

228-520

10/30/2009

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

OCT 30 2009

Mr. George Meindl  
Product Registration  
Nufarm Americas, Inc.,  
150 Harvester Drive, Suite 200  
Burr Ridge, IL 60527

SUBJECT: Application for Pesticide Notification (PRN 98-10)  
Request General Label Change (Comply w/ California State Regulations)  
EPA Reg. No. 228-520  
Application Dated October 6, 2009

Dear Mr. Miendl:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated 10/06/09 for the above product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action(s) requested fall within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, please call me directly at 703-305-6249 or Owen F. Beeder of my staff at 703-308-8899.

Sincerely,

A handwritten signature in black ink, appearing to read "Linda Arrington".

Linda Arrington  
Notifications & Minor Formulations Team Leader  
Registration Division (7505P)  
Office of Pesticide Programs



Please read instructions on reverse before completing

Form Approved. OMB No. 2070-0060

	United States <b>Environmental Protection Agency</b> Washington, DC 20460	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number
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**Application for Pesticide - Section I**

<b>1. Company/Product Number</b> 228-520	<b>2. EPA Product Manager</b> Jim Tompkins	<b>3. Proposed Classification</b> <input type="checkbox"/> None <input type="checkbox"/> Restricted
<b>4. Company/Product (Name)</b> Triclopyr 3 Herbicide	<b>PM#</b> 25	
<b>5. Name and Address of Applicant (Include ZIP Code)</b> Nufarm Americas, Inc. 150 Harvester Drive Suite 200 Burr Ridge, IL 60527  <input type="checkbox"/> Check if this is a new address		<b>6. Expedited Review.</b> In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____  Product Name _____

**Section - II**

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____	<b>NOTIFICATION</b>  <b>OCT 3 U 2009</b>
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.	
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.	

**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)

Label notification per PR notice 98-10, addition of California specific language, see cover letter for detailed explanation. This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statements to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 95-2 and 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

**Section - III**

<b>1. Material This Product Will Be Packaged In:</b>				<b>2. Type of Container:</b>	
<b>Child-Resistant Packaging</b> <input type="checkbox"/> Yes <input type="checkbox"/> No	<b>Unit Packaging</b> <input type="checkbox"/> Yes <input type="checkbox"/> No	<b>Water Soluble Packaging</b> <input type="checkbox"/> Yes <input type="checkbox"/> No			
* Certification must be submitted		If "Yes" Unit Packaging wgt.    No. per container	If "Yes" Package wgt    No. per container	<input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____	
<b>3. Location of Net Contents Information</b> <input type="checkbox"/> Label <input type="checkbox"/> Container		<b>4. Size(s) Retail Container</b>		<b>5. Location of Label Directions</b>	
<b>6. Manner in Which Label is Affixed to Product</b> <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled <input type="checkbox"/> Other _____					

**Section - IV**

<b>1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)</b>		
<b>Name</b> George Meindl (george.meindl@us.nufarm.com)	<b>Title</b> Regulatory Affairs Manager	<b>Telephone No. (Include Area Code)</b> 630.455.2017
<b>Certification:</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		<b>8. Date Application Received (Stamped)</b>
<b>2. Signature</b> 	<b>3. Title</b> Regulatory Affairs Manager	
<b>4. Typed Name</b> George Meindl	<b>5. Date</b> 10/6/2009	



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Nufarm Americas, Inc.  
George Meindl  
Regulatory Affairs Manager  
150 Harvester Drive, Suite 200  
Burr Ridge, IL 60527  
Phone: 630.455-2017 Fax: 630.455.2030  
george.meindl@us.nufarm.com

October 6, 2009

Via Overnight Courier

Document Processing Desk (NOTIF)  
Office of Pesticide Programs (7504P)  
U. S. Environmental Protection Agency  
Room S4900, One Potomac Yard  
2777 S. Crystal Drive  
Arlington, VA 22202

Subject: Triclopyr 3 Herbicide  
EPA Reg. No. 228-520  
Label notification per PR98-10

Dear Ms. Hobgood:

At the specific request of California Department of Pesticide Regulation (CDPR), Nufarm Americas, Inc would like add the following language to the subject product labeling:

**Wind  
(Requirement specific for Rice applications in CA)**

For the protection of sensitive crops, a positive wind flow of at least 3 mph, wind away, from the sensitive crop is recommended. No sensitive crops are to be located within 1 mile downwind from the application site. The maximum wind speed is 10 mph. Do not make aerial applications in winds less than 3 mph or when inversion conditions are present.

Buffer Zones for Aerial Application

Sensitive Crop	Minimum Aerial Buffer Restriction (mile)	
	Wind Away	Wind Towards
All Vegetable Crops	1/4	1
All Tree and Vine Crops	1/4	1
All Other Broadleaf Field Crops	1/4	1

We have discussed this language with CDPR regulatory staff and they have agreed it is acceptable to them. CDPR will not allow this product to remain registered in California without the above CA specific language added.

Since this language was not mandated by the USEPA, we believe this can be added via notification and is consistent with PRN98-10 section II (Labeling



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# TRICLOPYR 3 NOTIFICATION

## Herbicide

OCT 30 2009

FOR CONTROL OF WOODY PLANTS, AQUATIC PLANTS, VINES; AND ANNUAL AND PERENNIAL BROADLEAF WEEDS IN FORESTS, NON-CROP AREAS INCLUDING INDUSTRIAL MANUFACTURING AND STORAGE SITES, RIGHTS-OF-WAY SUCH AS ELECTRICAL POWER LINES, COMMUNICATION LINES, PIPELINES, ROADSIDES, AND RAILROADS, FENCE ROWS, IN NON-IRRIGATION DITCH BANKS, AQUATIC SITES SUCH AS PONDS, LAKES, RESERVOIRS, NON-IRRIGATION CANALS, AND DITCHES WHICH HAVE LITTLE OR NO CONTINUOUS OUTFLOW, AROUND FARM BUILDINGS, CHRISTMAS TREE PLANTATIONS, AND ON RICE.

**ACTIVE INGREDIENT:**

\*Triclopyr: (3,5,6-trichloro-2-pyridinyl)Oxyacetic acid, triethylamine salt. .... 44.4%

**OTHER INGREDIENTS:** ..... 55.6%

**TOTAL** ..... 100.0%

\*Contains 3 pounds of triclopyr acid equivalent per gallon (31.8%)

**KEEP OUT OF REACH OF CHILDREN**  
**DANGER / PELIGRO**

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

EPA REG. NO. 228-520  
EPA EST. NO.

Manufactured For  
NUFARM AMERICAS INC.  
150 Harvester Drive  
Burr Ridge, IL 60527



NET CONTENTS: Gal. ( L)

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**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
DANGER / PELIGRO**

Corrosive. Causes Irreversible Eye Damage. Harmful if absorbed through skin or swallowed. Do not get in eyes or on skin or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Applicators and other handlers who handle this pesticide must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Protective eyewear
- Chemical-resistant gloves (>14 mils) such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**ENGINEERING CONTROLS:** When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4-6), the handler PPE requirements may be reduced or modified as specified in the WPS.

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

<b>FIRST AID</b>	
<b>IF IN EYES</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF ON SKIN OR CLOTHING</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF SWALLOWED</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>

<b>HOT LINE NUMBER</b>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of a Medical Emergency involving this product, call 1-877-325-1840.

<b>NOTE TO APPLICATOR</b>
Allergic skin reaction is not expected from exposure to spray solutions of this product when used as directed.

<b>NOTE TO PHYSICIAN</b>
Probable mucosal damage may contraindicate the use of gastric lavage.

**ENVIRONMENTAL HAZARDS**

For terrestrial uses, do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

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

For aquatic uses, under certain conditions, treatment of aquatic weeds can result in oxygen depletion or loss due to decomposition of dead plants, which may contribute to fish suffocation. This loss can cause fish suffocation. Therefore, to minimize this hazard, do not treat more than one-third to one-half of the water area in a single operation and wait at least 10 to 14 days between treatments. Begin treatment along the shore and proceed outward in bands to allow fish to move into untreated areas. Consult with the State agency for fish and game before applying to public water to determine, if a permit is needed.

