
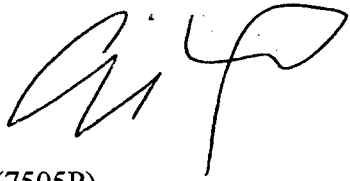


71368-96

12/24/2009

1/19

| | | |
|--|---|-------------------------------|
|  <p style="text-align: center;">U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (7505P) Ariel Rios Building 1200 Pennsylvania Ave., NW Washington, D.C. 20460</p> | EPA Reg. Number: 71368-96 | Date of Issuance: 12-24-09 |
| | Term of Issuance: Unconditional | |
| | Name of Pesticide Product: NUP-08111 Herbicide | |
| <p>NOTICE OF PESTICIDE:</p> <p><input checked="" type="checkbox"/> Registration <input type="checkbox"/> Reregistration (under FIFRA, as amended)</p> | | |
| <p>Name and Address of Registrant (include ZIP Code):</p> <p>Nufarm Inc. 150 Harvester Drive Burr Ridge, IL 60527</p> | | |
| <p>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.</p> | | |
| <p>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.</p> | | |
| <p>This product is unconditionally registered in accordance with FIFRA sec. 3(c)(5) provided that you:</p> <ol style="list-style-type: none"> 1. Submit and/or cite all data required for registration review/reregistration of your product when the Agency requires all registrants of similar products to submit data. 2. Submit the outstanding data guidelines 830.6317 (storage stability) and 830.6320 (corrosion characteristics) within one year from the date on this Notice. 3. Make the following label changes: <ol style="list-style-type: none"> a. Revise the EPA Registration Number from 71368-OA to 71368-96 b. Add an appropriate EPA Establishment Number to the label. c. Add appropriate Net Contents information to the label d. On page 8, revise "1 to 3 ounces" to "1 to 2.6 ounces" in the 4th bullet e. On page 10, revise "range" to "rangeland" f. On page 13, revise "Use the higher rate" to "Use the higher specified rate" in the section Non-Crop Sites. g. On page 14, revise "If equipment is drained or flushed" to "Do not drain or flush equipment" in the 2nd, 3rd, and 4th bullets of the RESTRICTIONS section. Remove "Injury or loss of desirable trees or other plants may result from the following" h. On page 16, add "Do not contaminate water, food, or feed by storage or disposal" after the heading STORAGE AND DISPOSAL, but prior to the subsection Pesticide Storage. | | |
| <p>Signature of Approving Official:</p> <p>Jim Tompkins Product Manager 25 Herbicide Branch Registration Division (7505P)</p>  | <p>Date: 12-24-09</p> | |

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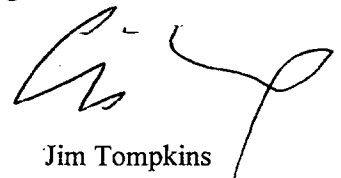
12-24-09

- i. On page 16, in the "For Plastic Containers" statements, revise "Triple rinse (or equivalent)" to "Triple rinse container (or equivalent) promptly after emptying." Add the following: "Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 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."
- j. On page 16, in the "For Containers up to 250 gal" statements, add the following:
 - a. "Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller."
 - b. "Triple rinse as follows: Empty remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times."
 - c. "Do not reuse this container for any other purpose"
- k. On page 17, remove the repetitive section Container Refilling and Disposal (for Containers up to 250 gal)
- l. On page 17, in the "Container Disposal for Bulk Container" statements", add the following:
 - a. "Refillable Container."
 - b. "Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller."
 - c. "Triple rinse as follows: Empty remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times."

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.

The basic formulation CSF [dated 7/10/2009] of the product referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act is acceptable. The basic CSF will be added to your file.



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

3/19

NUP-08111 HERBICIDE

Dry Flowable

ACTIVE INGREDIENT:

Chlorsulfuron: 2-Chloro-N-[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)aminocarbonyl] benzenesulfonamide 75.00%

OTHER INGREDIENTS: 25.00%

TOTAL:100.00%

KEEP OUT OF REACH OF CHILDREN
CAUTION – PRECAUCION
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.)
SEE INSIDE BOOKLET FOR FIRST AID AND ADDITIONAL PRECAUTIONARY STATEMENTS

For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300
For Medical Emergencies Only, Call (877) 325-1840

ACCEPTED
with COMMENTS
in EPA Letter Dated

DEC 24 2009

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

71368-96

Product of China

EPA REG. NO. 71368-OA
EPA EST. NO.

NET CONTENTS:

071368-000OA.20091210.EPA.NEW

MANUFACTURED FOR
NUFARM INC.
150 HARVESTER DRIVE
BURR RIDGE, IL 60527



4/19

**PRECAUTIONARY STATEMENT
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION/PRECAUCION**

Harmful if swallowed. Causes moderate eye irritation.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Some of the 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.

Mixers, loaders, applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride.
- Shoes plus socks.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exists, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Control Statement:

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 part 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: | |
| <ul style="list-style-type: none"> • Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. • Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. • 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. | |

| FIRST AID | |
|---|--|
| IF SWALLOWED | <ul style="list-style-type: none"> • 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 a poison control center or doctor. • Do not give anything by mouth to an unconscious person. |
| IF IN EYES | <ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for further treatment advice. |
| HOT LINE NUMBER | |
| Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-325-1840 for emergency medical treatment information. | |

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 cleaning equipment or disposing of equipment washwaters or rinsate.

DIRECTIONS FOR USE

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

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.

This product must be used only in accordance with directions on this label or in separate Nufarm published directions.

To the extent consistent with applicable law Nufarm will not be responsible for losses or damages resulting from the use of this product in any manner not specified on this label by Nufarm.

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

USE INFORMATION

This product is a dry flowable that is mixed in water and applied as a spray.

This product may be used in the control of annual, biennial, and perennial weeds on private, public and military lands, on rights-of-way, industrial sites, non-crop areas, fence rows, ditch banks of dry drainage ditches, pasture, rangelands and Conservation Reserve Program (CRP) lands, including grazed areas on these sites. Do not use on irrigation ditches.

This product is noncorrosive, nonflammable, nonvolatile and does not freeze.

