



U S ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7505P)
Ariel Rios Building
1200 Pennsylvania Ave , NW
Washington, D C 20460

EPA Reg Number

71368-104

Date of Issuance

OCT 10 2012

Term of Issuance

Name of Pesticide Product

NUP-12062 Herbicide

NOTICE OF PESTICIDE

x Registration
Reregistration
(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code)

Nufarm Americas Inc
150 Harvester Drive, Suite 200
Burr Ridge, IL 60527

Note Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce In any correspondence on this product always refer to the above EPA registration number

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide Fungicide and Rodenticide Act Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency In order to protect health and the environment the Administrator on his motion may at any time suspend or cancel the registration of a pesticide in accordance with the Act The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others

This product is registered in accordance with FIFRA sec 3(c)(5)(A) provided that you

- 1 Submit and/or cite all data required for registration/reregistration review of your product when the Agency requires all registrants of similar products to submit data
2 Make the following label changes
a Revise the EPA Registration Number to read, "EPA Reg No 71368-104", and include the Establishment Number "

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

Signature of Approving Official

Kathryn V Montague
Product Manager 23
Herbicide Branch
Registration Division (7505P)

[Handwritten signature of Kathryn V. Montague]

Date

OCT 10 2012

2/16

GROUP 14 HERBICIDE

NUP-12062 HERBICIDE

PROVIDES PREEMERGENCE WEED CONTROL IN THE FOLLOWING SITES CONTAINER GROWN ORNAMENTALS, FIELD GROWN ORNAMENTALS INCLUDING CHRISTMAS TREE PLANTATIONS, LANDSCAPE ORNAMENTALS, NON BEARING FRUIT AND NUT TREES AND VINES, AND BARE GROUND NON-CROP AREAS

ACTIVE INGREDIENT

Flumioxazin

0.25%

OTHER INGREDIENTS

99.75%

TOTAL

100.00%

(2 [7 fluoro 3 4 dihydro 3 oxo 4 (2 propynyl) 2H 1 4 benzoxazin 6 yl] 4 5 6 7 tetrahydro 1H isoindole 1 3(2H)-dione)

This product is a granule containing 0.25% active ingredient

**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

RECEIVED

OCT 10 2012

Insecticides
Insecticide Act
71368-104

EPA REG NO 71368 RNU
EPA EST NO

MANUFACTURED FOR
NUFARM INC
150 HARVESTER DRIVE SUITE 200
BURR RIDGE IL 60527



071368 00RNU 20121002 NUP 12062 New

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

Harmful absorbed through the skin Avoid contact with skin eyes or clothing Avoid breathing dust and spray mist

FIRST AID	
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> • Take off contaminated clothing • Rinse skin immediately with plenty of water for 15 to 20 minutes • Call a poison control center or doctor for treatment advice
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 treatment advice
IF INHALED	<ul style="list-style-type: none"> • Move person to fresh air • If person is not breathing call 911 or an ambulance then give artificial respiration preferably by mouth to mouth if possible • Call a poison control center or doctor for further treatment advice
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 the poison control center or doctor • Do not give anything by mouth to an unconscious person
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	

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

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 and socks

Follow manufacturer's instructions for cleaning/maintaining PPE If no such instructions for washables exist use detergent and hot water Keep and wash PPE separately from other laundry

USER SAFETY RECOMMENDATIONS
<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/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

ENVIRONMENTAL HAZARDS

This product is toxic to aquatic invertebrates 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 apply where runoff is likely to occur Do not apply when weather conditions favor drift from treated areas Do not contaminate water when disposing of equipment washwaters or rinsate

This pesticide is toxic to plants and should be used strictly in accordance with the drift and run off precautions on this label in order to minimize off site exposures

Under some conditions this product may have a potential to run off to surface water or adjacent land Where possible use methods which reduce soil erosion such as no till limited till and contour plowing these methods also reduce pesticide run off Use of vegetation filter strips along rivers creeks streams wetlands or on the downhill side of fields where run off could occur will minimize water run off and is recommended

DIRECTIONS FOR USE

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

Read the entire label before using this product Use strictly in accordance with label precautionary statements and directions and with applicable state and federal regulations

Do not apply this product in a way that will contact workers or other persons either directly or through drift Only protected handlers may be in the area during application For any requirements specific to your State or Tribe consult the agency responsible for pesticide regulation

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AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard (WPS) 40 C FR 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 about personal protective equipment (PPE) and restricted entry interval (REI). The requirements in this box only apply to uses of this product that are covered by the WPS.

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, chemical resistant gloves made of any waterproof material, shoes, plus socks.

NON AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are not within the scope of the WPS for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural crops on farms, forests, nurseries, or greenhouses.

Keep all unprotected persons out of operating areas or vicinity where there may be drift.