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**PHYSICAL OR CHEMICAL HAZARDS**

COMBUSTIBLE. Do not use or store the product near heat or open flame.

**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. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

**AGRICULTURAL USE REQUIREMENTS**

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

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 48 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 (>14 mils) such as butyl rubber, natural rubber, neoprene rubber or nitrile rubber.
- Shoes plus socks
- Protective eyewear

**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.

For applications to non-cropland areas, do not enter or allow others to enter the treated area until sprays have dried.

**GENERAL INFORMATION**

This product is used to control unwanted woody plants; aquatic plants; and annual and perennial broadleaf weeds

- in forest
- in non-crop areas including industrial manufacturing and storage sites
- in rights-of-way such as electrical power lines, communication lines, pipelines, roadsides, and railroads
- in fence rows
- in non-irrigation ditch banks
- in aquatic sites such as ponds, lakes, reservoirs, non-irrigation canals, and ditches which have little or no continuous outflow.
- around farm buildings
- on rice

This product's use on these sites may include application to grazed areas as well as for the establishment and maintenance of wildlife openings.

**GENERAL USE PRECAUTIONS**

- Do not apply this product through any type of irrigation system.
- Do not apply to ditches or canals used to transport irrigation water. It is permissible to treat non-irrigation ditch banks.
- Do not apply where runoff or irrigation water may flow onto agricultural and other than rice fields as injury to crops may result.
- It is permissible to treat non-irrigation ditch banks, seasonally dry wetlands (such as flood plains, deltas, marshes, swamps, or bogs) and transitional areas between upland and lowland sites.
- Do not apply directly to un-impounded rivers or streams. Do not apply to salt water bays or estuaries.
- When making applications to banks or shorelines of moving water sites, minimize overspray to open water.
- Application through a mist blower is not recommended.
- Do not make direct applications or allow spray mists to drift onto cotton; grapes; soybeans; tobacco; vegetable crops; flowers; ornamental shrubs or trees; or other desirable broadleaf plants.
- For range and pasture sites, including rights-of-way, fence rows, or any area where grazing and harvesting is allowed, do not apply more than 2 lb a.e. of triclopyr (2/3 gallon of this product) per acre per year.
- For forestry uses, do not apply more than 6 lb a.e. triclopyr (2 gallons of this product) per acre per year.
- For all terrestrial uses other than rangeland, pasture, forestry sites, and grazed areas, a maximum of 9 lb a.e. of triclopyr (3 gallons of this product) per acre per year may be applied.
- All livestock, except lactating dairy animals, can graze at any time.
- Lactating dairy animals cannot graze forage until the next growing season after application.
- For all livestock, wait 14 days after application before harvesting hay.
- Grazed areas of non-cropland and forestry sites may be spot treated if they comprise no more than 10% of the total grazable area.

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- Withdraw livestock from grazing treated grass or consumption of treated hay at least 3 days before slaughter.
- Arizona: This product has not been approved for use on plants grown for commercial production, specifically forests grown for commercial timber production, or on designated grazing areas.
- Obtain required permits: Consult with appropriate state or local water authorities before applying this product to public waters. State or local public agencies may require permits.

**APPLICATION DIRECTIONS**

**RATES**

This table assists in determining proper volumes of this product in the spray tank to avoid exceeding the maximum use rates using varying spray volumes.

Spray Volume (gal/acre)	MAXIMUM RATE OF THIS PRODUCT		
	Rangeland and Pasture Sites <sup>1</sup> (gal/100 gal of spray)	Forestry Sites <sup>2</sup> (gal/100 gal of spray)	Other Non-Cropland Sites <sup>3</sup> (gal/100 gal of spray)
400	Do not use	0.5	0.75
300	Do not use	0.67	1
200	Do not use	1	1.5
100	0.67	2	3
50	1.33	4	6
40	1.67	5	7.5
30	2.33	6.65	10
20	3.33	10	15
10	6.67	20	30

<sup>1</sup> For range and pasture sites, including rights-of-way, fence rows, or any area where grazing and harvesting is allowed, do not apply more than 2 lb a.e. of triclopyr (2/3 gallon of this product) per acre per year.

<sup>2</sup> For forestry uses, do not apply more than 6 lb a.e. triclopyr ( 2 gallons of this product) per acre per year.

<sup>3</sup> For all terrestrial uses other than rangeland, pasture, forestry sites, and grazed areas, a maximum of 9 lb a.e. of triclopyr (3 gallons of Triclopyr) per acre per year.

**SPRAY ADDITIVES**

All surfactants and drift control agents must be approved for food or feed use when used on food or feed sites.

**Surfactants** – When using surfactants, follow the use directions and precautions listed on the surfactant manufacturer’s label. Use the higher recommended concentrations of surfactant in the spray mixture when applying lower sprayer volumes per acre.

**Drift Control Agents** – Agriculturally approved spray thickening drift control agents or high viscosity invert systems may be used with this product. When using these agents, follow all use directions and precautions on the product label. Do not use a thickening agent with the Microfoil boom, Thru-Valve boom, or other systems that cannot accommodate thick sprays.

**TANK MIXES**

Always refer to labels of other pesticide products for mixing directions and precautions which may differ from those outlined here. Use in accordance with the most restrictive of label limitations and precautions. No label dosage rates may be exceeded. This product cannot be mixed with any product containing a label prohibition against such mixing.

**Tank Mixing Recommendations:**

1. Fill spray tank 1/2 full with water.
2. Add spray thickening agent (if used).
3. Add additional herbicide (if used).
4. Add this product
5. Add surfactant (if used).
6. Fill remainder of spray tank.

If combined with emulsifiable concentrate herbicides, moderate continuous adequate agitation is required.

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## SPRAY DRIFT MANAGEMENT

Avoid injurious drift. Applications should only be made when there is little or no hazard from spray drift. Very small quantities of spray may seriously injure susceptible plants.

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment and weather related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications:

1. The distance of the outer most operating nozzles on the boom must not exceed 3/4 the length of the rotor.
2. Nozzles must always point backward parallel with the air stream and never be pointed downward more than 45 degrees.

Where states have more stringent regulations, they must be observed.

### Aerial Drift Reduction Advisory

Information on Droplet Size: The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversions).

### Controlling Droplet Size:

- Volume - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure - Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- Number of Nozzles - Use the minimum number of nozzles that provide uniform coverage.
- Nozzle Orientation - Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- Nozzle Type - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

**Boom Length:** For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.

**Application Height:** Applications should not be made at a height greater than 10 feet above the top of the largest plants 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.

**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 aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.).

**Wind:** Drift potential is lowest between wind speeds of 2-10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. 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.

**Temperature Inversions:** Applications should not occur during a local, low level 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 common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and 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.

**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).

## APPLICATION EQUIPMENT AND TECHNIQUES

### Broadcast Applications

**Aerial Application** – When making aerial applications on rights-of-way or other areas near susceptible crops, apply through a Microfoil(1) or Thru-Valve(1) boom, or use an agriculturally approved drift control agent. Other drift reducing systems or thickened sprays prepared by using high viscosity inverting systems may be used if they are made as drift-free as are mixtures containing agriculturally approved thickening agents or applications made with the Microfoil or Thru-Valve boom. Keep spray pressures low enough to provide coarse spray droplets. Spray boom should be no longer than 3/4 of the rotor length. Spray only when the wind velocity is low (follow state regulations). Avoid application during air inversions. If a spray thickening agent is use, follow all use recommendations and precautions on the product label.

(1) Note: Reference within this label to equipment produced by or available from other parties is provided without consideration for use by the reader at its discretion and subject to the reader's independent circumstances, evaluation, and expertise. Such reference by Nufarm is not intended as an endorsement of such equipment, shall not constitute a warranty (express or implied) of such equipment, and is not intended to imply that other equipment is not available and equally suitable. Any discussion of methods of use of such EQUIPMENT does not imply that the reader should use the equipment other than is advised in directions available from the equipment's manufacturer. The reader is responsible for exercising their own judgement and expertise, or consulting with sources other than Nufarm, in selecting and determining how to use its equipment.