This product can be applied as a preemergence or postemergence treatment. For best annual weed control, apply this product during early stages of weed growth. The degree and duration of control may depend on the following:

- specified use rate
- weed spectrum and size at application
- environmental conditions at and following treatment.

For control of perennial weeds with this product alone, best results are obtained when weeds are treated in the bud to bloom or fall rosette stage.

This product may be applied on pasture, range, CRP and non-crop sites that contain areas of temporary surface water caused by the collection of water between planting beds, in equipment ruts, or in other depressions created by management activities. It is permissible to treat intermittent drainage, intermittently flooded low lying sites, seasonably dry flood plains and transitional areas between upland and lowland sites when no water is present. It is also permissible to treat marshes, swamps and bogs after water has receded as well as seasonably dry flood deltas. DO NOT make applications to natural or man-made bodies of water such as lakes, reservoirs, ponds, streams and canals.

TANK MIXES

Unless otherwise prohibited on this label or the label of an intended tank mix product, this product may be applied in combination with any pesticide registered for the same crop, timing, and method of application. Observe the most restrictive label statements of various tank mix products used.

IMPORTANT: PESTICIDE TANK MIXES MAY INCREASE THE RISK OF MIXING INCOMPATIBILITIES, REDUCED EFFECTIVENESS AND/OR CAUSE CROP INJURY OR LOSS. ANY LIABILITY FOR LOSS, INJURY OR DAMAGE RESULTING FROM A TANK MIXTURE NOT SPECIFIED ON THIS LABEL OR IN MANUFACTURER'S SUPPLEMENTAL LABELING DISTRIBUTED FOR THIS PRODUCT IS SPECIFICALLY DISCLAIMED BY MANUFACTURER.

COMPATIBILITY

Before full-scale mixing of this product with other pesticides, fertilizers, secondary plant nutrients, adjuvants, surfactants or oils, you must determine the compatibility of the proposed mixture. Use proportionate quantities of each ingredient and mix in a small container. Always mix one product thoroughly with the diluent before adding another product. If no incompatibility is evident after 30 minutes, the mixture is generally compatible for spraying. To evaluate potential short term effects of applying the mixture, test the tank mix combination on a few plants or a small area before larger-scale treatments. Wait at least 2 to 3 days for problems to become apparent.

IMPORTANT: MIXING WITH OTHER SUBSTANCES MAY INCREASE THE RISK OF MIXING INCOMPATIBILITIES, REDUCED EFFECTIVENESS AND/OR CAUSE CROP INJURY OR LOSS. ANY LIABILITY FOR LOSS, INJURY OR DAMAGE RESULTING FROM A MIXTURE NOT SPECIFIED ON THIS LABEL OR IN MANUFACTURER'S SUPPLEMENTAL LABELING DISTRIBUTED FOR THIS PRODUCT IS SPECIFICALLY DISCLAIMED BY MANUFACTURER.

SPRAY ADJUVANTS

To improve postemergence weed control, a high quality spray adjuvant should be added at the manufacturer's recommended use rate. Do not use LI-700 or any non-acidifying spray adjuvants with this product.

GRAZING/HAYING

There are no grazing or hay harvest restrictions for any livestock, including lactating animals, with application rates up to 1-1/3 ounces per acre of this product. No enclosure is required for any animals.

ENVIRONMENTAL CONDITIONS AND BIOLOGICAL ACTIVITY

This product is absorbed by both the roots and foliage of plants, rapidly inhibiting the growth of susceptible weeds. Two to three weeks after application to weeds, leaf growth slows and the growing points turn reddish-purple. Within 4 to 6 weeks of application, leaf veins and leaves become discolored, and the growing points subsequently die.

Warm, moist conditions following treatment enhance the effectiveness of this product since moisture carries this product into weed roots, preventing roots from developing. Cold, dry conditions delay the activity of this product. Weeds hardened off by cold weather or drought stress are less susceptible to this product.

Grasses that are stressed from adverse environmental conditions (such as extreme temperatures or moisture), abnormal soil conditions, or cultural practices may be injured by applications of this product. In addition, different species of grass may be

sensitive to treatment with this product under otherwise normal conditions. Application of this product to these species may result in injury.

RESISTANCE

When herbicides that affect the same biological site of action are used repeatedly over several years to control the same weed species in the same field, naturally-occurring resistant biotypes may survive a correctly applied herbicide treatment, propagate, and become dominant in that field. Adequate control of these resistant weed biotypes cannot be expected. If weed control is unsatisfactory, it may be necessary to retreat the problem area using a product affecting a different site of action.

To better manage herbicide resistance through delaying the proliferation and possible dominance of herbicide resistant weed biotypes, it may be necessary to change cultural practices within and between crop seasons such as using a combination of tillage, retreatment, tank-mix partners and/or sequential herbicide applications that have a different site of action. Weed escapes that are allowed to go to seed will promote the spread of resistant biotypes.

It is advisable to keep accurate records of pesticides applied to individual fields to help obtain information on the spread and dispersal of resistant biotypes. Consult your agricultural dealer, consultant, applicator, and/or appropriate state agricultural extension service representative for specific alternative cultural practices or herbicide recommendations available in your area.

INTEGRATED PEST MANAGEMENT

This product may be used as part of an Integrated Pest Management (IPM) program that can include biological, cultural, and genetic practices aimed at preventing economic pest damage. IPM principles and practices include field scouting or other detection methods, correct target pest identification, population monitoring, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop systems in your area.

AGRICULTURAL USES

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 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.
- Chemical resistant gloves made of any water proof material.
- Shoes plus socks.

PASTURE, RANGELANDS, CONSERVATION RESERVE PROGRAM (CRP) SITES

Application Information

This product may be used for the control and suppression of weeds in permanent (non-rotational) pastures, range and CRP lands when applied according to the directions and under the conditions specified on this label. Best results are obtained when perennial weeds are treated in the bud to bloom stage or the fall rosette. Annual weeds are controlled best when treated early in their growth cycles.

Treatments may be applied by any ground equipment or by fixed wing aircraft or by helicopter.

