

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Richard C. Dirks
Monsanto Company
Suite 1100
700 14th Street, N.W.
Washington, D.C. 20005

FEB 28 1995

Dear Mr. Dirks:

Subject: Revised Labeling - Add Use on Turf
Permit Herbicide
EPA Registration No. 524-465
Your Submission Dated December 21, 1994

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable with the following provisions:

1) We acknowledge that split labels will be used for this product to separate the turf uses from the agricultural uses. Please note that only draft labeling for uses on turf (under the alternate brand name "Manage Herbicide") was included with this application and is stamped for your records. Therefore, the labeling for agricultural uses (under the official product name "Permit Herbicide") must appear as accepted by the Agency on December 15, 1994.

2) The precautionary language for this labeling must be consistent with the precautionary language previously accepted for this product. Therefore, revise the second sentence of the Precautionary Statements to read "Harmful if swallowed." In addition, delete the phrase "...if irritation persists" from the end of the "IF IN EYES" statement.

3) The second paragraph currently appearing in the Agricultural Use Requirements box and beginning "Do not apply this product in a way that will contact..." should be relocated so that it applies to all uses. It belongs immediately preceding the Agricultural Use Requirements box.

DR: 305-7546: FHB/ M23		CONCURRENCES					
SYMBOL	7505C						
SURNAME	D. KENNY						
DATE	2/27/95						

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

A stamped copy is enclosed for your records. Please submit one (1) final printed copy for the referenced label, incorporating the above changes, before releasing the product for shipment.

Sincerely yours,

Joanne I. Miller
Product Manager (23)
Fungicide-Herbicide Branch
Registration Division (7505C)

Enclosure

CONCURRENCES

SYMBOL							
SURNAME							
DATE							

Manage is a selective herbicide for the control of nutsedge and other weeds in turfgrass.

***Manage is a registered trademark of Monsanto Company.**

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A-000.01

Read the entire label before using this product.

Use only according to label instructions.

Read "LIMIT OF WARRANTY AND LIABILITY" before buying or using. If terms are not acceptable, return at once unopened.

REFORMULATION OR REPACKAGING IS PROHIBITED.

LIMIT OF WARRANTY AND LIABILITY

This Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes set forth in the Complete Directions for Use label pamphlet (''Directions'') when used in accordance with those Directions under the conditions described therein. NO OTHER EXPRESS WARRANTY OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY IS MADE. This warranty is also subject to the conditions and limitations stated herein.

Buyer and all users shall promptly notify this Company of any claims whether based in contract, negligence, strict liability, other tort or otherwise.

Buyer and all users are responsible for all loss or damage from use or handling which results from conditions beyond the control of this Company, including, but not limited to, incompatibility with products other than those set forth in the Directions, application to or contact with desirable vegetation, unusual weather, weather conditions which are outside the range considered normal at the application site and for the time period when the product is applied, as well as weather conditions which are outside the application ranges set forth in the Directions, application in any manner not explicitly set forth in the Directions, moisture conditions outside the moisture range specified in the Directions, or the presence of products other than those set forth in the Directions in or on the soil, crop or treated vegetation.

THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE LIMIT OF THE LIABILITY OF THIS COMPANY OR ANY OTHER SELLER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT (INCLUDING CLAIMS BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT OR OTHERWISE) SHALL BE THE PURCHASE PRICE PAID BY THE USER OR BUYER FOR THE QUANTITY OF THIS PRODUCT INVOLVED, OR, AT THE ELECTION OF THIS COMPANY OR ANY OTHER SELLER, THE REPLACEMENT OF SUCH QUANTITY, OR, IF NOT ACQUIRED BY PURCHASE, REPLACEMENT OF SUCH QUANTITY. IN NO EVENT SHALL THIS COMPANY OR ANY OTHER SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES.

Buyer and all users are deemed to have accepted the terms of this LIMIT OF WARRANTY AND LIABILITY which may not be varied by any verbal or written agreement.

PRECAUTIONARY STATEMENTS

Hazards to Humans
and Domestic Animals

Keep out of reach of children.

CAUTION!

CAUSES EYE IRRITATION.

HARMFUL IF SWALLOWED OR INHALED.

Avoid contact with eyes or clothing.

First Aid: IF IN EYES, immediately flush with plenty of water. Get medical attention if irritation persists.

IF SWALLOWED, remove visible particles from mouth and rinse thoroughly with water. Swallow water to dilute. Get medical attention. **NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.**

Personal Protective Equipment (PPE)

Applicators and other handlers must wear long-sleeved shirt and long pants and shoes plus socks. 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.

When handlers use closed systems or enclosed cabs 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.

<p>User Safety Recommendations:</p> <p>Users should:</p> <ul style="list-style-type: none"> * 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.
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In case of emergency involving this product,
Call Collect, day or night, (314) 694-4000.

Environmental Hazards

Do not apply directly to water, 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 washwaters.

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DIRECTIONS FOR USE

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

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 Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not 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.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls, waterproof gloves and shoes plus socks.