**Ground Application** – To aid in reducing spray drift, this product should be applied in thickened (high viscosity) spray mixtures using an agriculturally approved drift control additive, high viscosity invert system, or equivalent as directed by the manufacturer. Use of low pressure nozzles; and operating nozzles in the lower end of the manufacturer's recommendations is advised. To minimize drift, keep the spray boom as low as possible, apply in > 20 gallons of spray volume per acre, spray when wind velocities are low, or use an approved drift control agent.

**In Hand Gun Applications**, select the minimum spray pressure that will provide adequate plant coverage (without forming a mist). Do not apply with nozzles that produce a fine droplet spray.

**High Volume Leaf-Stem Treatment:** To minimize spray drift, do not use pressure exceeding 50 PSI as the spray nozzle and keep sprays no higher than brush tops. An agriculturally approved thickening agent may be used to reduce spray drift.

#### APPROVED USES

Refer to Table 1 and 2 which follow, for a list of woody plants and broadleaf weeds that are controlled by this product.

Apply this product at rates of 0.25 to 3 gallons per acre for the control of broadleaf weeds and woody plants. Apply in enough water to provide uniform and complete coverage of the plants to be controlled. Use only water suitable for spraying. Use of an agriculturally approved nonionic surfactant is recommended for all foliar applications. For best results make applications when woody plants and weeds are actively growing.

Use higher rates within the range when brush averages 15 feet or more in height or when brush covers >60% of the area to be treated. Re-sprouting may occur the year following treatment if lower rates are used on hard-to-control species. When easy to control brush species dominate, rates below those recommended may be effective. Consult State or Local Extension personnel for information.

For hard-to-control species such as ash, black gum, choke cherry, elm, maples, oaks, pines, or winged elm; during late summer applications when plants are mature; or during drought conditions; use higher rates of this product alone or use in combination with Tordon 101 Mixture. If lower rates are used on hard-to-control species, re-sprouting may occur in the year following treatment.

When applying this product in a tank mix with 2,4-D 3.8 lb amine, like DMA 41VM, or low volatile ester herbicides, use higher rates of this product for satisfactory brush control.

When tank mixing, refer to the individual product labels for precautionary statements, restrictions, recommended rates, approved uses, and a list of weeds and woody plants controlled.

#### FOLIAGE APPLICATIONS WITH GROUND EQUIPMENT

##### High Volume Foliage Applications

For control of woody plants, apply this product at 1 to 3 gallons per 100 gallons of spray solution. Make applications in 100 to 400 gallons of total spray per acre depending on size and density of woody plants. Coverage should be thorough to wet all leaves, stems, and root collars.

**Tank Mixing:** 1 to 4 quarts of this product may be tank mixed with 1 to 2 quarts of 2,4-D 3.8 lb amine, like DMA 41VM, or low volatile ester or Tordon 101 Mixture diluted to make 100 gallons of spray solution. Make applications in 100 to 400 gallons of total spray per acre depending on size and density of woody plants. When tank mixing, refer to the individual product labels for precautionary statements, restrictions, recommended rates, approved uses, and a list of weeds and woody plants controlled.

Do not exceed maximum allowable use rates per acre. See rate Table in the Rates Section of APPLICATION DIRECTIONS.

##### Low Volume Foliage Applications

For control of woody plants, mix up to 5 gallons of this product in 10 to 100 gallons of spray solution. Adjust the spray concentration of this product and total spray volume per acre to match the size and density of target woody plants and kinds of spray equipment used. With low volume sprays, use sufficient spray volume to obtain uniform coverage of target plants including the surfaces of all foliage, stems, and root collars. For best results, a surfactant should be added to all spray mixtures. See the **SPRAY ADDITIVES** section of **APPLICATION DIRECTIONS**.

Match equipment and delivery rate of spray nozzles to height and density of woody plants. When treating tall, dense brush, a truck mounted spray gun with spray tips that deliver up to 2 gallons per minute at 40 to 60 PSI may be required. Backpack or other types of specialized spray equipment with spray tips that deliver less than 1 gallon of spray per minute may be appropriate for short, low to moderate density brush.

**Tank Mixing:** Up to 3 gallons of this product may be applied tank mix combinations with 2 to 4 quarts of Tordon K or 1 to 2 gallons of Tordon 101 Mixture as a low volume foliar spray. These applications should be made in 10 to 100 gallons of spray solution. When tank mixing, refer to the individual product labels for precautionary statements, restrictions, recommended rates, approved uses, and a list of weeds and woody plants.

#### BROADCAST APPLICATION WITH GROUND EQUIPMENT

Use equipment that will assure thorough and uniform coverage at spray volumes applied. To improve spray coverage, add an agriculturally approved nonionic surfactant. See the **SPRAY ADDITIVES** sections of **APPLICATION DIRECTIONS**. See **Maximum Application Rates Table** in the **APPLICATION DIRECTIONS** for relationship between mixing rate, spray volume, and maximum application rate.

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**Woody Plant Control**

**Foliage Treatment:** Apply 2 to 3 gallons of this product in 20 to 100 gallons of spray solution per acre.

**Tank Mixing:** This product at 2 to 4 quarts per acre may be tank mixed with 1 to 2 gallons of 2,4-D 3.8 lb amine, like DMA 4 IVM, or low volatile esters or Tordon 101 Mixture in 20 to 100 gallons of spray solution per acre. When tank mixing, refer to the individual product labels for precautionary statements, restrictions, recommended rates, approved uses, and a list of weeds and woody plants controlled.

**Broadleaf Weed Control**

Apply 1.3 to 6 quarts of this product in 20 to 100 gallons of spray solution per acre. Apply any time during the growing season.

**Tank Mixing:** This product at 1.3 to 4 quarts per acre may be tank mixed with 2 to 4 quarts of Tordon K; Tordon 101 Mixture, or 2,4-D 3.8 lb amine, like DMA 4 IVM, or low volatile ester to improve the spectrum of activity. When tank mixing, refer to the individual product labels for precautionary statements, restrictions, recommended rates, approved uses, and a list of weeds and woody plants controlled.

**AERIAL APPLICATION (HELICOPTER ONLY)**

Aerial sprays should be applied using suitable drift control. See the Spray Drift Management section for drift control advice. Add an agriculturally approved nonionic surfactant. See the **SPRAY ADDITIVES** and the **APPLICATION EQUIPMENT AND TECHNIQUES** section. See **Maximum Application Rates Table** in the **APPLICATION DIRECTIONS** for relationship between mixing rate, spray volume, and maximum application rate.

**FOLIAGE TREATMENT (RIGHTS-OF-WAY)**

Apply 2/3 gallons of this product per acre alone or in a tank mix with 1 to 1.5 gallons per acre of this product with 1 to 2 gallons of 2,4-D 3.8 lb amine, like DMA 4 IVM, or low volatile esters; or Tordon 101 Mixture. Apply in total spray volume of 10 to 30 gallons per acre.

When tank mixing, refer to the individual product labels for precautionary statements, restrictions, recommended rates, approved uses, and a list of weeds and woody plants controlled.

**FOREST MANAGEMENT APPLICATIONS**

For broadcast applications, apply the recommended rate of this product in 10 to 25 gallons per acre by air on in 10 to 100 gallons per acre by ground. Use sufficient spray volumes to provide thorough plant coverage. To improve spray coverage at volumes less than 50 gallons per acre, add an agriculturally approved nonionic surfactant. See the **SPRAY ADDITIVES** section of **APPLICATION DIRECTIONS**. Use application systems designed to prevent spray drift to off-target sites. Nozzles or additives used for drift minimization that produce larger droplets may require higher spray volumes to provide brush control. See **APPLICATION EQUIPMENT AND TECHNIQUES** section.