Do not enter or allow others to enter the treated area until dust has settled.

TANK MIXES

NOTICE: Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator, and/or application advisor to the extent allowed by applicable law.

Read and follow the entire label of each product to be used in the tank mix with this product.

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USE INFORMATION

This product is a selective preemergence herbicide that provides extended residual control of a wide variety of annual broadleaf and grassy weeds. This product is labeled for use in containerized and field grown (in ground) woody ornamental shrubs and trees, ground covers and non bearing fruit and nut trees that are grown in nurseries, conifer plantations and ornamental landscapes. This product is also labeled to maintain bare ground in non crop areas.

This product controls weeds by inhibiting protoporphyrinogen oxidase, an essential enzyme required by plants for chlorophyll biosynthesis. Seeding weeds are controlled preemergence when exposed to sunlight following contact with the soil applied herbicide. This product has limited post emergent activity against newly germinated seedlings of some weed species, but should be applied before weed germination to ensure optimal control.

Most hardy woody ornamental shrubs, trees, and ground covers are tolerant to this product so long as the product is applied in accordance with the label. This product may cause leaf spotting on some tolerant species if granules are allowed to remain in contact with leaf surfaces, especially on new flush or on foliage that is wet at the time of application. However, subsequent plant growth is generally unaffected. This product may injure some otherwise tolerant species if not applied in accordance with the label, and may also injure ornamental species that are not listed on the label. Therefore, read all label precautions and restrictions before applying this product to ornamental plants.

RESTRICTIONS AND LIMITATIONS

- Do not apply by air
- Do not apply to moist or wet foliage
Do not apply when winds are gusty or above 10 mph
- Do not apply to plants that are under moisture stress or stress from insects, diseases, animals, winter injury, planting shock or any other stresses
- Use caution when applying to plants that are producing a new flush of growth because herbicide may injure tender, newly formed leaves if granules remain in contact with leaf surfaces
Do not apply to plants grown from seed until at least one year after seed germination, unless tolerance is first confirmed on a small number of plants
- Do not apply to plants whose leaves channel the herbicide granules to the leaf base
- Do not apply to herbaceous bedding plants or areas where bedding plants will be planted or transplanted within three months following application
- Do not apply to plants while in propagation
- Do not apply to liners that are in pots less than 4 inches in diameter
- Do not apply to recently transplanted liners with root balls that are less than 4 in diameter until liners have been actively growing for at least 6 weeks after transplanting
- Non bearing fruit and nut trees such as citrus, apples, pears, peaches, etc. are defined as plants that will not bear fruit for at least one year after application
- Do not incorporate product into soil or potting media
- Do not apply more than 150 lbs per acre in a single application or more than 300 lbs per acre in a single year
- Do not treat the same plants more than one time every 8 weeks or more than two times per year
- Do not apply in an enclosed greenhouse structure
- Do not graze or feed livestock forage cut from treated areas

Tolerance of Turfgrass Adjacent to Ornamental Plantings

This product may injure actively growing turfgrass, especially if wet at time of application. Therefore, do not apply this product directly to turfgrass and minimize drift of this product onto turfgrass during application to ornamentals. Injury from accidental drift of this product onto turfgrass will generally be temporary.

Preemergence Application

This product provides effective preemergence control of weeds listed in Table 4. For optimal preemergence control, apply this product to clean, weed free soil or mulch before weed seeds germinate. Disturbing soil surfaces after application may reduce herbicide efficacy. Remove existing weeds, weed residues and trash before applying this product. Approximately 1/2 to 3/4 inch of rainfall, overhead sprinkler irrigation or hand irrigation is required to activate this product. Inadequate irrigation or rainfall following application may reduce effectiveness of this product. If adequate soil moisture is maintained following application, this product should provide at least 8 to 12 weeks of preemergent control of labeled weeds, except under unusual environmental conditions (excessive rainfall, irrigation or temperature). Control is generally most persistent under cooler temperatures.

Application Instructions

Apply this product with clean, well maintained drop or rotary type granular application equipment. Calibrate application equipment prior to use according to manufacturer's directions. Refer to Table 1 for calibration of hand cranked rotary spreaders. Check frequently to be sure equipment is working properly and distributing granules uniformly. Avoid skips and overlaps, as poor weed control or crop injury may occur. Clean equipment before adding this product to ensure that no residue from the previous operation remains. Some pesticides are active at very trace quantities and can cause injury when applied to susceptible plants.