There are no grazing or hay harvest restrictions for any livestock, including lactating animals, with application rates up to 1-1/3 ounces per acre of this product. No enclosure is required for any animals. Do not apply more than 1-1/3 ounces of this product (1 oz ai) per acre per year for pasture, rangelands and CRP uses.

Application Rates

This product may be applied on the following forage grasses at the use rates shown below:

1/4 to 1 ounce per acre

| | |
|---|---------------------------|
| Bahiagrass | <i>Paspalum notatum</i> |
| Bermudagrass | <i>Cynodon dactylon</i> |
| Blue gramma | <i>Bouteloua gracilis</i> |
| Bluegrass | <i>Poa spp.</i> |
| Bromegrass (meadow, smooth) | <i>Bromus spp</i> |
| Orchardgrass** | <i>Dactylis glomerata</i> |
| Wheatgrasses (crested, intermediate, pubescent, slender, streambank, tall, thick, spike, western) | <i>Agropyron spp.</i> |

1/4 to 1/2 ounce per acre

| | |
|--|-------------------------------|
| Bluestems (big, little, plains, sand, ww spar) | <i>Andropogon spp.</i> |
| Buffalograss | <i>Buchloe dactyloides</i> |
| Fescue* (tall, Kentucky, hard, creeping) | <i>Festuca spp</i> |
| Green needlegrass** | <i>Stipa viridula</i> |
| Indiangrass | <i>Sorghastrum nutans</i> |
| Kleingrass** | <i>Panicum coloratum</i> |
| Lovegrasses (sand, weeping) | <i>Eragrostis spp.</i> |
| Sideoats gramma | <i>Bouteloua curtipendula</i> |
| Switchgrass | <i>Panicum virgatum</i> |
| Wildrye | <i>Elymus spp.</i> |

* Some types of fescue are sensitive. Use rates at the lower end of the rate range.

** Except California.

Application rates higher than those specified for specific grasses, up to 1-1/3 ounces per acre, may be made as a spot treatment provided the resulting injury and possible loss of forage can be tolerated by the grower.

WEEDS CONTROLLED

Refer to the Weeds Controlled section of this label for rates to control various weeds.

USE PRECAUTIONS

Broadleaf forage species, such as clover and alfalfa, are sensitive to this product and will be severely stunted or injured by this product.

Forage grasses which are under stress from drought, insects, disease, cold temperature or poor fertility may be injured by this product.

Forage grasses should be well established before applying this product as the newly emerged seedlings of some forage grasses are sensitive to this product.

This product applied before the initiation of flowering may cause the abortion or suppression of seedheads by some cool season grasses.

Varieties and species of forage grasses differ in their tolerance to this product. Ryegrass (perennial and Italian) may be severely injured. Fescues may be temporarily stunted or yellowed. When using this product on a particular grass for the first time, limit the area treated. If no injury occurs, larger areas may be treated in subsequent years.

NON-AGRICULTURAL USES

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.

Use on noncrop sites is not within the scope of the Worker Protection Standard.

Do not enter or allow entry into treated areas until sprays have dried.

NON-CROP SITES

Application Information

This product is may be used for weed control on private, public and military lands as follows: nonagricultural areas (such as airports, highway, railroad and utility rights-of-way, sewage disposal areas, etc.); uncultivated agricultural areas -- non-crop-producing (such as farmyards, fuel storage areas, fence rows, soil bank land, barrier strips, etc.); industrial sites -- outdoor (such as lumberyards, pipeline and tank farms, etc.) including grazed areas on these sites. Do not apply more than 3 applications per year. Do not exceed a total of 2.6 ounces of product per acre per year.

Application Timing, Rates and Weeds Controlled

Apply this product as a preemergent or early postemergent spray when annual weeds are actively germinating or growing. For control of perennial weeds with this product alone, best results are obtained when weeds are treated in the bud to bloom or fall rosette stage.

INDUSTRIAL TURF (UNIMPROVED ONLY)

Application Information

This product may be used to control weeds on unimproved industrial turf, on roadsides, and on other non-crop sites.

Application Timing

Apply this product when desirable grasses are well established, as premature treatment may result in top kill and stand reduction. For best results, treat turf at green-up.

Application Rates and Weeds Controlled

Refer to the Weeds Controlled section below for rates to control various weeds. When applied at lower rates, this product provides short term control of weeds listed; when applied at the higher rates specified rates, weed control is increased.

This product may be used on the following grasses when applied at the use rates shown below. Do not apply more than 3 applications per year. Do not exceed a total of 2.6 ounces of product per acre per year.

Note: The higher rates specified and/or the addition of surfactant may result in temporary chlorosis of desirable grasses.

1/4 to 1 ounce per acre

| | |
|---|---------------------------|
| Bahiagrass | <i>Paspalum notatum</i> |
| Bermudagrass | <i>Cynodon dactylon</i> |
| Blue gramma | <i>Bouteloua gracilis</i> |
| Bluegrass | <i>Poa spp.</i> |
| Bromegrass (meadow, smooth) | <i>Bromus spp</i> |
| Orchardgrass | <i>Dactylis glomerata</i> |
| Wheatgrasses (crested, intermediate, pubescent, slender, streambank, tall, thick, spike, western) | <i>Agropyron spp.</i> |

1/2 ounce per acre

| | |
|--|--------------------------------|
| Bentgrass | <i>Agrostis spp</i> |
| Bluestems (big, little, plains, sand, ww spar) | <i>Andropogon spp.</i> |
| Buffalograss | <i>Buchloe dactyloides</i> |
| Galleta | <i>Hilaria jamesii</i> |
| Needlegrass, green | <i>Stipa viridula.</i> |
| Green sprangletop | <i>Leptochloa dubia</i> |
| Indiangrass | <i>Sorghastrum nutans</i> |
| Indian ricegrass | <i>Oryzopsis hymenoides</i> |
| Kleingrass | <i>Panicum coloratum</i> |
| Lovegrasses (sand, weeping) | <i>Eragrostis spp.</i> |
| Prairie sandreed | <i>Calamovilfa lon gifolia</i> |
| Sheep fescue | <i>Festuca ovina</i> |
| Sideoats gramma | <i>Bouteloua curtipendula</i> |
| Switchgrass | <i>Panicum virgatum</i> |
| Wildrye grasses (beardless, Russian) | <i>Elymus spp.</i> |

1/4 to 1/2 ounce per acre

| | |
|--------------|-----------------------|
| Fescue | <i>Festuca spp</i> |
| Smooth brome | <i>Bromus inermis</i> |

GRASS GROWTH SUPPRESSION AND SEEDHEAD INHIBITION

Application Information

This product as a tank mix with other herbicides may be used to suppress grass growth (chemical mowing) and inhibit seedhead formation.