**Forest Site Preparation (Not For Conifer Release)**

To control susceptible woody plants and broadleaf weeds, apply up to 2 gallons per acre of this product in a total spray solution of 10 to 30 gallons per acres. This product may be applied at a rate of 1 to 1.5 gallons per acre in a tank mix combination with 1 to 2 gallons of Tordon 101 Mixture or 2,4-D 3.8 lb low volatile ester to broaden the spectrum of woody plants and broadleaf weeds controlled. Use of a nonionic agricultural surfactant is recommended for all foliar applications. See the **SPRAY ADDITIVES** section of **APPLICATION DIRECTIONS**.

Refer to the individual product labels for precautionary statements, restrictions, recommended rates, approved uses, and a list of weeds and woody plants controlled.

**Conifer Plant Back Interval:** Conifer injury may occur if conifers are planted sooner than 1 month after product treatments at rates <1-1/3 gallon per acre; or if conifers are planted sooner than 2 months after treatment with rates of 1-1/3 to 3 gallons per acre. When herbicide tank mixtures are used for forest site preparation, use the longest plant back waiting period recommended on any tank mix partner.

**Directed Spray Applications for Conifer Release**

To release conifers from competing hardwoods such as red maple, sugar maple, striped maple, sweetgum, red and white oaks, ash, hickory, alder, birch, aspen, and pin cherry, mix 1 to 2 gallons of this product in enough water to make 100 gallons of spray mixture. To improve spray coverage, add an agriculturally approved nonionic surfactant. See the **SPRAY ADDITIVES** section of **APPLICATION DIRECTIONS**.

Direct the spray onto foliage of competitive hardwoods using knapsack or backpack sprayers with flat fan nozzles or equivalent. Make applications any time after the hardwoods have reached full leaf size, but before autumn coloration. The majority of treated hardwoods should be less than 6 feet in height to ensure adequate spray coverage. Care should be taken to direct the spray solution away from conifer foliage, particularly foliage of desirable pines.

**Conifer Release Applications:** Spray may cause temporary damage and growth suppression of conifers where direct contact occurs; however, injured conifers should recover and grow normally. **Over-the-top spray applications can kill pines.**

**Broadcast Application for Conifer Release in the Northeastern United States**

To release spruce, fir, red pine, and white pine from competing hardwoods such as red maple, sugar maple, striped maple, alder, birch (white, yellow, and grey), aspen, ash, pin cherry, and *Rubus* spp. and perennial and annual broadleaf weeds, apply this product at 2 to 4 quarts per acre alone or in a tank mix with 2,4-D amine, like DMA 4 IVM, or 2,4-D low volatile ester. Apply no more than 4 pounds acid equivalent per acre from the combined products. Make applications in late summer or early fall after conifers have formed their over-wintering buds; and hardwoods are in full leaf prior to autumn coloration.

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**Broadcast Applications for Douglas Fir Release in the Pacific Northwest and California**

To release Douglas fir from competing vegetation such as broadleaf weeds, alder, blackberry or Scotch broom, apply this product at 1-1/3 to 2 quarts per acre alone or in combination with 4 lb per acre of atrazine. Add a nonionic surfactant to the spray solution. See the **SPRAY ADDITIVES** section of **APPLICATION DIRECTIONS**. Applications should be made in early spring after hardwoods begin growth and before Douglas fir bud break ("early foliar" hardwood stage). Applications can also be made in late summer, after Douglas fir seasonal growth has "hardened off" (winter bud set). Make applications while hardwoods are still actively growing. When treating after Douglas fir winter bud set, apply prior to onset of hardwood autumn coloration.

**Note:** Treatments applied during active Douglas fir shoot growth (after spring bud break and prior to winter bud set), may cause injury to Douglas fir trees.

**Cut Surface Treatments**

To control hardwood unwanted species such as elm, maple, oak; and conifers in rights-of-way and other noncrop areas, apply this product, either undiluted or diluted in a 1:1 ratio with water by one of the following methods:

**Tree Injector Method:** Inject 1/2 milliliter (ml) of undiluted product or 1 ml of the diluted (1:1) solution through the bark at intervals of 3-4 inches between injection wounds. The tree injections should completely surround the tree at any convenient height.

**Note:** Worker Protection Standard **AGRICULTURAL USE REQUIREMENTS** reentry restrictions do not apply for this application method. Refer to the **NONAGRICULTURAL USE REQUIREMENTS** box.

**Hack and Squirt Method:** Use a hatchet or similar equipment to make cuts in the bark at intervals of 3-4 inches at a convenient height around the circumference of the tree trunk. Spray 1/2 milliliter (ml) of undiluted product or 1 ml of the diluted (1:1) solution into each cut.

**Frill or Girdle Method:** Make a single girdle through the bark completely around the tree at a convenient height. Wet the cut surface with undiluted product or the diluted (1:1) solution.

Both the **Hack and Squirt Method**; and the **Frill or Girdle Method** may be successfully used during any season except during periods of heavy sap flow of certain species such as maples.

**Stump Treatment:** Spray or paint undiluted product on to the freshly cut surfaces of cut stumps and stubs. The cambium area next to the bark is the most vital area to wet.

**TABLE 1  
WOODY PLANTS CONTROLLED BY THIS PRODUCT**

Alder	Chinquapin	Maleleuca (seedlings)	Sweetbay Magnolia
Arrowwood	Choke Cherry	Maples	Sweet Gum
Ash	Cottonwood	Mulberry	Sycamore
Aspen	Crataegus (hawthorn)	Oaks	Tan Oak
Bear Clover (Bearmat)	Dogwood	Persimmon	Thimbleberry
Beech	Douglas fir	Pine	Tulip Poplar
Birch	Elderberry	Poison Ivy	Wax Myrtle
Blackberry	Elm	Poison Oak	Western Hemlock
Black gum	Gallberry	Poplar	Wild Rose
Brazilian Pepper	Hazel	Salmonberry	Willow
Cascara	Hornbeam	Salt-bush (Braccharis spp)	Winged elm
Ceanothus	Kudzu <sup>1</sup>	Sassafras	
Cherry	Locust	Scotch Broom	
Chinese Tallow	Madrone	Sumac	

<sup>1</sup>For complete control, retreatment may be necessary.

**TABLE 2  
ANNUAL AND PERENNIAL BROADLEAF WEEDS CONTROLLED BY THIS PRODUCT**

Bindweed	Dandelion	Plantain	Tropical Sodaapple
Burdock	Elephant Ear	Purple Loosestrife	Vetch
Canada Thistle	Field Bindweed	Ragweed	Wild Lettuce
Chickory	Lambsquarter	Smartweed	
Curly Dock	Ligodium	Tansy Ragwort	

**WETLAND SITES IN PRODUCTION FORESTS AND INDUSTRIAL NON-CROP AREAS**

This product may be used in wetlands within forests; wildlife habitat restoration, wildlife management areas, and industrial non-crop sites; as well as areas adjacent to or surrounding domestic water supply reservoirs, lakes and ponds to control target vegetation in and around standing water sites, such as flood plains, delta, marshes, wetlands, swamps, bogs, and transitional areas between upland and lowland sites, and the banks of ponds and lakes and transition areas between upland and lowland sites.

For control of woody plants and broadleaf weeds in these sites, follow use directions and application methods on this label for **Forest Management Applications**. Refer to Tables 1 and 2 (above) for lists of woody plants and broadleaf weeds that are controlled by this product.

**General Use Precautions for Wetland Sites**

- Refer to the **General Use Precautions** section for additional precautions.
- Minimize overspray to open water when treating target vegetation in and around nonflowing, quiescent or transient water. When making applications to control unwanted plants on banks or shorelines of flowing water, minimize over spray to open water.

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- **Obtain Required Permits:** Before applying this product in and around public water, consult appropriate local public water control authorities. Permits may be required to treat such areas.
- **Recreational Use of Water in the Treatment Area:** There are no restrictions on water use in the treatment area for recreational purposes, including swimming and fishing.
- **Livestock Use of Water from Treatment Area:** There are no restrictions on consumption of water from treated areas by livestock.