Application Recommendations

Remove any existing weeds before applying this product

Apply to dry foliage only To test for moisture rub hands over plant foliage

Irrigate plants within 1 hour after application with 1/2 to 3/4 inch of water to activate the herbicide and remove any remaining herbicide granules. If herbicide granules are allowed to remain on plant foliage for an extended period herbicide residues may be released and cause leaf spotting on some sensitive ornamental species especially on new flush

If granules remain on foliage following application and plants will not be irrigated for more than one hour after application lightly brushing or blowing plants will reduce the potential for plant injury

Application Techniques

Apply this product with a properly calibrated drop or rotary type spreader that will ensure accurate even particle distribution

When using a drop type spreader a splashboard mounted under the hopper will provide more even granule distribution

When using a hand held or push type rotary applicator such as a whirlybird or cyclone unit walk and turn the crank at a constant rate of speed

Use a hand s haker to treat small numbers of plants or areas that are difficult to reach with a whirlybird or cyclone spreader

Construct hand s hakers by punching holes in the lid of a small plastic container. Calculate amount of this product needed to treat area place this amount in shaker and apply evenly over plants. Refer to Table 3 for amounts needed to treat individual containers

Drift Management

Do not apply under circumstances where possible drift to unprotected persons or to food forage or other plantings that might be damaged or crops thereof rendered unfit for sale use or consumption can occur

Make applications when the wind velocity favors on target product deposition. Apply only when the wind speed is less than or equal to 10 mph. For all applications wind speed must be measured adjacent to the application site on the upwind side immediately prior to application

All application equipment must be properly maintained and calibrated using appropriate carriers

Resistance Management

Any weed population may contain or develop plants naturally resistant to herbicides in various mode of action classes. Resistant biotypes may eventually dominate the weed population if the same class of chemistry/mode of action herbicides are used repeatedly in the same use site or in successive years

To Delay Herbicide Resistance

Avoid the use of herbicides that have a similar target site mode of action in consecutive years

Base herbicide use on an Integrated Pest Management (IPM) program that includes scouting record keeping and consideration of cultivation practices water management weed free crop seed crop rotation and other chemical or cultural control practices

Monitor treated weed population for resistance development and report suspected resistance

Contact your local extension or crop expert (advisor) for any additional pesticide resistance management and/or IPM recommendations for specific crops and weed biotypes

For further information contact Nufarm Inc at the following toll free number 800 345 3330

CALIBRATION OF HERBICIDE APPLICATION EQUIPMENT

This product is a very active herbicide and can injure some otherwise tolerant plants if applied at excessive rates. The user is responsible for accurately calibrating herbicide application equipment so that this product is applied at the labeled rate of 150 lbs per acre. The user assumes responsibility for any plant damage or other liability resulting from application of this product at excessive rates

Hand Cranked Spreaders

The application rate (lbs /acre) of this product with hand cranked spreaders will depend on the width of the plant bed to be treated the operator's walking speed the speed at which the operator turns the crank and the spreader setting (opening). The walking and cranking speed will vary among individual operators

Therefore hand cranked spreaders must be calibrated for individual operators in order to apply this product at the labeled rate of 150 lbs per acre

Use the spreader settings in Table 1 as a starting point when calibrating hand cranked spreaders for application of this product. These settings assume a walking speed of 3 mph a cranking speed of 60 revolutions per minute (rpm) and that the operator makes one pass down each aisle between each plant bed

To more precisely calibrate hand cranked spreaders for application of this product by individual operators first select a test area that does not have plants present. Calculate the number of square feet in the test area by multiplying the length by the width (in feet) of the area to be treated. Include aisle space between beds when determining length and width of the test area. Then calculate the amount of this product needed to treat the test area by multiplying the number of square feet in the test area by 150 and dividing this result by 43 560. If the hand cranked spreader is listed in Table 1 set the spreader opening to the position indicated for the appropriate bed width. Place calibration trays in test area. Weigh out calculated amount of this product place in the spreader and apply to the test area at applicator's standard walking and cranking speed. Adjust spreader opening if measured amount of this product does not evenly cover the test area and/or if calibration trays indicate that too much or too little of this product has been applied.

Example there is room for six plant beds in the test area that will be treated with this product. Beds are 60 feet in length six feet wide and are separated by two foot aisles. Therefore the width of test area (ie distance between outside of Bed 1 and outside of Bed 6) is 46 ft and the number of square feet in the test area = 60 ft x 46 ft = 2 760 square feet. Amount of this product needed to treat the test area = 2 760 x 150/43 560 = 9 5 pounds.