Application Timing

Apply this product to turf at green-up and before seed heads emerge (boot stage). Ensure that desirable grasses are well established at application, as premature treatment may result in top kill and stand reduction.

Application Rates and Weeds Controlled

Refer to the Weeds Controlled section below for rates to control various weeds. When applied at lower rates, this product provides short term control of weeds listed; when applied at higher specified rates, weed control is increased.

This product may be used on the following grasses when applied at the use rates shown below.

1/4 ounce this product + 1/4 - 1/2 pt "Embark" 2S

| | |
|-----------|--------------------|
| Fescue | <i>Festuca spp</i> |
| Bluegrass | <i>Poa spp.</i> |

1/2 ounce this product + 1/2 - 1 pt "Embark" 2S (PNW Only)

| | |
|--------------------|-----------------------------|
| Fescue | <i>Festuca spp</i> |
| Annual bluegrass | <i>Poa annua</i> |
| Halogeton | <i>Halogeton glomeratus</i> |
| Perennial ryegrass | <i>Lolium perenne</i> |
| Smooth brome | <i>Bromus inermis</i> |
| Orchardgrass | <i>Dactylis glomerata</i> |
| Reed canarygrass | <i>Phalaris arundinacea</i> |

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USE RESTRICTIONS (Industrial Turf Only)

- Do not use this product or this product in a tank mix with "Embark" on bahiagrass turf or turf that is under stress from drought, insects, disease, cold temperature, or poor fertility, as injury may result.
- Do not apply this product to turf less than 1 year old.
- For replanting grasses following application of this product, refer to grass replant interval chart on page 11 and 12 of this label. Cultivation is recommended.
- For broadcast applications, do not exceed 1/2 ounce of this product per acre within a 12-month period. For those weeds listed under the 1 to 3 ounces rates in the Non-Crop, Industrial Sites section of this label, spot treatment (at that rate) may be used. Do not make broadcast applications to turf at 1 to 2.6 ounces as this may cause excessive turf injury.
- Do not apply more than 3 applications per year. Do not exceed a total of 2.6 ounces of product per acre per year.

WEEDS CONTROLLED

This product effectively controls the following weeds when applied at the use rates shown. When applied at lower rates, this product provides short term control of weeds listed; when applied at higher specified rates, weed control is increased.

1/4 to 1/2 ounce per acre

| | |
|---------------------------|----------------------------------|
| Annual sowthistle | <i>Sonchus oleraceus</i> |
| Blue mustard | <i>Chorispora tenella</i> |
| Common chickweed | <i>Stellaria media</i> |
| Common speedwell | <i>Veronica officinalis</i> |
| Common spikeweed** | <i>Hemizonia pun gens</i> |
| Conical catchfly** | <i>Silene conoidea</i> |
| Cutleaf eveningprimrose** | <i>Oenothera laciniata</i> |
| Fiddleneck (tarweed)** | <i>Amsinckia lycopsoides</i> |
| Field pennycress | <i>Thlaspi arvense</i> |
| Flixweed | <i>Descurainia sophia</i> |
| Hempnettle** | <i>Galeopsis spp.</i> |
| Henbit | <i>Lamium amplexicaule</i> |
| London rocket** | <i>Sisymbrium irio</i> |
| Mayweed** | <i>Anthemis cotula</i> |
| Miner's lettuce** | <i>Montia perfoliata</i> |
| Pineapple-weed** | <i>Matricaria matricarioides</i> |
| Prostrate pigweed** | <i>Amaranthus blitoides</i> |
| Redroot pigweed | <i>Amaranthus retroflexus</i> |
| Shepherd's purse** | <i>Capsella bursa-pastoris</i> |
| Smooth pigweed** | <i>Amaranthus chlorostachys</i> |
| Treacle mustard** | <i>Erysimum spp.</i> |
| Tumble mustard (Jim Hill) | <i>Sisymbrium altissimum</i> |
| Wild mustard | <i>Sinapis arvensis</i> |

** Except California.

1/2 to 1 ounce per acre

| | |
|-------------------------|------------------------------|
| Bouncingbet | <i>Saponaria officinalis</i> |
| Bur beakchervil** | <i>Anthriscus caucalis</i> |
| Buttercup | <i>Ranunculus spp.</i> |
| Carolina geranium** | <i>Geranium carolinianum</i> |
| Common lambsquarter | <i>Chenopodium album</i> |
| Common sunflower | <i>Helianthus annuus</i> |
| Dandelion (common)* | <i>Taraxacum officinale</i> |
| Erect knotweed** | <i>Polygonum erectum</i> |
| Goldenrod | <i>Solidago spp</i> |
| Groundsel (common) | <i>Senecio vulgaris</i> |
| Halogeton | <i>Halogeton glomeratus</i> |
| Musk thistle | <i>Carduus nutans</i> |
| Sicklepod | <i>Senna obtusifolia</i> |
| Smallseed falseflax** | <i>Camelina microcarpa</i> |
| Sweet clover* | <i>Melilotus spp.</i> |
| Tumble pigweed** | <i>Amaranthus albus</i> |
| Turkey mullein* | <i>Eremocarpus setigerus</i> |
| Whitetop (hoary cress)† | <i>Cardaria draba</i> |
| Wild buckwheat** | <i>Polygonum convolvulus</i> |
| Wild parsnip | <i>Pastinaca sativa</i> |

* Partial control only.

** Except California.

† Prebloom to bloom and fall rosette.