**Purple Loosestrife (*Lythrum salicaria*)**

Purple loosestrife can be controlled with broadcast foliar applications of this product at a minimum of 6 to 8 quarts per acre. Apply when purple loosestrife is at the bud to midflowering stage of growth. Follow-up applications for control of regrowth should be made the following year to achieve increased control of this weed species. For all applications, add a nonionic surfactant labeled for aquatics to the spray mixture. Follow all directions and use precautions on the surfactant label.

Thorough wetting of the foliage and stems is necessary to achieve satisfactory control. A minimum spray volume of 50 gallons per acre is recommended for ground broadcast applications.

For backpack applications, a spray solution of 1 to 1.5% of this product (5 to 7.6 fl oz of this product per 4 gallons of water) should be used. All purple loosestrife plants should be thoroughly wetted.

Aerial application by helicopter may be needed when treating restoration sites that are inaccessible, remote, difficult to traverse, isolated, or otherwise unsuited to ground application, or in circumstances where invasive exotic weeds dominate native plants populations over extensive areas and efforts to restore native plant diversity are being conducted. By air, apply in a minimum spray volume of 30 gallons per acre using Thru-Valve or Microfoil boom only.

**Terrestrial Sites Associated with Wetland Areas**

Refer to Tables 1 and 2 (above) for a list of woody plants and broadleaf weeds that are controlled by this product.

Apply this product at rates of 0.25 to 2 gallons per acre for the control of broadleaf weeds and woody plants. Apply in enough water to provide uniform and complete coverage of the plants to be controlled. Use only water suitable for spraying. Use of an agriculturally approved nonionic surfactant is recommended for all foliar applications. Refer to **Spray Additives** in the **APPLICATION DIRECTIONS** section. Refer to **Tank Mixing Recommendations** section for the order of addition of surfactants. For best results make applications when woody plants and weeds are actively growing.

Use higher rates within the range when brush averages 15 feet or more in height or when brush covers >60% of the area to be treated. Re-sprouting may occur the year following treatment if lower rates are used on hard-to-control species.

For hard-to-control species such as ash, black gum, choke cherry, maples, or oaks; during late summer applications when plants are mature; or during drought conditions; use higher rates of this product alone or use in combination with a 2,4-D approved for aquatic use, such as DMA 4 IVM, generally the higher rates should be used for satisfactory brush control. When tank mixing, refer to the individual product labels for precautionary statements, restrictions, recommended rates, approved uses, and a list of weeds and woody plants controlled.

**General Use Precautions for Wetland Sites**

- Refer to the **General Use Precautions** section for additional precautions.
- If applied to areas where livestock will graze, including rights-of-way or fence rows do not apply more than 2/3 gallon of this product per acre per year.
- For forestry uses, DO NOT apply more than 2 gallons of this product per acre per year.

**High Volume Foliage Applications**

For control of woody plants, apply this product at 1 to 2 gallons per 100 gallons of spray solution. Make applications in 100 to 400 gallons of total spray per acre depending on size and density of woody plants. Coverage should be thorough to wet all leaves, stems, and root collars.

**Tank Mixing:** 1 to 4 quarts of this product may be tank mixed with 1 to 2 quarts of 2, 4-D 3.8 lb amine, like DMA 4 IVM, diluted to make 100 gallons of spray solution. Make applications in 100 to 400 gallons of total spray per acre depending on size and density of woody plants. When tank mixing, refer to the individual product labels for precautionary statements, restrictions, recommended rates, approved uses, and a list of weeds and woody plants controlled.

**Low Volume Foliage Applications**

For control of woody plants, mix up to 5 gallons of this product in 10 to 100 gallons of spray solution. Adjust the spray concentration of this product and total spray volume per acre to match the size and density of target woody plants and kinds of spray equipment used. With low volume sprays, use sufficient spray volume to obtain uniform coverage of target plants including the surfaces of all foliage, stems, and root collars. For best results, a labeled aquatic surfactant should be added to all spray mixtures.

Match equipment and delivery rate of spray nozzles to height and density of woody plants. When treating tall, dense brush, a truck mounted spray gun with spray tips that deliver up to 2 gallons per minute at 40 to 60 PSI may be required. Backpack or other types of specialized spray equipment with spray tips that deliver less than 1 gallon of spray per minute may be appropriate for short, low to moderate density brush.

**Cut Surface Treatments (Woody Plants)**

To control unwanted trees and other listed woody plants in Table 1 (above), apply this product, either undiluted or diluted in a 1:1 ratio with water by one of the following methods:

**Tree Injector Method:** Inject 1/2 milliliter (ml) of undiluted product or 1 ml of the diluted (1:1) solution through the bark at intervals of 3-4 inches between injection wounds. The tree injections should completely surround the tree at any convenient height.

**Note:** Worker Protection Standard **AGRICULTURAL USE REQUIREMENTS** reentry restrictions do not apply for this application method. Refer to the **NONAGRICULTURAL USE REQUIREMENTS** box.

**Hack and Squirt Method:** Use a hatchet or similar equipment to make cuts in the bark at intervals of 3-4 inches at a convenient height around the circumference of the tree trunk. Spray 1/2 milliliter (ml) of undiluted product or 1 ml of the diluted (1:1) solution into each cut.

**Frill or Girdle Method:** Make a single girdle through the bark completely around the tree at a convenient height. Wet the cut surface with undiluted product or the diluted (1:1) solution.

Both the **Hack and Squirt Method** and the **Frill or Girdle Method** may be successfully used during any season except during periods of heavy sap flow of certain species such as maples.

**Stump Treatment:** Spray or paint undiluted product on to the freshly cut surfaces of cut stumps and stubs. The cambium area next to the bark is the most vital area to wet.

### CHRISTMAS TREE PLANTATIONS

This product is used to control unwanted woody plants and annual and perennial broadleaf weeds in established Christmas tree plantations. For best results, make applications when woody plants and weeds are actively growing. This product only controls weeds which are emerged at the time of application.

Brush >8 feet tall is difficult to treat efficiently using hand equipment such as backpack or knapsack sprayers. Use higher rates of this product or use cut surface application methods when treating large brush or trees; hard to control species such as ash, black gum, choke cherry, elm, hazel, madrone, maples, oaks or sweetgum; for applications made during drought conditions; or late summer applications when the leaves are mature. For foliar applications, apply in enough water to provide uniform and complete coverage of the plants to be controlled. Applications made under drought conditions may provide less than desirable results. Re-sprouting may occur the year following treatment if lower rates are used on hard-to-control species.

#### GENERAL USE PRECAUTIONS FOR CHRISTMAS TREE PLANTATIONS

- **Do not tank mix with 2,4-D for use in Christmas tree plantations.**
- Only apply this product to established Christmas trees that have been planted at least one full year prior to application.
- To prevent Christmas tree injury, take care to direct spray away from Christmas tree foliage to avoid contact.
- Do not use on newly seeded grass until well established as indicated by vigorous growth and development of secondary root system and tillering.
- Mow newly seeded turf (alleyways, etc.) two or three times before treatment with this product.
- Do not reseed Triclopyr 3 treated Christmas tree areas within three weeks after application.
- Do not use this product if legumes, such as clover, are present and injury cannot be tolerated.

#### Spray Solution Preparation

Refer to the **TANK MIXES** section of for order of addition to the spray tank. Continue moderate agitation while mixing and spraying. Use of a nonionic agricultural surfactant is recommended for all applications. See the **SPRAY ADDITIVES** section of **APPLICATION DIRECTIONS** for surfactant recommendations.

#### Application

Make applications in late summer or early autumn after terminal growth of Christmas trees has hardened of, but before leaf drop of target plants. Apply 2 to 5 pints per acre of this product as a foliar spray directed toward the base of Christmas trees. Use sufficient spray volume (20 to 100 gallons per acre) to provide uniform coverage of target plants. Recommended application rates of this product (see Table 3, below) will only suppress some well established woody plants that are 2 to 3 years old. Broadcast sprays may also be applied in bands between the rows of planted trees. Select spray equipment that will provide uniform coverage at the desired spray volume.