For more product information, call toll-free 1-800-332-3111.

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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 people off treated areas until spray solution has dried.

Storage and Disposal

Do not contaminate water, foodstuffs, feed or seed by storage or disposal.

STORAGE: Store under cool, dry conditions (below 120° F). Do not store under moist conditions.

DISPOSAL: Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state or local procedures.

Emptied container retains vapor and product residue. Observe all labeled safeguards until container is destroyed.

Do not reuse container. Triple rinse container, then puncture and dispose 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

Manage® is a selective turf herbicide for postemergence control of sedges such as purple and yellow nutsedge in established lawns and ornamental turfgrass. Manage may be applied on commercial and residential turf and other non-crop sites including: airports, cemeteries, golf courses, landscaped areas, public recreation areas, residential property, roadsides, school grounds, sod or turf seed farms, and sports fields. This product is harmless to nearby established ornamentals, trees and shrubs when used according to label directions.

TURFGRASSES

When applied as directed under the conditions described, the following established turfgrasses are tolerant to this product:

Cool-Season Grasses

Bentgrass, creeping
Agrostis stolonifera

Fescue, fine
Festuca rubra

Bluegrass, Kentucky
Poa pratensis

Fescue, tall
Festuca arundinacea

Ryegrass, perennial
Lolium perenne

Warm-Season Grasses

Bermudagrass
Cynodon dactylon

St. Augustinegrass
Stenotaphrum secundatum

Centipedegrass
Eremochloa ophiuroides

Zoysiagrass
Zoysia japonica

Bahiagrass
Paspalum notatum

WEEDS CONTROLLED

When applied postemergence, this product will control the following weeds:

Purple nutsedge
Cyperus rotundus

Yellow nutsedge
Cyperus esculentus

When applied postemergence, this product will suppress the following weed:

Kyllinga, green
Kyllinga brevifolia

APPLICATION DIRECTIONS
Rates and Timing of Application

Broadcast Applications:

For postemergence control of purple or yellow nutsedge found in established turfgrass, apply 2/3 to 1 1/3 ounces by weight of this product per acre (0.031 to 0.062 pounds active ingredient per acre) after nutsedge has reached the 3 to 8 leaf stage of growth. Use the lower rate in light infestations and the higher rate in heavy infestations.

A second treatment may be required 6 to 10 weeks after the initial treatment. As a sequential treatment, when new purple or yellow nutsedge plants have reached the 3 to 8 leaf stage of growth, apply 2/3 to 1 1/3 ounces by weight of this product per acre (0.031 to 0.062 pounds active ingredient per acre). Use the lower rate in light infestations and the higher rate in heavy infestations. No more than 2 applications can be made with the total use rate not exceeding 0.125 pounds active ingredient per acre per use season.

Use 0.5 percent nonionic surfactant concentration (2 quarts per 100 gallons of spray solution) for broadcast applications. DO NOT exceed 1 to 2 pints of surfactant per acre. Use only nonionic surfactants which contain at least 80 percent active material.

Spot Treatments:

Mix 0.9 grams of Manage (using the measuring scoop provided) plus 2 teaspoons (1/3 fluid ounce) of nonionic surfactant in one gallon of water to treat 1,000 square feet of established turfgrass. Ensure Manage is measured as a level scoop and not rounded.

DO NOT exceed the recommended amount of surfactant due to the potential for turf injury at higher rates.

Spray the target weeds thoroughly and wet the entire leaf surface of the undesirable plants.

Refer to the surfactant label and observe all precautions, mixing and application instructions.

APPLICATION EQUIPMENT AND INSTRUCTIONS

Calibrate application equipment prior to application of this product. Application should be uniform and of sufficient volume to avoid streaking or skips. Avoid excessive overlap of the spray.

USE PRECAUTIONS

For optimum results, do not mow turf for 2 days before or 2 days after application.

This product is effective if no rainfall occurs within 3 hours, but best results are obtained with no rainfall or irrigation for at least 8 hours.

This product may be used on seeded, sodded, or sprigged turfgrass that is well established. Allow the turf to develop a good root system and uniform stand before application.

Avoid application of Manage when turfgrass or nutsedge is under stress since turf injury and poor nutsedge control may result.

Do not apply as an over-the-top spray to desirable flowers, vegetables, shrubs or trees.

Do not apply this product to golf course putting greens.

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

Do not use clippings from treated turf for mulching around vegetables or ornamentals.

ACTIVE INGREDIENT:

* Methyl 5-[[[4,6-dimethoxy-2-pyrimidinyl)amino] carbonylamino]sulfonyl]-3-chloro-1-methyl-1-H-pyrazole-4-carboxylate	75.0%
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INERT INGREDIENTS:	25.0%
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100.0%

* Manufactured by Nissan Chemical Industries, Ltd.

Product is protected by U.S. Patent No. 4,668,277.

®Manage is a registered trademark of Monsanto Company.

In case of emergency involving this product,
Call Collect, day or night, (314) 694-4000.

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MONSANTO COMPANY
AGRICULTURAL PRODUCTS
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