1 to 2.6 ounces per acre

| | |
|-------------------------------------|-------------------------------|
| Asters | <i>Aster spp</i> |
| Bedstraw* | <i>Galium spp.</i> |
| Black mustard | <i>Brassica nigra</i> |
| Bull thistle | <i>Cirsium vulgare</i> |
| Burclover | <i>Medicago spp.</i> |
| Canada thistle | <i>Cirsium arvense</i> |
| Common cinquefoil | <i>Potentilla canadensis</i> |
| Common mallow | <i>Malva neglecta</i> |
| Common mullein | <i>Verbascum thapsus</i> |
| Common ragweed* | <i>Ambrosia elatior</i> |
| Common tansy | <i>Tanacetum vulgare</i> |
| Common teasel | <i>Dipsacus fullonum</i> |
| Common yarrow | <i>Achillea millefolium</i> |
| Corn spurry | <i>Spergula arvensis</i> |
| Cow cockle | <i>Vaccaria pyramidata</i> |
| Curly dock | <i>Rumex crispus</i> |
| Dyer's woad | <i>Isatis tinctoria</i> |
| False chamomile** | <i>Matricaria maritima</i> |
| Foxtails* | <i>Setaria spp</i> |
| Horestail (<i>Equisetum spp.</i>) | <i>Equisetum spp.</i> |
| Houndstongue, common | <i>Cynoglossum officinale</i> |
| Italian ryegrass* | <i>Lolium multiflorum</i> |
| Marestail/horseweed | <i>Conyza canadensis</i> |
| Pepperweed** | <i>Lepidium spp.</i> |
| Pepperweed (perennial) | <i>Lepidium latifolium</i> |
| Poison-hemlock | <i>Conium maculatum</i> |
| Prostrate knotweed | <i>Polygonum aviculare</i> |
| Puncturevine | <i>Tribulus terrestris</i> |
| Red clover** | <i>Trifolium pratense</i> |
| Russian knapweed† | <i>Acroptilon repens</i> |
| Scotch thistle | <i>Onopordum acanthium</i> |
| Scouringrush | <i>Equisetum hyemale</i> |
| Sickleweed | <i>Falcaria vulgaris</i> |
| Spreading orach | <i>Atriplex patula</i> |
| Tansymustard | <i>Descurainia pinnata</i> |
| Tansy ragwort | <i>Senecio jacobaea</i> |
| White clover | <i>Trifolium repens</i> |

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WEEDS CONTROLLED (Continued)

1 to 2.6 ounces per acre

| | |
|-------------------------|-------------------------------|
| Wild carrot | <i>Daucus carota</i> |
| Wild garlic/ wild onion | <i>Allium vineale</i> |
| Yellow starthistle* | <i>Centaurea solstitialis</i> |

* Partial control only.

** Except California.

† Prebloom to bloom and fall rosette.

SPECIFIC WEED PROBLEMS

Dalmation Toadflax (*Linaria genistifolia*): Apply 2 to 2.6 ounces of this product per acre as a high volume foliar spray using a minimum of 24 gallons of water per acre. Use of a surfactant, as directed on this label, is recommended. Fall applications of this product appear to provide the most consistent control.

Yellow Toadflax (*Linaria vulgaris*): Apply a minimum of 1.5 ounces of this product per acre, however, do not exceed 2.6 ounces of product per acre.

Kochia, Russian Thistle, and Prickly Lettuce: Tank mix this product with herbicides with different modes of action (such as "Weedmaster" or "Weedestroy AM-40" plus "Diablo"), and apply postemergence before weeds form mature seeds.

Yellow Starthistle (*Centaurea solstitialis*): Apply this product at 1/2 to 2.6 ounces per acre in combination with the recommended rates of other herbicides registered for this use (such as, clopyralid, picloram or "Weedestroy AM-40"). For application method and other use instructions, use the most restrictive directions for the intended use. To improve postemergence control, a spray adjuvant should be added at the manufacturer's recommended use rate.

When applied at lower rates, this product provides short term control; when applied at higher specified rates, weed control spectrum and residual is increased.

Note: Do not apply more than 1-1/3 ounces per acre of this product per year in pasture, range and Conservation Reserve Program treated acres.

Rainfall is needed following the application for activation of this product to provide the preemergence control of yellow starthistle. Applications should be made from early emergence to bolting stage of growth.

GRASS REPLANT INTERVALS

Following an application of this product to non-crop areas, the treated sites may be replanted with various species of grasses at the minimum intervals recommended below.

For soils with a pH of 7.5 or less observe the following replant intervals:

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GRASS REPLANT INTERVALS

| Species | Rate oz/acre | (Months) |
|---|---------------|-------------|
| Brome, meadow <i>Bromus erectus</i> | 1/2-1 1-2 | 1 2 |
| Brome, smooth <i>Bromus inermis</i> | 1/2-1 1-2 | 2 4 |
| Fescue, alta/tall <i>Festuca arundinacea</i> | 1/2 1 2 | 2 3 5 |
| Fescue, sheep <i>Festuca ovina</i> | 1/2-1 1-2 | 2 4 |
| Foxtail, meadow <i>Alopecurus pratensis</i> | 1/2 1 2 | 3 4 6 |
| Needlegrass, green <i>Stipa viridula</i> | 1/2-2 | 1 |
| Orchardgrass <i>Dactylis glomerata</i> | 1/2 1-2 | 2 3 |
| Russian wildrye <i>Elymus spp.</i> | 1/2-2 | 1 |
| Switchgrass <i>Panicum virgatum</i> | 1/2-2 | 3 |
| Timothy <i>Phleum pratense</i> | 1/2 1 2 | 2 4 6 |
| Wheatgrass, western <i>Agropyron smithii</i> | 1/2 1 2 | 1 2 4 |

For soils having a pH of 7.5 and greater, observe the following minimum replant intervals:

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THIS PRODUCT REPLANT INTERVAL

| Species | Rate oz/acre | (Months) |
|-------------------------------|--------------|----------|
| Alkali sacaton | 1/2 | 1 |
| <i>Sporobolus airoides</i> | 1 | 3 |
| | 2 | >3 |
| Bluestern Big | 1/2 | 3 |
| <i>Andropogon gerardii</i> | | |
| Brome, Mountain | 1/2 | 1 |
| <i>Bromus marginatus</i> | 1 | 2 |
| | 2 | >3 |
| Gamma, Blue | 1/2 | 1 |
| <i>Bouteloua gracilis</i> | 1 | 2 |
| | 2 | >3 |
| Gamma, Sideoats | 1-2 | >3 |
| <i>Bouteloua curtipendula</i> | | |
| Switchgrass | 1-2 | >3 |
| <i>Panicum virgatum</i> | | |
| Wheatgrass, Bluebunch | 1-1/3 | 1 |
| <i>Agropyron spicatum</i> | | |
| Wheatgrass, Crested | 2/3 | 1 |
| <i>Agropyron cristatum</i> | 1-1/3 | 1 |
| Wheatgrass, Intermediate | 1-1/3 | 1 |
| <i>Agropyron intermedium</i> | | |
| Wheatgrass, Slender | 1-1/3 | 1 |
| <i>Elymus trachycaulum</i> | | |
| Wheatgrass, Siberian | 1-1/3 | 1 |
| <i>Agropyron fragile</i> | | |
| Wheatgrass, Streambank | 1-1/3 | 1 |
| <i>Agropyron riparium</i> | | |
| Wheatgrass, Thickspike | 1/2-2 | 1 |
| <i>Agropyron dasystachyum</i> | | |
| Wheatgrass, Western | 1/2 | 1 |
| <i>Agropyron smithii</i> | 1 | 2 |
| | 2 | 4 |

The specified minimum intervals are for applications made in the spring to early summer. Because this product degradation is slowed by cold or frozen soils, applications made in the late summer or early fall should consider the intervals as beginning in the spring following treatment.

Testing has indicated that there is a considerable variation in response among the species of grasses when seeded onto areas treated with this product. If species other than those listed above are to be planted into areas treated with this product a field bioassay should be performed, or previous experience may be used to determine the feasibility of replanting treated sites.

ADDITIONAL USE INSTRUCTIONS

SPRAY EQUIPMENT

For non-crop sites, apply this product using ground equipment only, or as otherwise directed by Supplemental or Special Local Need Labeling.

In pasture, range or Conservation Reserve Program (CRP), treatments of this product may be applied by either ground equipment, fixed wing aircraft, or helicopter.

Equipment used to apply this product should not be used for applications to crops following this product's application, as low rates of this product may kill or severely injure most crops (except pasture, range, and small grains).

For specific application equipment, refer to the manufacturer's recommendations for additional information on GPA, pressure, speed, nozzle types and arrangements, nozzle heights above the target canopy, etc.

Be sure to calibrate air or ground equipment before application. Select a spray volume and delivery system that will ensure a uniform spray pattern and thorough coverage of weed pests. Use higher spray volumes to obtain better coverage when the weed canopy is dense. Avoid swath overlapping, and shut off spray booms while starting, slowing, or stopping to avoid crop injury. Do not make applications using equipment and/or spray volumes or under weather conditions that might cause spray drift onto nontarget sites. For additional information on spray drift, refer to the Spray Drift Management section of the label. Continuous agitation is required to keep this product in suspension.

NOTE: Using ammonia solution will help solubilize the this product. This reduces the need to agitate the tank mixture to prevent settling out. The product will usually remain stable in this solution for a maximum of one to three days under normal conditions. A pH range of 7 to 8 is ideal for this spray-mix solution. Mixing and spraying the product immediately will provide the best results.

Mix one fluid ounce (2 tablespoons) of ammonia solution (3% active) with every ounce (by weight) of this product used in the spray tank.

GROUND APPLICATION:

BROADCAST APPLICATION

Use 20 to 40 GPA when applying this product as a broadcast application. Be sure to calibrate sprayers before application. Select a spray volume and delivery system that will ensure thorough coverage and a uniform spray pattern. When spraying industrial turf, avoid overlapping and shut off spray booms while starting, turning, slowing, or stopping to avoid injury to desired species.

HIGH VOLUME HANDGUN APPLICATION

When making applications of this product with a handgun, apply at up to 100 gallons of spray solution per acre(GPA). Mix this product at 1 to 3 ounces per acre plus an adjuvant. Add a foam reducing agent if needed. Use the higher rate for hard to control species but do not apply more than 3 ounces per acre. Apply evenly to ensure thorough coverage of the site and weed pest(s) to be treated.

INVERT SPRAY APPLICATION

Apply the high viscosity invert solution as a total volume of 10 to 40 gallons per acre. Mix 1/4 to 3 ounces of this product per acre in the water phase of the invert solution. Refer to the Weeds Controlled sections of this label for selecting the appropriate use rate for the target weeds. Follow all use directions and cautionary statements appearing on the labels of the inverting oils and additives or listed in the operators manual of the inverting equipment by its manufacturer.

SPOT APPLICATION:

PASTURE, RANGE AND CONSERVATION RESERVE PROGRAM (CRP)

This product may be used for control of the previously listed weeds in pasture, range and CRP using spot applications.

Spot applications may be made by using equipment such as back pack sprayers.

This product should be applied as a spray to the foliage and stems. The application volume will vary with the height and density of the weeds and the application equipment used. Regardless of the application volume and equipment used, thorough coverage of the foliage and stems is required to optimize results. To improve postemergence control of weeds, a spray adjuvant should be added at 0.25% volume or at the manufacturer's recommended rate.

Use the measuring guide enclosed with the this product container to mix one gram of this product per one gallon of water along with a suitable surfactant.. Spray to the point of wetting the entire surface of the target weeds, approximately 35 gallons of solution per acre.

NON-CROP SITES

When making spot applications of this product in non-crop areas, apply at up to 100 gallons of spray solution per acre(GPA). Mix this product at 1 to 2.6 ounces per acre plus an adjuvant. Add a foam reducing agent if needed. Use the higher rate for hard to control species but do not apply more than 2.6 ounces per acre. Apply evenly to ensure thorough coverage of the site and weed pest(s) to be treated.

AERIAL APPLICATION

Use nozzle types and arrangements that provide optimum spray distribution and maximum coverage.