Table 1 Settings (Port Opening) for Hand Cranked Rotary Spreaders

Spreader	One Sided Operation		Two Sided Operation	
	Bed Width (ft)	Spreader Setting	Bed Width (ft)	Spreader Setting
Spyker 75	4	2 5	4	3 0
	6	3 0	6	3 5 - 4 0
	8	3 5	8	4 5
	10	3 5 - 4 0	10	4 5 - 5 0
	12	4 0	12	5 0 - 6 0
Warren T 7 11	4	--	4	4 0
	6	3 5 - 4 0	6	4 5
	8	4 0 - 4 5	8	5 0 - 5 5
	10	4 5	10	6 0
	12	5 0	12	
Earthway 3100	4	8	4	8 - 10
	6	10 12	6	10
	8	10 12	8	10 - 12
	10	12	10	12
	12	12	12	12 - 14
Solo 421S	4	1	4	2
	6	1 - 2	6	3
	8	1 - 2	8	4
	10	2	10	5 - 6
	12	3 4	12	

Table 2 Weight To Volume Conversion Table

Rate	Amount / 1 000 sq ft		Amount / 100 sq ft	
	Lbs	Qts	Lbs	Cups
150	3 4	2 4	0 34	1 0

One pound of this product = 0 7 quarts = 2 8 cups

Application to Individual Containers

This product may be applied to the surface of individual containers but only at a rate that is equivalent to the amount of product that would land on the media surface of an individual container if broadcast at 150 lbs per acre. Use the conversions in Table 3 to determine how much this product to apply to an individual container and then use a hand shaker to evenly distribute over the media surface.

Table 3 Application Amounts for Individual Containers (equivalent to 150 lbs/A)

Pot Diameter (inches)	Gram(s) per Pot	Teaspoons per Pot	Pot Diameter (inches)	Gram(s) per Pot	Teaspoons per Pot
4	0.14	1/28	24	4.91	1 1/4
5	0.21	1/18	25	5.33	1 1/2
6	0.31	1/12	26	5.76	1 1/2
7	0.42	1/9	27	6.21	1 3/4
8	0.55	1/7	28	6.68	1 3/4
9	0.69	1/6	29	7.17	2
10	0.85	1/5	30	7.67	2
11	1.03	1/4	31	8.19	2
12	1.23	1/3	32	8.73	2 1/4
13	1.44	1/3	33	9.28	2 1/2
14	1.67	1/2	34	9.85	2 1/2
15	1.92	1/2	35	10.44	2 3/4
16	2.18	5/8	36	11.05	3
17	2.46	5/8	37	11.67	3
18	2.79	3/4	38	12.31	3 1/4
19	3.08	3/4	39	12.96	3 1/2
20	3.41	7/8	40	13.64	3 1/2
21	3.76	1	41	14.33	3 3/4
22	4.12	1	42	15.03	4
23	4.51	1 1/4			

One level teaspoon of this product weighs approximately 3.8 grams
 One heaping teaspoon of this product weighs approximately 5.9 grams
 One level tablespoon of this product weighs approximately 11.2 grams

ORNAMENTAL PLANT TOLERANCE INFORMATION

Most woody ornamental plants are tolerant to this product when the product is applied according to the label. However, this product is a very active herbicide and should not be applied on a commercial scale until the user has first confirmed its safety on a small number of test plants grown under his or her growing conditions. Test plants should be actively growing at the time of application and examined for 4 to 8 weeks for symptoms of plant injury. If test plants are dormant at the time of application or enter dormancy within 8 weeks after application, continue the injury evaluation until after plants break dormancy in the spring.

Mild leaf spotting is the most common symptom of injury from this product on tolerant ornamental plants and usually appears within 1 to 2 days after application. Leaf spotting is most likely to occur when this product is applied to new flush that is wet at time of application. In order to minimize the risk of leaf spotting, completely read and follow the **Application Recommendations** section of the label.

If NOT applied in accordance with the label, this product may cause unacceptable injury to some otherwise tolerant ornamental plant species.

Treatment of Ornamental Plant Species Labeled as Sensitive

This product can cause significant injury to woody ornamental plants listed in Table 5. **The user assumes responsibility for any plant damage that results from the application of this product to plants listed as sensitive.**

Treatment of Ornamental Plant Species NOT Listed on Label

This product can be applied to woody ornamental shrubs and trees not specifically listed on this label. However, the user should NOT begin commercial scale application of this product on non-listed species until after first confirming the product's safety on a small number of plants grown under standard growing conditions. **The user assumes responsibility for any plant damage that results from the application of this product to non-listed plant species.**

Treatment of Ornamental Plant Species with Wet Foliage

When this product is applied to dry plants, most granules of this product will bounce or roll off of foliage before releasing herbicide residues. However, if this product is applied to plants that are wet from dew, irrigation water or rainfall, some granules may stick to foliage and release herbicide residues. Herbicide release **onto** wet foliage can injure some plant species, including those that are tolerant, when this product is applied to dry foliage. Therefore, this product should NOT be applied to wet plants, especially those with pubescent foliage or a leaf structure that tends to trap granules at growing points.

