition compared to an untreated area.

\*\*\*Controls seedling Virginia buttonweed. Suppression only of more mature plants. Repeat application may be required in 4 to 6 weeks.

The required amount of Metsulfuron Methyl Turf Herbicide should be added when the spray tank is half full of water; then, with agitator running, add the proper amount of product. Finish adding the required amount of water. Continuous agitation is required to keep the product in suspension.

Spray preparations of this product may degrade in acid solutions if not used in 24 hours; it is stable in alkaline solutions. Thoroughly re-agitate before using.

Tank mixes with other registered herbicides should be tested for compatibility before full scale mixing. Use mechanical or bypass agitation to thoroughly mix the spray suspension. It is not necessary to pre-mix this product with water in a separate container prior to adding it to the spray tank. This product should always be added to the tank first, before any other herbicides or adjuvants.

**Kentucky Bluegrass and Fine Fescue:** Apply 0.25 to 0.5 oz of Metsulfuron Methyl Turf Herbicide per acre for control of the listed weeds. Do not exceed a total of 0.5 oz per acre within a 9-month period.

**St. Augustinegrass, Bermudagrass and Zoysiagrass (Meyers and Emerald):** Apply 0.25 to 1.0 oz of Metsulfuron Methyl Turf Herbicide per acre for weed control. Some chlorosis or stunting of the turfgrass may occur following application.

**Bahiagrass Control:** For the selective control of Bahiagrass in Bermudagrass turf, use 0.25 to 0.75 oz of Metsulfuron Methyl Turf Herbicide per acre. Use the higher rates of the range on Argentine, Common and Paraguayan Bahiagrass. Apply a repeat treatment in 4 to 6 weeks if necessary. Some chlorosis or stunting of the Bermudagrass may occur following the application.

**Centipedegrass:** Apply 0.25 to 0.5 oz. of this product per acre for weed control. Some chlorosis or stunting of the turfgrass may occur following the application.

**IMPORTANT:** Addition of a nonionic surfactant of at least 80% active ingredient at 0.25 percent by volume (1 qt/100 gal) provides maximum performance, but may temporarily increase chlorosis of the turf.

Allow one week between the application of Metsulfuron Methyl Turf Herbicide and other pesticide products. (This guideline can be relaxed where a severe insect or disease attack requires immediate treatment.)

### RECOMMENDED SPRAYER CLEANUP

Immediately after spraying, thoroughly remove all traces of Metsulfuron Methyl Turf Herbicide from mixing and spray equipment as follows:

- 1) Drain tank, rinse interior surface of tank, then flush tank, boom and hoses with clean water for a minimum of 5 minutes.
- 2) Fill the tank with clean water, then add an ammonia cleaning solution. Use one gallon ammonia (containing 3% active) per 100 gallons of water. Turn on sprayer long enough to flush through boom, hoses and nozzles. Stop spraying, but keep agitator working in the tank for 15 minutes, then drain.
- 3) Repeat Step 2.
- 4) Repeat Step 1.
- 5) Nozzles and screens should then be removed and cleaned separately. To remove traces of cleaning solution, rinse the tank thoroughly with clean water and flush through hoses and boom.
- 6) Flush boom and hoses with clean water for 5 minutes just prior to using the sprayer for the first time after the Metsulfuron Methyl Turf Herbicide application.

### STORAGE AND DISPOSAL

**STORAGE:** Always use original container to store pesticides in a secured warehouse or storage building. Do not store near open containers of fertilizers, seeds, or other pesticides. Do not contaminate water, food or feed by storage or disposal.

**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:** Triple rinse (or equivalent), adding rinsate to spray tank. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, by incineration, or by burning, if allowed by State and local authorities. If burned, stay out of smoke.

### NOTICE OF WARRANTY

**IMPORTANT:** Read the information below before using this product. If the terms are not acceptable, you should return the unopened product container immediately for a complete refund.

#### LIMITED WARRANTY, TERMS OF SALE, AND LIMITATION OF LIABILITY

Upon purchase or use of this product, purchaser and user agree to the following terms:

**Warranty:** Vegetation Management, LLC (the Company) warrants that this product conforms to the chemical description on the label in all material respects and is reasonably fit for the purpose referred to in the directions for use, subject to the exceptions noted below, which are beyond the Company's control. The Company makes no other representation or warranty, express or implied, concerning the product, including no implied warranty of merchantability or fitness for a particular purpose; no such warranty shall be implied by law, and no agent or representative is authorized to make any such warranty on the Company's behalf.

**Terms of Sale:** The Company's directions for use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, and the manner of use or application (including failure to adhere to label directions), all of which are beyond the Company's control. All such risks are assumed by the user. Sale of this product is governed by the internal laws of the state of Tennessee; any action with respect to this product shall be brought exclusively in the state or federal courts located in Tennessee.

**Limitation of Liability:** The exclusive remedy against the Company for any cause of action relating to the handling or use of this product is a claim for damages, and in no event shall damages or any other recovery of any kind exceed the price of the product which caused the alleged loss, damage, injury or other claim. Under no circumstances shall the Company be liable for any special, indirect, incidental or consequential damages of any kind, including loss of profits or income, and any such claims are hereby waived. Some states do not allow the exclusion or limitation of incidental or consequential damages.

The Company and the seller offer this product, and the purchaser and user accept this product, subject to the foregoing warranty, terms of sale and limitation of liability, which may be varied or modified only by an agreement in writing signed on behalf of the Company by an authorized representative.

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Vegetation Management  
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Knoxville, TN 37922

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