Use a minimum of 3 GPA.

When applying this product by air in areas adjacent to sensitive crops, use solid stream nozzles oriented straight back. Adjust the swath to avoid spray drift damage to sensitive crops downwind and or use ground equipment to treat the border edge of fields. See the Spray Drift Management section of this label.

CROP ROTATION

Before using this product, carefully consider your rotation plans and options. If rotational flexibility is desired, do not treat all of your pasture, rangeland or CRP acres at the same time.

BIOASSAY

A field bioassay must be completed before rotating to any crop or grass species/variety not listed in this label.

To conduct a field bioassay, grow test strips of the crop(s) or grass(es) you plan to grow the following year in fields previously treated with this product. Crop or grass response to the bioassay will indicate whether or not to rotate to the crop(s) or grass(es) grown in the test strip.

If a field bioassay is planned, check with your local dealer or Nufarm representative for information detailing the field bioassay procedure.

PRECAUTIONS

Injury to or loss of desirable trees or other plants may result from the following:

- Treatment of powdery, dry soil and light, sandy soils when there is little likelihood of rainfall soon after treatment may result in off target movement and possible damage to susceptible crops when soil particles are moved by wind or water. Injury to crops may result if treated soil is washed, blown or moved onto land used to produce crops. Exposure to this product may injure or kill most crops (except small grains). Injury may be more severe when crops are irrigated.
- Applications made during periods of intense rainfall, to soils saturated with water, surfaces paved with materials such as asphalt or concrete, or soils through which rainfall will not readily penetrate may result in runoff and movement of this product. Treated soil should be left undisturbed to reduce the potential for this product movement by soil erosion due to wind or water.
- Grass species or varieties may differ in their response to various herbicides. Nufarm recommends that you first consult your state experiment station, university, or extension agent as to sensitivity to any herbicide. If no information is available, limit the initial use of this product to a small area. Components in a grass seed mixture will vary in tolerance to this product so the final stand may not reflect the seed ratio.
- Under certain conditions such as heavy rainfall, high pH, prolonged cold weather, or wide fluctuations in day/night temperatures prior to or soon after this product application, temporary discoloration and/or grass injury may occur. This product should not be applied to grass that is stressed by severe weather conditions, drought, low fertility, water-saturated soils, disease, or insect damage, as grass injury may result. Severe winter stress, drought, disease, or insect damage before or following application may also result in grass injury.
- Applications of this product to pastures, rangeland, CRP or rights-of-way undersown with legumes may cause injury to the legumes. Legumes in a seeding mixture may be severely injured or killed following an application of this product.

RESTRICTIONS

Injury to or loss of desirable trees or other plants may result from the following:

- Do not apply this product directly to moving or standing bodies of water. Do not allow this product to drift or move or be washed into moving or standing bodies of water. This is especially true for irrigation waters as small amounts of this product could severely injure or kill crops.
- If equipment is drained or flushed on or near desirable trees or other plants.
- If equipment is drained or flushed within the dripline of desirable trees or other plants.
- If equipment is drained or flushed in locations where the chemical may be washed or moved into contact with their roots of desirable trees or other plants
- When this product is applied at rates of 1-1/3 ounces per acre and less, there is no restriction on grazing or haying of forage grasses.
- Do not use on lawns, walks, driveways, tennis courts, or similar areas.
- Do not apply through any type of irrigation system.
- Do not treat frozen soil.
- Do not apply more than 1-1/3 ounces of this product (1 oz ai) per acre per year for pasture, rangelands and CPR uses.
- Do not apply more than 3 applications per year for non-crop and industrial turf uses.
- Do not exceed a total of 2.6 ounces of product per acre per year for non-crop and industrial turf uses.
- **Do not use this product in the following counties of Colorado: Saguache, Rio Grande, Alamosa, Costilla, and Conejos.**

PESTICIDE HANDLING

- Calibrate sprayers only with clean water. Do not calibrate spray equipment near well sites.
- Make scheduled checks of spray equipment.
- Assure accurate measurement of pesticides by all operation employees.
- Mix only enough product for the job at hand.
- Avoid over-filling of spray tank.
- Do not discharge excess material on the soil at a single spot in the field/grove or mixing/loading station.
- Dilute and agitate excess solution and apply at labeled rates/uses.
- Avoid storage of pesticides near well sites.
- When triple rinsing the pesticide container, be sure to add the rinsate to the spray mix.

MIXING INSTRUCTIONS

1. Fill the tank 1/4 to 1/3 full of water.
2. While agitating, add the required amount of this product.
3. Continue agitation until the this product is fully dispersed, at least 5 minutes.
4. Once this product is fully dispersed, maintain agitation and continue filling tank with water. This product should be thoroughly mixed with water before adding any other material.
5. As the tank is filling, add tank mix partners (if desired) and then add the necessary volume of spray adjuvants. Always add spray adjuvants last.

- 6. If the mixture is not continuously agitated, settling will occur. If settling occurs, thoroughly re-agitate before using.
- 7. Apply this product spray mixture within 24 hours of mixing to avoid product degradation.
- 8. If this product and a tank mix partner are to be applied in multiple loads, pre-slurry this product in clean water prior to adding to the tank. This will prevent the tank mix partner from interfering with the dissolution of this product.

Do not use this product with spray additives that reduce the pH of the spray solution to below 5.0.

SPRAYER CLEANUP

Spray equipment must be cleaned before this product is sprayed. Immediately following application of this product, follow the cleanup procedures specified on the labels of previously applied products. If no directions are provided, follow the steps outlined in the SPRAYER CLEANUP section of this label.

AT THE END OF THE DAY

When multiple loads of this product are applied, it is recommended that at the end of each day of spraying, the interior of the tank be rinsed with fresh water and then partially filled, and the boom and hoses flushed. This will prevent the buildup of dried pesticide deposits that can accumulate in the application equipment.