Treatment of Recently Transplanted Liners

Under certain conditions this product can cause significant injury to recently transplanted liners of some plant species that are tolerant when more established (i.e. have formed a well developed root system). Injury to recently transplanted liners is most likely when this product is applied to smaller liners (less than one gallon container size) is applied at above labeled rates and is applied before potting media has been settled by irrigation or rainfall. Therefore **do not apply this product to recently transplanted liners with root balls less than 4 inches in diameter until plants have been actively growing for at least 6 weeks after transplanting and have established a vigorous root system**

Treatment of Herbaceous Plants Tropical Shrubs and Foliage Plants

This product will severely injure many annual bedding plants (e.g. Petunia) and some herbaceous perennials (e.g. Hosta) tropical shrubs and foliage plants. Therefore do not apply this product over the top of herbaceous annual bedding plants herbaceous perennials tropical shrubs or foliage plants until after the user has confirmed the product's safety on a small number of plants grown under standard growing conditions.

Treatment of Seedling Trees and Shrubs

This product may injure seedlings of some trees and shrubs if applied before seedlings have established a vigorous root system. Therefore do not apply this product to tree and shrub seedlings within one year after germination unless the user has first confirmed the product's safety on a small number of plants grown under standard growing conditions.

DIRECTIONS FOR USE IN CONTAINER, FIELD OR LANDSCAPE GROWN ORNAMENTAL SHRUBS, TREES, CHRISTMAS TREES, GROUND COVERS, NON BEARING FRUIT AND NUT TREES, VINES, AND BARE GROUND NON CROP AREAS

In residential and commercial landscape this product should only be applied by commercial licensed applicators. When this product is applied at 150 lbs per acre (approximately 3.5 lbs per 1000 sq ft) it is an effective herbicide treatment for control of the weeds listed in Table 4 when applied to established container field or landscape grown shrubs trees Christmas trees ground covers non bearing fruit and nut trees and vines. This product may also be applied at 150 lbs/A to maintain bare ground in non crop areas in apartment complexes gravel surfaces ground mats golf courses office complexes parks parking areas recreational sites schools sidewalks and other similar sites. Apply this product in these settings before weeds germinate.

READ AND FOLLOW THE ENTIRE **USE INFORMATION** SECTION OF THIS LABEL BEFORE APPLYING

Special Product Use Precautions for Landscape Application

This product can cause contact injury to foliage of landscape ornamentals if applied over the top of new flush and especially if foliage is wet. To maximize crop tolerance apply this product to dormant or non actively growing landscape plants and avoid application to new flush.

To minimize the potential for plant injury do not apply this product

To foliage that is wet due to rainfall irrigation or dew

Over the top of ornamental plants not listed on this label until evaluating plant tolerance on a small number of plants grown under standard growing conditions

To plants whose leaves channel the herbicide granules to the leaf base

To plants grown from seed until at least one year after seed germination unless tolerance is first confirmed on a small number of plants

To bedding plants or in areas where bedding plants will be planted or transplanted within three months following application

To recently transplanted ornamentals (including those on the list of tolerant ornamental species) until such plants have been actively growing for at least 6 weeks after transplanting and have established a vigorous root system

WEEDS CONTROLLED

When applied at 150 lbs/A before weeds germinate this product will provide good to excellent preemergent control of the following annual grass and broadleaf weeds