Triclopyr 3 spray solution can cause Christmas tree needle and branch injury. To minimize Christmas tree injury, direct sprays to minimize Christmas tree foliage contact. White pine and Douglas fir are more susceptible to injury than blue spruce, white spruce, balsam fir and frasier fir. Refer to the **General Use Precautions for Christmas Tree Plantations**.

#### Directed Applications

For control of hardwoods such as red maple, sugar maple, striped maple, sweetgum, red and white oaks, ash, alder, birch, aspen, and pin cherry; mix 4 to 20 fluid ounces of this product in enough water to make 3 gallons of spray solution. For directed applications, do not exceed 2 gallons of this product per acre per year. To improve coverage, add a nonionic agricultural surfactant to the spray. See the **SPRAY ADDITIVES** section of **APPLICATION DIRECTIONS** for surfactant recommendations. Direct this spray mixture onto foliage of competitive hardwoods using knapsack or backpack sprayers with flat fan (or equivalent) nozzles any time after hardwoods have reached full leaf size, but before autumn coloration (when plants are actively growing). The majority of treated hardwoods should be <8 feet in height to ensure adequate spray coverage.

#### Cut Surface Treatments

Use cut surface treatments when treating large brush and trees; hard to control species such as ash, blackgum, choke cherry, elm, hazel, madrone, maples, oaks or sweetgum; for applications during drought conditions; or for late summer applications when the leaves are mature. Refer to the Cut Surface Treatments in the Forest Management section for use directions.

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**CHRISTMAS TREE PLANTATION  
APPLICATION RATES AND SPECIES CONTROLLED**

TRICLOPYR 3		
2 pints per acre	3 to 4 pints per acre	5 pints per acre
Clover	Bindweed, Field <sup>1</sup>	Arrowwood <sup>4</sup>
Dandelion	Blackberry <sup>2</sup>	Aspen
Dock, Curly	Chicory <sup>3</sup>	Beech <sup>4</sup>
Lambsquarter	Fireweed	Birch <sup>4</sup>
Lespedeza	Ivy, Ground	Chinquapin
Plantain, Broadleaf	Lettuce, Wild	Cottonwood <sup>4</sup>
Plantain, Buckhorn	Oxalis	Elderberry
Ragweed, Common	Poison Ivy	Grape, Wild
Vetch	Smartweed <sup>1</sup>	Mulberry <sup>4</sup>
	Thistle, Canada <sup>1</sup>	Poplar <sup>4</sup>
	Violet, Wild	Sassafras <sup>4</sup>
	Virginia Creeper <sup>2</sup>	Sumac <sup>4</sup>
		Sycamore <sup>4</sup>

<sup>1</sup> Top growth control, retreatment may be necessary

<sup>2</sup> Use 4 pints per acre.

<sup>3</sup> Suppression

<sup>4</sup> Seedlings less than 2-3 years old

**AQUATIC SITES – RICE**

This product is a postemergence systemic herbicide for the control of certain broadleaf weeds in rice (including ratoon rice). This product controls broadleaf weeds through foliar uptake; therefore, thorough coverage of target weeds is important. DO NOT apply under conditions which would allow spray drift to come in contact with adjacent broadleaf crops as crop injury may occur.

**General Use Precautions for Rice**

- Refer to the **General Use Precautions** section for additional precautions.
- Apply this product to rice only as directed on this label. Do not apply to any other crops.
- Do not apply this product to upland (nonflooded) rice.
- Direct application to ditches used to transport irrigation water is prohibited.
- Do not apply this product prior to the 2 to 3-leaf stage or after the 1/2" internode elongating stage of rice development (see the **Application Timing** and **Water Management** sections for more detail). Do not apply in the booting or subsequent stages of rice development.
- Do not apply within 60 days before harvesting rice.
- Do not apply more than 0.375 lb ae of this product (1 pint per acre Triclopyr 3) in a single application. Do not make more than two applications or apply more than 0.75 lb ae of this product (2 pints Triclopyr 3) per acre during the growing season. Applications made after rice is planted must be at least 20 days apart.
- Do not apply less than 20 days prior to draining the field, unless the water is contained within a tailwater recovery system, or other system appropriate for preventing discharge from rice fields. Water discharge is permitted 20 days following the last product application within the system.
- **Application to fields which have been leveled (except water leveling) within 12 months prior to application may result in serious rice injury in areas that have been cut or filled.**
- Do not plant rotational crops other than rice for 4 months following treatment.
- Do not fish or commercially grow fish, shellfish or crustaceans on treated acres within 12 months of treatment.
- Do not apply this product with 32% liquid nitrogen fertilizer or zinc fertilizer.
- Do not apply this product following application of Whip herbicides, except in California where this product may be applied 14 days after application of Whip.
- Use of this product on rice grown in the state of New York is prohibited.

### TANK MIXES FOR RICE

The recommended order of addition to the spray tank is as follows:

#### Tank Mixing Recommendations

1. Fill spray tank 1/2 full with water.
2. Add drift control agent (if used).
3. Add additional herbicide (if used).
4. Add this product.
5. Fill remainder of spray tank with water.
6. Add nonionic surfactant or crop oil concentrate (if used) last unless specified otherwise on the surfactant or crop oil concentrate label.

If combined with emulsifiable concentrate herbicides, moderate continuous adequate agitation is required. When tank mixing, refer to the individual product labels for precautionary statements, restrictions, recommended rates, approved uses, and a list of weeds controlled.

### SURFACTANTS – RICE

Use a nonionic agriculturally approved surfactant or a crop oil concentrate (COC) with this product for best broadleaf weed control in rice. Apply 0.25 to 0.5% surfactant by volume (2 to 4 pints per 100 gallons of spray solution); or 1% COC by volume (8 pints per 100 gallons of spray solution), unless otherwise directed on the surfactant or COC label. Read and follow all use directions and precautions on the surfactant or COC label.

### APPLICATION DIRECTIONS – RICE

#### Aerial Application

Apply this product as a broadcast application in a minimum of 5 gallons of spray solution per acre, except where state regulations specify a higher minimum spray volume. For post-flood applications or when foliage is dense, apply 5 to 10 gallons per acre to ensure uniform coverage. Apply at a height which provides the most effective swath width for the aircraft. Fixed wing aircraft or helicopters should have a well-designed spray system that produces a uniform spray pattern and minimizes spray drift.

#### Wind

##### (Requirement specific for application in CA)

For the protection of sensitive crops, a positive wind flow of at least 3 mph, wind away, from the sensitive crop is recommended. No sensitive crops are to be located within 1 mile downwind from the application site. The maximum wind speed is 10 mph. Do not make aerial applications in winds less than 3 mph or when inversion conditions are present.

#### Buffer Zones for Aerial Application

Sensitive Crop	Minimum Aerial Buffer Restriction (mile)	
	Wind Away	Wind Towards
All Vegetable Crops	1/4	1
All Tree and Vine Crops	1/4	1
All Other Broadleaf Field Crops	1/4	1

#### Ground Application

Apply this product as a broadcast application in a minimum of 10 gallons of spray solution per acre. Flat fan nozzles are recommended. Utilize a well-designed spray system that produces a uniform spray pattern and minimizes spray drift.

#### Avoid Spray Drift

Make applications only when there is little or no hazard from spray drift. Small quantities of spray, which may not be visible, may seriously injure susceptible plants. **Do not** spray when wind is blowing toward susceptible crops or ornamental plants that are near enough to be injured. Refer to the **Spray Drift Management** section for advice on how to minimize drift.

#### Application Timing – Rice

Apply this product as a preplant burndown treatment prior to the planting of rice; or to newly seeded rice; or to ratoon rice following harvest of the first crop.

For the **Preplant Burndown** treatment, apply this product at least 21 days before planting dry seeded rice. Apply this product 14 days before planting water seeded rice.

