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	U.S. UNVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (7505C) 4CL "M" St., S.W.	ЕРА Reg. Number: 524-468	Date of Issuan B DEC 151	11	
STZ -	Washington, D.C. 20460		Term of Issuance: Conditional;		
NJ	FIC OF PESTICIDE: .x cogistration .x Reregistration	ł	Expires:		
(under /IFRA, a: _ sende:			Name of Pesticide Product: Manage Herbicide		
Nonsant J Comp 700 14th Stree Mashington, J.	t, 7.W., Suite 1100 C. 20005				
be sub ted to and accordent fance on this p	ng d_fering in substance from that accept spte: by the Registration Division prior product alw _= refer to the above EPA registrant, the above for the second state of the registrant, the above for the registrant, the second state of the registrant state of t	to use of the label in istration number.	n comperce. In any		
. order to protect heat cancel the registration with the sgistratic exclusive use of the r	ay to construct as an endorsement or r lth - the environment, the Administrate of pesticide n accordance with the Ad- . a product unde this Act is not to be of le or to its use if it has been covered b 	or, on his motion, may t. The acceptance of construed as giving the by others.	at any time suspend any name in connecti e registrant a right	or on to	
1. Submi unconditional)(7)(A) provided that yo t data required to chang FIFRA sec. 3(c)(5) regis item #2 through 7.	e this regist		a	
Guideline Seri	t acceptable aquatic pla es 123-2. We acknowledg nt have been submitted a	e that studie	s to fulfill		
studies to ful	t acceptable aquatic org fill Guideline Series 72 ater than March 15, 1996	-4. These st		Э	
prospective gr must be submit protocol is ac (2) years of t Agency review	t an acceptable protocol coundwater monitoring stu ted no later than Februa cepted by the Agency, th the date of such acceptan dated September 16, 1994 dwater data for details	dy (§166-1). ry 1, 1995. e study is du ce. Please r regarding th	The protoco Once the le within two refer to the le environment	tal	
Signature of Approving	Official:	Date;	DEC 1 5 1994		

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page 2 EPA Reg. No. 524-468

5. Submit an acceptable analytical method for detection of residues in meat and meat by-products. We acknowledge that methods to fulfill this requirement has been submitted and are currently pending Agency validation.

6. Submit the following toxicology studies performed on the metabolite 3-chlorosulfonamide acid:

- a. 90-Day feeding study in the rat (§82-1). This study must be submitted no later than March 15, 1996.
- b. Developmental toxicity in the rat [\$83-3(a)]. This study must be submitted no later than March 15, 1996.
- c. The three standard mutagenicity studies [84-2(a), 84-2(b), and 84-4]. These studies must be submitted no later than December 15, 1995.

7. Literature search and telephone survey with state and federal field agents and other sources (i.e., Nature Conservancy and Universities) to identify locations of selected endangered plants relative to sorghum/turf sites to be determined by the Environmental Fate and Effects Division. We note that corn and potato surveys are being performed by other registrants and that Monsanto is only responsible for the sorghum/turf surveys. This information is due to the Agency by January 31, 1996. The elements listed below are to be followed for this investigation:

- a. In general, Monsanto will seek to obtain the most specific information available as to where endangered plants are located relative to the use sites and provide as much descriptive information regarding the location of sorghum/turf use and endancered wetland plant sites (i.e., sorghum or turf field located "X" miles from "XX" Road, and endangered wetland plant located 1/2 mile north of Highway "XXX").
- b. Monsanto will contact the Agency before initiating this investigation and provide quarterly interim reports.
- c. Monsanto will identify and call experts that are knowledgeable about specific locations of endangered plant species. Experts are expected to inform Monsanto as to the likelihood of endangered plants being located in a certain county.
- d. If a particular endangered plant has been seen or found in a particular county, Monsanto will probe further until the specific location of the plant is determined.

page 3 UNITED STATES ENVIRONMENTAL PROTECTION AGENCY EPA Reg. No. 524-468

- e. Information, such as if the endangered plant is located up or downstream from a use site, should be provided. If a plant is upstream from the use site and falls within the distance of concern (i.e., half a mile from the field), then the Agency may conclude that a "may affect" does not exist in this situation.
- f. Monsanto will promptly notify the agency if an endangered plant is found very near a sorghum or turf field.

8. Make the following label changes before you release the product for shipment:

- a. Revise the EPA Registration Number to read, "EPA Reg. No. 524-468".
- b. Add the restriction "Do not apply by air."
- c. Please note that the groundwater advisory, currently appearing as the second paragraph of the Environmental Hazards seciton, may be removed from the labeling.
- d. Rewrite the inhalation statement within the Statement of Practical Treatment to read "IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention."

9. Submit one copy of the revised final printed label for the record before you release this 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 the product constitutes acceptance of these conditions.