Table 4 WEEDS CONTROLLED

COMMON NAME	SCIENTIFIC NAME
Alyssum Hoary	<i>Berteroa incana</i>
Amaranth	
Palmer	<i>Amaranthus palmeri</i>
Spiny	<i>Amaranthus spinosus</i>
Barnyardgrass	<i>Echinochloa crus galli</i>
Beggarweed Florida	<i>Desmodium tortuosum</i>
Bittercress Hairy	<i>Cardamine hirsute</i>
Bluegrass Annual	<i>Poa annua</i>
Burclover California	<i>Medicago hispida</i>
Carpeweed	<i>Mollugo verticillata</i>
Chickweed	
Common	<i>Stellana media</i>
Mouseear	<i>Cerastium vulgatum</i>
Crabgrass	
Large	<i>Digitaria sanguinalis</i>
Smooth	<i>Digitaria ischaemum</i>
Southern	<i>Digitaria ciliana</i>
Croton Tropic	<i>Croton glandulosus var septentrionalis</i>
Dandelion	<i>Taraxacum officinale</i>
Dayflower Benghal	<i>Commelina benghalensis</i>
Dogfennel	<i>Eupatorium capillifolium</i>
Doveweed	<i>Murdannia nudiflora</i>
Eclipta	<i>Eclipta prostrate</i>
Filaree Redstem	<i>Erodium cicutanum</i>
Foxtail	<i>Datura stramonium</i>
Bristly	<i>Setaria verticillata</i>
Giant	<i>Setaria faberi</i>
Green	<i>Setaria viridis</i>
Yellow	<i>Setaria glauca</i>
Galinsoga Hairy	<i>Galinsoga ciliata</i>
Geranium Carolina	<i>Geranium carolinianum</i>
Goosegrass	<i>Eleusine indica</i>
Groundsel Common	<i>Senecio vulgaris</i>
Henbit	<i>Lamium amplexicaule</i>
Horseweed	<i>Conyza canadensis</i>
Indigo Hairy	<i>Indigofera hirsuta</i>
Jimsonweed	
Kochia	<i>Kochia scoparia</i>
Ladysthumb	<i>Polygonum persicaria</i>
Lambsquarters Common	<i>Chenopodium album</i>
Liverwort	<i>Marchantia polymorpha</i>
Lovegrass California	<i>Eragrostis diffusa</i>
Mallow	
Common	<i>Malva neglecta</i>
Little	<i>Malva parviflora</i>
Venice	<i>Hibiscus trionum</i>
Mayweed	<i>Anthemis cotula</i>
Morningglory	
Entireleaf	<i>Ipomoea hederacea var integruscula</i>
Ivyleaf	<i>Ipomoea hederacea</i>
Smallflower	<i>Jacquemontia tamnifolia</i>
Tall	<i>Ipomoea purpurea</i>
Moss species	<i>Bryum spp</i>
Mulberry Weed	<i>Fatua villosa</i>
Nightshade	
Black	<i>Solanum nigrum</i>
Eastern Black	<i>Solanum ptycanthum</i>
Panicum	
Fall	<i>Panicum dichotomiflorum</i>

Texas	<i>Panicum texanum</i>
Parsley Piert	<i>Alchemilla arvensis</i>
Pearlwort Birdseye	<i>Sagina procumbens</i>
Pennycress Field	<i>Thlaspi arvense</i>
Phyllanthus Longstalk	<i>Phyllanthus tenellus</i>
Pigweed	
Prostrate	<i>Amaranthus blitoides</i>
Redroot	<i>Amaranthus retroflexus</i>
Smooth	<i>Amaranthus hybridus</i>
Tumble	<i>Amaranthus albus</i>
Pineapple weed	<i>Matricaria matricarioides</i>
Plantain	
Broadleaf	<i>Plantago major</i>
Buckhorn	<i>Plantago lanceolata</i>
Puncturevine	<i>Tribulus terrestris</i>
Purslane Common	<i>Portulaca oleracea</i>
Pusley Florid	<i>Richardia scabra</i>
Ragweed	
Common	<i>Ambrosia artemisiifolia</i>
Giant	<i>Ambrosia trifida</i>
Redmaids	<i>Calandrinia ciliata</i>
Rocket Yellow	<i>Barbarea vulgaris</i>
Senna Coffee	<i>Cassia occidentalis</i>
Sesbania Hemp	<i>Sesbania exaltata</i>
Shepherd s purse	<i>Capsella bursa pastoris</i>
Sida Prickly (Teaweed)	<i>Sida spinosa</i>
Signalgrass	<i>Brachiana platyphylla</i>
Smartweed Pennsylvania	<i>Polygonum pennsylvanicum</i>
Sowthistle Annual	<i>Sonchus oleraceus</i>
Spurge	
Prostrate	<i>Euphorbia humistrata</i>
Spotted	<i>Euphorbia maculata</i>
Starbur Bristly	<i>Acanthospermum hispidum</i>
Thickhead	<i>Crassocephalum crepidioides</i>
Thistle	
Canada	<i>Cirsium arvense</i>
Russian	<i>Salsola iberica</i>
Velvetleaf	<i>Abutilon theophrasti</i>
Waterhemp	
Common	<i>Amaranthus rudis</i>
Tall	<i>Amaranthus tuberculatus</i>
Woodsorrel Common Yellow	<i>Oxalis stricta</i>

Will provide some postemergent control of liverwort which will be enhanced at higher temperatures and light levels

SENSITIVE ORNAMENTAL SPECIES

Injury has been reported after application of this product to the plants listed in Table 5 especially when applied to small recently transplanted liners. In some cases only specific cultivars are listed because injury has not been reported on other cultivars of this species (See Tables 6-8). It is recommended that this product not be applied to these plant species or cultivars.