For the application to **Newly Seeded Rice**, apply from the 2 to 3-leaf stage up to the 1/2" internode elongation stage of rice development. Two applications can be made during this stage, but must be at least 20 days apart. (see the **Water Management** section).

Application of this product to **Ratoon Rice** may be made within two weeks following harvest of the first crop for control of susceptible broadleaf weeds.

**Note:** Rice is most tolerant to postemergence applications of this product from the 2 to 3-leaf stage to the 1/2" internode elongation stage of rice development. Postemergence applications of the higher rates of this product may result in temporary rice injury that appears as leaf chlorosis or stunting. Rice will normally recover from these symptoms in two to four weeks. Treatments applied after the 1/2" internode elongation stage may result in increased rice injury. **Do not apply in the booting or subsequent stages of rice development.**

**WATER MANAGEMENT**

**Pre-flood Application:** For pre-flood applications, rice should be in the 2 to 3-leaf stage or larger. A shallow flood may be applied no sooner than 72 hours following application of this product. If the weeds are drought stressed, flush the field before applying this product so that weeds are actively growing at time of treatment.

**Post-flood Application:** For post-flood applications, apply when weeds are well emerged above the water surface. Weeds submerged at the time of application will not be controlled. If water level is dropped to expose weeds prior to application, do not raise water level for at least 48 hours after application. Insure the growing points of rice plants at the soil surface (crown) are covered with water at the time of application.

**Water Seeded Rice:** In water seeded rice, do not apply before the 3 to 4-leaf stage or after the 1/2" internode elongation stage of rice development.

**Tolerance of Rice Varieties:** Use this product on all rice varieties except the variety "Millie" when grown in the state of Louisiana. Because new rice varieties are frequently introduced, tolerance of a newly introduced rice variety to this product should be checked before treating large areas.

**Application Rates and Weeds Controlled in Rice with this product Alone**

This product should be applied to actively growing weeds at a rate of 10.7 to 16 fluid ounces per acre with a nonionic surfactant at 0.25 to 0.5% by volume or with crop oil concentrate at 1% by volume (see Surfactants – Rice). Apply 16 fluid ounces of this product to control difficult to control species, when broadleaf weeds are large, or in post-flood applications.

**WEEDS CONTROLLED IN RICE**

Weed Species	Rate per Acre	Application Timing and Remarks
Cocklebur, Common Jointvetch spp. <sup>1</sup> Morningglory spp. <sup>2</sup>	10.7 to 16 fluid ounces	Best control is achieved with applications prior to weed flowering. Weeds larger than 24 inches in size may not be adequately controlled. Make post-flood applications when weeds are well emerged above the water surface. Weeds submerged at application will not be controlled.
Alligatorweed Dayflower Eclipta Hemp sesbania Redstem Rice flatsedge <sup>3</sup> Sicklepod Texasweed/Mexicanweed Water Hysopp Ricefield bulrush	16 fluid ounces	

<sup>1</sup>Jointvetch species are most susceptible from 10 inches to flowering stage of growth.

<sup>2</sup>Apply 16 fluid ounces per acre when morningglory runners greater than 6 inches.

<sup>3</sup>Treat rice flatsedge when less than 4 inches tall

**TIMING AND WATER MANAGEMENT FOR PRE-FLOOD APPLICATION IN DRILL-SEEDED RICE**

Application Rates	Drill-Seeded Rice – Pre-Flood Application		
	Rice Growth Stage		Water Management
	2-leaf	3 to 4-leaf	Wait Period Between Application and Flooding
<b>Triclopyr 3 Alone</b>			
8 fluid ounces	No	No	--
10.7 fluid ounces	No	Yes	72 hours
16 fluid ounces	No	Yes	72 hours
<b>Triclopyr 3 plus Arrosolo or Propanil</b>			
8 fluid ounces	Yes	Yes	72 hours
10.7 fluid ounces	No	Yes	72 hours

**Tank Mix Recommendations**

This product may be tank mixed with several rice herbicides for broad spectrum weed control in rice. Only use tank mix applications when the rice is well established and in the recommended growth stage for this product and the recommended tank mix product. For best results, weed species should also be in the proper stage of growth for all tank mix partners. When tank mixing, refer to the individual product labels for precautionary statements, restrictions, recommended rates, approved uses, and a list of weeds controlled.

**Pre-flood Application Tank Mix with Propanil Herbicides** – This product may be tank mixed with propanil herbicides in a pre-flood application to control grass and broadleaf species. Apply 8 to 10.7 fluid ounces of this product plus 3 to 4 pounds ai/acre of propanil

herbicide. **DO NOT** add a surfactant or crop oil concentrate when using propanil herbicides formulated as emulsifiable concentrates. A nonionic surfactant at 0.25% by volume is recommended when using propanil herbicides formulated as dry products or as flowables.

**Pre-flood Application Tank Mix with Arrosolo Herbicides** – This product may be tank mixed with liquid Arrosolo herbicide in a pre-flood application to control grass and broadleaf weed species. Apply 8 to 10.7 fluid ounces per acre of this product plus 3 to 4 quarts per acre of Arrosolo herbicide. **Do not** add a surfactant or crop oil concentrate to this tank mix.

**Post-Flood Application Tank Mix with Propanil Herbicide** – This product may be tank mixed with propanil herbicides in a post-flood application to control grass and broadleaf weed species. Apply 8 to 10.7 fluid ounces per acre of this product plus 1 to 4 pounds ai/acre of the propanil herbicide. Do not add a surfactant or crop oil concentrate when using propanil herbicides formulated as emulsifiable concentrates. A nonionic surfactant at 0.25% by volume is recommended when using propanil herbicides formulated as dry products or as flowables. When using the 1 pound ai/acre rate of propanil with this product, use only the liquid propanil herbicide formulation.

**Weeded Seeded Rice:** This product may be tank mixed with liquid Arrosolo herbicide in a post-flood application to water seeded rice to control grass and broadleaf weeds. Apply 8 to 10.7 fluid ounces per acre of this product plus 3 to 4 quarts per acre of Arrosolo herbicide.

### AQUATIC SITES – OTHER THAN RICE

This product can be used to control emerged, submersed, and floating aquatic plants in aquatic sites such as ponds, lakes, reservoirs, non-irrigation canals, and ditches (with little or no continuous outflow), marshes, and wetlands. This product can also be used to control broadleaf and woody vegetation on banks and shores within or adjacent to these and other aquatic sites.

#### AQUATIC WEEDS CONTROLLED BY THIS PRODUCT

Alligatorweed	Milfoil species	Purple loosestrife
American lotus	Nuphar (spatterdock)	Waterhyacinth
American frogbit	Parrotfeather <sup>1</sup>	Waterlilly
Aquatic sodapple	Pickereelweed	Waterprimrose
Eurasian watermilfoil	Pennywort	

<sup>1</sup>Retreatment may be needed to achieve desired level of control

#### GENERAL USE PRECAUTIONS FOR AQUATIC SITES

- Refer to the **General Use Precautions** section for additional precautions.
- **Obtain Required Permits:** Before applying this product to public waters, consult with appropriate state or local water authorities. State or local agencies may require permits.
- Do not use treated water for irrigation for 120 days following application. As an alternative to waiting 120 days, treated water may be used for irrigation once the triclopyr level in the intake water is determined to be non-detectable by laboratory analysis (immunoassay). There is no restriction on use of water from the treatment area to irrigate established grasses.
- **Recreational Use of Water in the Treatment Area** – There are no restrictions on water use in the treatment area for recreational purposes, including swimming and fishing.
- **Livestock Use of Water from Treatment Area** – There are no restrictions on consumption of water from treated areas by livestock.

#### FLOATING AND EMERGED AQUATIC WEEDS

**Surface Application:** Use a spray boom, handgun or other similar suitable equipment mounted on a boat or vehicle. Thorough wetting of foliage is essential for maximum effectiveness. Use 20 to 200 gallons per acre of spray mixture. Special precautions such as the use of low spray pressure, large droplet producing nozzles or addition of a labeled thickening agent may minimize spray drift in areas near sensitive crops.