Thoroughly clean all mixing and spray equipment immediately following applications of this product as follows:

- 1. Drain tank; rinse interior surfaces of tank; then flush tank, boom, and hoses with clean water for a minimum of 5 minutes.
- 2. Fill the tank with clean water and add the cleaning solution*. Flush the boom, hoses, and nozzles with the cleaning solution. Allow them to sit for 15 minutes with agitation running, and then drain the tank.
- 3. Repeat Step 2.
- 4. Repeat Step 1.
- 5. Remove the nozzles and screens and clean separately. To remove traces of cleaning solution, rinse the tank thoroughly with clean water and flush through the hoses and boom.

* Use cleaning solutions such as the following:

- 1. One gal ammonia (containing 3% active) per 100 gal of water.
- 2. "Nutra-sol" (carefully read and follow "Nutra-sol" label directions).
- 3. Loveland Spray Tank Cleaner (carefully read and follow Loveland Spray Tank Cleaner label directions).
- 4. "Tank-Cleaner" (carefully read and follow "Tank-Cleaner" label directions).

Note: This sprayer cleanup procedure is only effective for this product and for general uses specified under "Directions for Use". Do not use the sprayer on food crops (except wheat, barley and oats), feed crops (except range land, CRP and pasture), fine turf, ornamentals and other desirable plants.

SPRAY DRIFT MANAGEMENT

Avoiding spray drift at the application site is the responsibility of the applicator. Avoid drift at the application site. This product should be applied only when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops, native plant communities) is minimal (e.g. when wind is blowing away from the sensitive areas). Avoid application under conditions that may allow spray drift since very small quantities of spray may seriously injure susceptible crops during either active growth periods or dormancy. Follow the additional precautions below to minimize the potential for spray drift.

The interaction of many equipment and weather-related factors determines the potential for spray drift. The user is responsible for considering all these factors when making application decisions.

Where states have more stringent regulations, they must be observed. The applicator should be familiar and take into account the information covered in the following: Drift Control Adjuvants A drift control adjuvant may be used to further reduce the potential for drift. If a drift control adjuvant is used, follow the use directions and precautions on the manufacturer's label. Do not use an adjuvant which increases viscosity with Microfoil, Thru-Valve booms, or other systems that cannot accommodate viscous sprays.

Controlling Droplet Size:

- Nozzle Type

Use a nozzle type according to manufacturer's specifications that is designed for the intended application and produces a Coarse to Very Coarse droplet size spectrum (ASAE S572) under application conditions. Applicators must consider nozzle orientation, nozzle pressure, and flight speed in determining droplet size. Nozzles should always be oriented in the manner that minimizes the effects of air shear. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

Pressure

Do not exceed the nozzle manufacturer's recommended pressures. When higher flow rates are needed, use a higher-capacity nozzle instead of increasing pressure.

Swath Adjustment

When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the application equipment upwind. Swath adjustment distance should increase with increasing drift potential.

Wind

Drift potential is lowest with a sustained wind between 2-10 mph. However, many factors, including droplet size and equipment type,

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determine drift potential at any given wind speed. Application should be avoided during gusty conditions, and when winds are below 2 mph due to variable wind direction and high potential for a temperature inversion. Note: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

Temperature and Humidity

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

Surface Temperature Inversions

Applications must not occur during a local, surface temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds which are common during inversions. Temperature inversions are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of the smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

Shielded Sprayers

Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are preventing drift and not interfering with uniform deposition of the product.

Boom Length/Height

Setting the boom at the lowest referenced height (if specified) which provides uniform coverage reduces the exposure of droplets to evaporation and wind. The boom should remain level with the crop and have minimal bounce. Limit nozzle height to no greater than 4 feet above the top of the largest plants.

Application Height

Application more than 10 ft. above the canopy increases the potential for spray drift. Make applications no higher than 10 feet above the top of the target vegetation, unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

Boom Length

The boom length must not exceed 75% of the wing span for fixed wing aircraft or 90% for rotor blade helicopters. Using shorter booms decreases drift potential.

SENSITIVE AREAS

The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g., when wind is blowing away from the sensitive areas).

DRIFT CONTROL ADDITIVES

Drift control additives may be used with all spray equipment with the exception of controlled droplet applicators. When a drift control additive is used, read and carefully observe cautionary statements and all other information on the label. It is recommended that drift control additives be certified by the Chemical Producers and Distributors Association (CPDA).

WIND EROSION

Avoid treating powdery dry or light sandy soils when conditions are favorable for wind erosion. Under these conditions, the soil surface should first be settled by rainfall or irrigation.

STORAGE AND DISPOSAL

PESTICIDE STORAGE: Store product in original container only.

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:

For Plastic Containers: Nonrefillable container. Do not reuse or refill this container. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

For Fiber Sacks: Nonrefillable container. Do not reuse or refill this container. Completely empty fiber sack by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into manufacturing or application equipment. Then offer for recycling if available or dispose of sack in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Container Refilling and Disposal (For Containers up to 250 gal): Refillable container. If the container is to be refilled, do not rinse with any material or introduce any pesticide other than this product. Reseal and return the container to any authorized Nufarm refilling facility. If the container is not to be refilled, triple rinse (or equivalent) and offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or by open burning, if allowed by state and local authorities. If burned, keep out of smoke.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire or other emergency, call 1-800-424-9300 day or night.

Container Refilling and Disposal (For Containers up to 250 gal): Refillable container. If the container is to be refilled, do not rinse with any material or introduce any pesticide other than this product. Reseal and return the container to any authorized Nufarm refilling facility. If the container is not to be refilled, triple rinse (or equivalent) and offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or by open burning, if allowed by state and local authorities. If burned, keep out of smoke.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire or other emergency, call 1-800-424-9300 day or night.

Container Disposal for Bulk Containers: When this container is empty, replace the cap and seal all openings that have been opened during use, and return the container to the point of purchase or to a designated location named at time of purchase of this product. The container must only be refilled with this pesticide product. **DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE.** Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn-out threads and closure devices. Check for leaks after refilling and before transporting. Do not transport if this container is damaged or leaking. If the container is damaged, leaking or obsolete, contact Nufarm's Customer Service Department at 1-800-345-3330. If not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling. Disposal of this container must be in compliance with state and local regulations.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately.

Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire or other emergency, call 1-800-424-9300 day or night.

WARRANTY DISCLAIMER

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