Table 5 SENSITIVE SPECIES

COMMON NAME	SCIENTIFIC NAME
Butterfly Bush	<i>Buddleia davidii</i>
Clethra Summersweet	<i>Clethra alnifolia</i>
Deutzia Slender	<i>Deutzia gracilis</i> Nikko
Holly Winterberry	<i>Ilex verticillata</i>
Hydrangea	<i>Hydrangea</i> spp
Nandina	<i>Nandina domestica</i> Firepower'
Plumbago Cape	<i>Plumbago aunculata</i>
Spiraea Japanese	<i>Spiraea japonica</i>
Wax Myrtle Southern (seedling)	<i>Myrica cerifera</i>

TOLERANT ORNAMENTAL SPECIES

Injury other than temporary leaf spotting has not been observed on species listed in Tables 6-8 when this product was applied at the labeled rate to established plants with a well developed root system. Some species listed as tolerant in Tables 6-8 may be injured if this product is applied before transplanted liners have established a well developed root system (See **Restrictions and Limitations** section in this label for complete details). This product has not been applied to all cultivars of listed species or under all environmental conditions and cultural practices under which these species could be grown. Therefore, before beginning commercial scale application of this product to plants labeled as tolerant, the user should first confirm the product's safety on a small number of plants grown under standard growing conditions.

Table 6 TREES INCLUDING CHRISTMAS TREES

COMMON NAME	SCIENTIFIC NAME
Arborvitae	
American	<i>Thuja occidentalis</i>
Giant	<i>Thuja plicata</i>
Oriental	<i>Thuja orientalis</i>
Ash	
Green	<i>Fraxinus pennsylvanica</i>
White	<i>Fraxinus americana</i>
Birch	<i>Betula</i> spp
Cedar Deodora	<i>Cedrus deodora</i>
Crabapple Flowering	<i>Malus</i> spp
Cottonwood	<i>Populus deltoids</i>
Cypress	
Italian	<i>Cupressus sempervirens</i>
Templehoff	<i>Chamaecyparis obtusa</i>
Dogwood Florida	<i>Comus florida</i>
Elm Chinese	<i>Ulmus parvifolia</i>
Eucalyptus	
Mealy	<i>Eucalyptus cinerea</i>
Red Gum	<i>Eucalyptus camaldulensis</i>
Ficus	<i>Ficus benjamina</i>
Fir	
Balsam	<i>Abies balsamea</i>
Douglas	<i>Pseudotsuga menziesii</i>
Fraser	<i>Abies fraseri</i>
Grand	<i>Abies grandis</i>
Korean	<i>Abies koreana</i>
Noble	<i>Abies procera</i>
Ginkgo	<i>Ginkgo biloba</i>
Hemlock	
Eastern	<i>Tsuga canadensis</i>
Mountain	<i>Tsuga mertensiana</i>
Western	<i>Tsuga heterophylla</i>
Lilac Hungarian	<i>Syringa josikaea</i>
Magnolia Lily	<i>Magnolia liliiflora</i>
Maple	
Flame	<i>Acer ginnala</i>
Flowering	<i>Abutilon hybridum</i>
Japanese	<i>Acer palmatum</i>
Red	<i>Acer rubrum</i>
Striped	<i>Acer pensylvanicum</i>
Mulberry White	<i>Morus alba</i>
Oak	
Bear	<i>Quercus ilicifolia</i>
Live	<i>Quercus virginiana</i>
Pin	<i>Quercus palustris</i>
Red	<i>Quercus rubra</i>
Willow	<i>Quercus phellos</i>
Pine	

Eastern White	<i>Pinus strobus</i>
Jack	<i>Pinus banksiana</i>
Lacebark	<i>Pinus bungeana</i>
Loblolly	<i>Pinus taeda</i>
Lodgepole	<i>Pinus contorta</i>
Longleaf	<i>Pinus palustris</i>
Mugo	<i>Pinus mugo</i>
Ponderosa	<i>Pinus ponderosa</i>
Sand	<i>Pinus clausa</i>
Scotch	<i>Pinus sylvestris</i>
Shortleaf	<i>Pinus echinata</i>
Slash	<i>Pinus elliotii</i>
Virginia	<i>Pinus virginiana</i>
Plum Beach	<i>Prunus maritima</i>
Podocarpus	<i>Podocarpus</i> spp
Poplar	<i>Populus</i> spp
Red Cedar Eastern	<i>Juniperus virginiana</i>
Rebud	<i>Cercis canadensis</i>
Spruce	
Blue	<i>Picea pungens</i>
Dwarf Alberta	<i>Picea glauca conica</i>
Norway	<i>Picea abies</i>
Serbian	<i>Picea omorika</i>
Sitka	<i>Picea sitchensis</i>
Sumac Staghorn	<i>Rhus typhina</i>
Sweetgum American	<i>Liquidambar styraciflua</i>
Sycamore	
American	<i>Platanus occidentalis</i>
California	<i>Platanus racemosa</i>
Yew Japanese	<i>Taxus cuspidata</i>