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

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

Enclosure

DK:	305-754	6:FHB/	PM23	CONCURRENCES		
SYMBOL	7505C					
SURNAME	D. KENNY				, • • • • • • • • • • • • • • • • • • •	
DATE	12/15/14			[••••••••••	
EPA Form	1320-1A (1/90)		· · · · · · · · · · · · · · · · · · ·	Printed on Recycled Paper		OFFICIAL FILE COPY

10 5 GPO 1001-522-503927085

FUHD

ACCEPTED with COMMENTS In EPA Letter Dated

DEC 1 5 1994

Under the Federal Insecticide, Fundicide, and Rodeminide Act as an another, for the posticide registered under EPA Reg. No. 524 - 468

Read the entire label before using this product. Use only according to label instructions. Read "LIMIT OF WARRANTY AND LIABILITY", which appears in the label booklet, before buying or using. If terms are not acceptable, return at once unopened. REFORMULATION OR REPACKAGING IS PROHIBITED

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 Avoid breathing dust.

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. IF INHALED, remove individual to fresh air. Seek medical attention if breathing difficulty develops.

Personal Protective Equipment (PPE) Applicators and other handlers must wear long-sleeved shirt and long parits and shoes plus socks. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water: L'eep and wash PPE separately from other laundry.

When handlers use closed systems or enclosed cabs in a mariner that meets the requirements disted 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

Manage®

TURF HERBICIDE BY MONSANTO

Water Soluble Powder Premeasured in a Water Soluble Bag Manage is a selective herbicide for the control of nutsedge and other weeds in turfgrass.

> User Safe^{**} Recommendations: User Should. • Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove clothing immediately if pesticide gets inside.
Then wash thoroughtly and put on clean clothing.

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.

This chemical demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination. 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. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

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.

For more product information 3111.

Storage and

Do not contaminate water, for storage or disposal.

STORAGE: Store under cod 120°F). Do not store under m

DISPOSAL: Wastes resultin product that cannot be used should be disposed of in a la pesticide disposal or in acco Federal, state or local proces

Emptied foil pouch and card product residue. Observe all containers are destroyed. Do box.

Completely use water solubl equipment. Then dispose of cardboard box in a sanitary or, if allowed by state and lo if burned, stay out of smoke

(See label booklet for Compl

ACTIVE INGREDIENT:

 Methyl 5-{[(4,6-dimethoxycarbonylaminosulfonyl}-3pyrazole-4-carboxylate ...
INERT INGREDIENTS:

* Manufactured by Nissan C

EPA Reg. No. 524-UAI Product is protected by U.S. @ Manage is a registered tra Company.

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Regiscered clademark of honsanco company

WATER SOLUBLE POWDER PREMEASURED IN A WATER SOLUBLE BAG

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

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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. Notice of these claims may be made by calling 1-800-332-3111.

60412

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 upplication 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.

CAUTIONI

CAUSES EYE IRRITATION. HARMFUL IF SWALLOWED OR INHALED. Avoid contact with eyes or clothing. Avoid breathing dust. 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. IF INHALED, remove individual to fresh air. Seek medical attention if breathing difficulty develops. , 2412

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.

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.

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. This chemical demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

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, fores's, 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: coverails, waterproof gloves and shoes plus socks.

NON-AGRICULTURAL USE REQUIREMENTS

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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.

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

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.

Keep outer foil pouch TIGHTLY sealed to prevent moisture from damaging any unused water soluble bags.

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 foil pouch and cardboard box retain vapor and product residue. Observe all labeled safeguards until containers are destroyed. Do not reuse foil pouch or box.

Completely use water soluble bags in application equipment. Then dispose of empty foil pouch and cardboard box in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burnec, 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 109412

Ryegrass, perennial Lolium perenne

Warm-Season Grasses

Bermudagrass Cynodon dactylon St. Augustinegrass Stenotaphrum secundatum

Centipedegrass Eremochloa ophiuroides

Zoysiagrass Zoysia japonica

Bal.1agrass Paspalum notatum

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

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:

112+12

Kyllinga, green Kyllinga brevifolia

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APPLICATION DIRECTIONS Rates and Timing of Application

For postemergence control of purple or yellow nutsedge found in established turfgrass, apply 1 to 2 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 1 to 2 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.

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

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. Amplication 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.

Allow three (3) hours after application before irrigating:

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

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

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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.

ACTIVE INGREDIENT:

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<pre>* Methyl 5-{[(4,6-dimethoxy-2-pyrimidinyl)amino] carbonylaminosulfonyl}-3-chloro-1-methyl-1-H-</pre>										
pyrazole-4-carboxylate	50.0%									
INERT INGREDIENTS:	50.0%									

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.

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MONSANTO COMPANY AGRICULTURAL PRODUCTS ST. LOUIS, MISSOURI 63167 U.S.A.