**Aerial Application (Helicopter only):** Apply using a Microfoil or Thru-Valve boom, or a drift control additive in the spray solution. Apply in a minimum of 10 gallons of total spray solution per acre. Do not apply when weather conditions favor drift to sensitive areas. See the **Spray Drift Management** section for drift control advice.

Apply 0.5 to 2 gallons of this product per acre as a foliar application for control of waterhyacinth, alligatorweed (see specific directions below), and other susceptible emerged and floating herbaceous weeds and woody plants. Make applications using surface or aerial equipment. Use higher rates in the rate range when plants are mature, when the weed mass is dense, or for difficult to control species. Repeat treatments may be necessary to control regrowth and weeds which escaped spray, but do not apply more than 2 gallons of this product per acre per annual growing season. Make applications when plants are actively growing.

Use of nonionic surfactant in the spray solution is recommended to improve control. Follow all directions and use precautions on the aquatic surfactant label.

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**FLOATING AND EMERGED WEED CONTROL – TRICLOPYR 3 RATES**

Weed Species	Scientific Name	Gallons Per Acre	Application Timing and Remarks
Waterhyacinth	Eichhornia crassipes	0.5 – 2	Apply when plants are actively growing. Use the higher rate when the weed mass is dense. Thoroughly wet all foliage. Repeat treatments may be needed to control regrowth or escaped plants.
Alligatorweed	Alternanthera philoxeroides	0.75 – 2	Thoroughly wet all foliage. Weeds growing outside the margins of a body of water can be controlled. Alligatorweed growing in water will be only partially controlled. Top growth above water will be controlled, but plants will likely regrow from underwater tissue. Use a nonionic aquatic surfactant for best results.

**POTABLE WATER INTAKE SETBACKS FOR CONTROL OF FLOATING AND EMERGED WEEDS – LAKES, RESERVOIRS, OR PONDS**

Minimum setback distances from functioning potable water intakes for human consumption for the application of this product must be observed when controlling floating and emerged weeds in lakes, reservoirs or ponds. These setback restrictions do not apply to terrestrial applications made adjacent to potable water intakes. Existing potable water intakes which are no longer in use are not considered to be functioning and these setback restrictions do not apply. Examples of this would be potable water intakes replaced by potable water wells or connections to a municipal water system.

The following table provides minimum setback distances based on the product rate and the area treated for floating and emerged weed control.

**POTABLE WATER INTAKE SETBACK DISTANCES FOR APPLICATION OF THIS PRODUCT FOR CONTROL OF FLOATING AND EMERGED WEEDS IN LAKES, RESERVOIRS, OR PONDS**

Minium Setback Distances (feet)				
Area Treated (acres)	Triclopyr 3 Rate (quarts/acre)			
	2	4	6	8
<4	0	200	400	500
>4 to 8	0	200	700	900
>8 to 16	0	200	700	1000
>16	0	200	900	1300

This product can be applied around functioning potable water intakes or closer than these setback distances as long as the intake is turned off until the level of triclopyr in the intake water is determined to be less than or equal to 0.4 parts per million (ppm) as determined by laboratory analysis or immunoassay.

**SUBMERGED WEEDS – CONTROL OF EURASIAN WATERMILFOIL AND OTHER SUSCEPTIBLE SPECIES**

**Subsurface Application:** This product can be applied directly into the water through boat-mounted distribution systems. Subsurface application may be desirable near areas of susceptible crops or other desirable broadleaf plants to avoid spray drift. Refer to Table \_\_\_\_\_ to determine the desired amount.

**Surface Application:** This product can be applied either as a concentrate or as a spray solution diluted in water. Use a minimum spray volume of 5 gallons per acre. Do not apply when weather conditions favor drift to sensitive areas. See the **Spray Drift Management** section for drift control advice.

Apply 0.75 to 2.5 PPM acid (ae) of this product for control of Eurasian watermilfoil (*Myriophyllum spicatum*) and other susceptible submerged weeds in ponds, lakes, reservoirs, and in non-irrigation canals or ditches that have little or no continuous outflow. Make applications using surface or subsurface application. Use higher rates within the rate range in areas of greater water exchange. Repeat treatments may be necessary, but do not apply more than 2.5 PPM acid equivalent of this product per acre per annual growing season. Refer to following table to determine the desire amount.

Make applications in spring or early summer when Eurasian watermilfoil or other submersed weeds are actively growing.

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TRICLOPYR 3 RATES FOR CONTROL OF SUBMERGED WEEDS IN PONDS,  
LAKES, RESERVOIRS, AND IN NON-IRRIGATION CANALS OR DITCHES

Concentration of Triclopyr Acid Equivalent in Water (PPM ae)					
Water Depth (feet)	Triclopyr 3 Gallons per Surface Arce at Specified Depth				
	0.75 ppm	1 ppm	1.5 ppm	2 ppm	2.5 ppm
1	0.7	0.9	1.4	1.8	2.3
2	1.4	1.8	3.3	3.6	4.6
3	2.1	2.9	4.1	5.4	6.8
4	2.7	3.6	5.4	7.2	9.1
5	3.4	4.5	6.8	9.0	11.3
6	4.1	5.4	8.1	10.9	13.6
7	4.8	6.3	9.5	12.7	15.8
8	5.5	7.2	10.9	14.5	18.1
9	6.1	8.1	12.2	16.3	20.4
10	6.8	9.0	13.6	18.1	22.6
15	10.2	13.6	20.4	27.2	33.9
20	13.6	18.1	27.2	36.2	45.3

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**POTABLE WATER INTAKE SETBACKS FOR CONTROL OF SUBMERGED WEEDS – LAKES, RESERVOIRS, OR PONDS**

Minimum setback distances from functioning potable water intakes for human consumption for the application of this product must be observed when controlling submerged weeds in lakes, reservoirs or ponds. These setback restrictions do not apply to terrestrial applications made adjacent to potable water intakes. Existing potable water intakes which are no longer in use are not considered to be functioning and these setback restrictions do not apply. Examples of this would be potable water intakes replaced by potable water wells or connections to a municipal water system.

The following table provides the minimum setback distances based on the product rate and the area treated for submerged weed control.

Minimum Setback Distances (feet)					
Area Treated (acres)	Concentration of Triclopyr Acid Equivalent in Water (PPM ae)				
	0.75 ppm	1 ppm	1.5 ppm	2 ppm	2.5 ppm
<4	300	400	600	800	1000
>4 – 8	420	560	840	1120	1400
>8 – 16	600	800	1200	1600	2000
>16 – 32	780	1040	1560	2080	2600
>32 acres, calculate the minium setback distance using formula given for chosen application rate	Setback (ft) = [800 X in (acres) – 160]/3.33	Setback (ft) = [800 X in (acres) – 160]/2.5	Setback (ft) = [800 X in (acres) – 160]/1.67	Setback (ft) = [800 X in (acres) – 160]/1.25	Setback (ft) = [800 X in (acres) – 160]

**Example Calculations:**

To apply this product at 2.5 PPM ae to 50 acres

$$\begin{aligned} \text{Setback in feet} &= [800 \times \text{in (50 acres)}] - 160 \\ &= [800 \times 3.912] - 160 \\ &= 2970 \text{ feet} \end{aligned}$$

To apply this product at 0.75 PPM ae to 50 acres

$$\begin{aligned} \text{Setback in feet} &= \frac{[800 \times \text{in (50 acres)}] - 160}{3.33} \\ &= \frac{[800 \times 3.912] - 160}{3.33} \\ &= 892 \text{ feet} \end{aligned}$$

This product can be applied around functioning potable water intakes or closer than these setback distances as long as the intake is turned off until the level of triclopyr in the intake water is determined to be less than or equal to 0.4 parts per million (ppm) as determined by laboratory analysis or immunoassay.

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE:** Store above 28°F or agitate before use.

**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: Plastic Container Disposal:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities by burning. If burned, stay out of smoke. **Metal Container Disposal:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

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**WARRANTY DISCLAIMER**

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