Table 7 SHRUBS AND GROUND COVERS

Abelia Glossy	<i>Abelia x grandiflora</i>
Acacia	<i>Acacia</i> spp
Anise Purple	<i>Illicium flodanum</i>
Barberry	<i>Berberis</i> spp
Japanese	<i>Berberis thunbergii</i>
William Penn	<i>Berberis x gladwynensis</i>
Bayberry	<i>Myrica pensylvanica</i>
Bottlebrush	<i>Callistemon</i> spp
Boxwood Littleleaf	<i>Buxus microphylla</i>
Camellia	<i>Camellia japonica</i>
Cinquefoil Shrubby	<i>Potentilla fruticosa</i>
Cotoneaster Bearberry	<i>Cotoneaster dammeri</i>
Crape Myrtle ¹	<i>Lagerstroemia indica</i> spp
Elaeagnus	<i>Elaeagnus</i> spp
English Ivy	<i>Hedera helix</i>
Euonymus, Winged ²	<i>Euonymus alatus</i>
Firethorn Scarlet	<i>Pyracantha coccinea</i>
Forsythia	
Border	<i>Forsythia x intermedia</i>
Weeping	<i>Forsythia suspense</i>
White	<i>Abeliophyllum distichum</i>
Gardenia Cape Jasmine	<i>Gardenia jasminoides</i>
Heath	<i>Erica cinerea</i>
Holly	
Chinese	<i>Ilex cornuta</i>

Inkberry	<i>Ilex glabra</i>
Japanese ²	<i>Ilex crenata</i>
Meserve ²	<i>Ilex x meserveae</i>
Nellie R Stevens	<i>Ilex x Nellie R Stevens</i>
Honeysuckle Japanese	<i>Lonicera japonica</i>
Indian Hawthorn	<i>Rhaphiolepis indica</i>
Juniper	
Creeping	<i>Juniperus horizontalis</i>
Shore	<i>Juniperus conferta</i>
Singleseed	<i>Juniperus squamata</i>
Myoporum	<i>Myoporum parvifolium</i>
Oleander	<i>Nerium spp</i>
Oregon Grape	<i>Mahonia spp</i>
Pachysandra	<i>Pachysandra terminalis</i>
Photinia	<i>Photinia x fraseri</i>
Pieris Japanese	<i>Pieris japonica</i>
Pittosporum Japanese	<i>Pittosporum tobira</i>
Privet	
Chinese ¹	<i>Ligustrum sinense</i>
Japanese	<i>Ligustrum japonicum</i>
Pyracantha	<i>Pyracantha spp</i>
Rhododendron Catawba	<i>Rhododendron catawbiense</i>
Rose	<i>Rosa spp</i>
Sweet Flag	<i>Acorus calamus</i>
Sweetspire Virginia	<i>Itea virginica</i>
Tea Olive	<i>Osmanthus fragrans</i>
Viburnum	
Arrowwood	<i>Viburnum dentatum</i>
Pink Dawn	<i>Viburnum x bodnantense</i>
Sweet ¹	<i>Viburnum odoratissimum</i>
Weigela	<i>Weigela florida</i>

¹ Temporary injury reported at bud break on some cultivars

² Injury reported following application to newly transplanted liners

Table 8 NON BEARING FRUIT AND NUT TREES AND VINES

Apples	<i>Malus spp</i>
Blueberry Huckleberry	<i>Vaccinium spp</i>
Bramble	<i>Rubus spp</i>
Cherry Sweet	<i>Prunus avium</i>
Citrus Fruits	<i>Citrus spp</i>
Grapes	<i>Vitis spp</i>
Olives	<i>Olea spp</i>
Peach	<i>Prunum persica</i>
Pears	<i>Pyrus communis</i>
Prunes	<i>Prunus spp</i>
Stone Fruits	<i>Prunus spp</i>
Tree Nuts	
Walnut	<i>Juglans spp</i>
Chestnut	<i>Castanea spp</i>
Pecan	<i>Carya illinoensis</i>
Pistachio	<i>Pistacia vera</i>
Almond	<i>Prunus dulcis</i>
Filbert	<i>Corylus maxima</i>

STORAGE AND DISPOSAL

Do not contaminate water food or feed by storage disposal or cleaning of equipment

PESTICIDE STORAGE

Keep pesticide in original container Store in a cool dry secure place Do not put formulation or dilute spray solution into food or drink containers Do not contaminate food or foodstuffs Do not store or transport near feed or food Do not use or store in or around the home For help with any spill leak fire or exposure involving this material call day or night CHEMTREC (800) 424 9300

PESTICIDE DISPOSAL

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility

CONTAINER DISPOSAL

Nonrefillable outer bag Do not reuse or refill the outer bag Completely empty bag into application equipment Then dispose of empty bag in a sanitary landfill or by incineration or if allowed by State and local authorities by burning If burned stay out of smoke

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