

## OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

February 28, 2025

Catherine M. Holmes
Regulatory Manager for Nufarm Limited
C/O Nufarm Americas Inc.
4000 Aerial Center Parkway
Morrisville, NC 27560

Subject: Notification per PRN 98-10 – Add Alternate Brand Name: Panther XLR Herbicide

and Add/Correct Pages Throughout the Label (pages 1-70).

Product Name: NUP-ICP

EPA Registration Number: 71368-129 Application Date: November 25, 2024

Case Number: 639423

## Dear Ms. Holmes:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped "NOTIFICATION" and placed in our records.

The alternate brand name, "Panther XLR Herbicide" has been added to the product record.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If you have any questions, please contact Ernest Kraka at (202)-566-2822 or at kraka.ernest@epa.gov.

Page 2 of 2 EPA Reg. No. 71368-129 Case No. 639423

Sincerely,

Shaza Blogner Shaja B. Joyner, Product Manager 20 Fungicide-Herbicide Branch

Registration Division 7505P

# NUP-ICP HERBICIDE

## [ABN: Panther XLR Herbicide]

- FOR CONTROL AND/OR SUPPRESSION OF CERTAIN WEEDS IN ALFALFA; ALMOND; ARTICHOKE, GLOBE; ASPARAGUS; BERRY, LOW GROWING, SUBGROUP 13-07G; BUSHBERRY SUBGROUP 13-07B; CANEBERRY, SUBGROUP 13-07A; CITRUS, GROUP 10-10; CORN; COTTON; CLOVER; GRASS; FRUIT, POME, GROUP 11-10; FRUIT, SMALL VINE CLIMBING, EXCEPT FOR FUZZY KIWIFRUIT, SUBGROUP 13-07F; FRUIT, STONE, GROUP 12-12; GRAIN, ASPIRATED FRACTIONS; HOP, DRIED CONES; LEAF PETIOLES SUBGROUP 4B; NUT, TREE, GROUP 14-12; OLIVE; ONION, BULB SUBGROUP 3-07A; PEA AND BEAN, DRIED SHELLED, EXCEPT SOYBEAN, SUBGROUP 6C; PEANUT; PEPPERMINT, TOPS; POMEGRANATE; PRICKLY PEAR; RAPESEED SUBGROUP 20A; SOYBEAN FORAGE; SOYBEAN HAY; SOYBEAN, SEED; SPEARMINT, TOPS; SUGARCANE, CANE; SUNFLOWER SUBGROUP 20B; VEGETABLE, BRASSICA, HEAD AND STEM, GROUP 5-16; VEGETABLE, CUCURBIT, GROUP 9; VEGETABLE, FRUITING, GROUP 8-10; VEGETABLE, TUBEROUS AND CORM, SUBGROUP 1C; WHEAT, NON-BEARING FRUIT AND NUT TREES, FALLOW LAND AND TO MAINTAIN BARE GROUND ON NON-CROP AREAS OF FARMS, ORCHARDS AND VINEYARDS
- FOR THE MANAGEMENT OF UNDESIRABLE AQUATIC VEGETATION IN SLOW MOVING OR QUIESCENT WATERS
- FOR USE TO MAINTAIN BARE GROUND NON-CROP AREAS, CONIFER AND POPLAR RE-FORESTATION SITES
- FOR USE IN CONTAINER AND FIELD GROWN CONIFERS (INCLUDING CHRISTMAS TREES) AND DECIDUOUS TREES, AROUND ESTABLISHED WOODY ORNAMENTALS IN LANDSCAPES AND MAINTAIN NON-CROP AREAS AND DORMANT BERMUDAGRASS

## **ACTIVE INGREDIENT:**

Flumioxazin*	41.4%
OTHER INGREDIENTS:	<u>58.6%</u>
TOTAL:	100.0%

\*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 NUP-ICP contains 4 pounds flumioxazin per gallon.

**Shake Well Before Use** 

## **KEEP OUT OF REACH OF CHILDREN**

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 ADDITIONAL PRECAUTIONARY STATEMENTS

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

## NOTIFICATION

71368-129

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

02/28/2025

NOTE: Pagination added / corrected throughout the label (pgs 1-70). Double pagination removed from pgs 2-13.

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Harmful if inhaled or absorbed through the skin. Causes moderate eye irritation. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

## **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.

## Applicators and other handlers must wear:

- long-sleeved shirt and long pants
- chemical-resistant gloves made of any waterproof material
- shoes and socks

## For aerial application to sugarcane, mixer/loaders must also wear:

- coveralls
- chemical resistant apron
- · chemical resistant boots

## For aerial application to artichoke, field peas; flax; lentils; safflower; sunflower and wheat, mixer/loaders must also wear:

• filtering face piece respirator (N95, R95 or P95).

#### **User Safety Requirements:**

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

## **USER SAFETY RECOMMENDATIONS**

#### **Users Should:**

- 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 non-target plants and 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. Drift or runoff may be hazardous to non-target plants and aquatic organisms in neighboring areas. **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 use strictly in accordance with the drift and run-off precautions on this label in order to minimize off-site exposures.

Treatment of aquatic weeds can result in oxygen loss from decomposition of dead weeds. This loss can cause fish suffocation. Therefore, to minimize this hazard, treat 1/3 to 1/2 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 outwards in bands to allow fish to move into untreated areas. Consult with the State agency with primary responsibility for regulating pesticides before applying to public waters to determine if a permit is needed.

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, including 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.

## PHYSICAL OR CHEMICAL HAZARDS

DO NOT mix or allow coming in contact with oxidizing agent. Hazardous chemical reaction may occur.

## **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.

## AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard (WPS), 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 statement of this label about personal protective equipment (PPE) and restricted-entry interval (REI). The requirements in this box only apply to users 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, including plants, soil or water is: coveralls, chemical resistant gloves made of 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 treated areas until sprays have dried.

## **RISKS OF USING THIS PRODUCT**

The Buyer and User (referred to collectively herein as "Buyer") of this product must be aware that there are inherent unintended risks associated with the use of this product which are impossible to eliminate. These risks include, but are not limited to, injury to plants and crops to which this product is applied, lack of control of the target pests or weeds, resistance of the target pest or weeds to this product, injury caused by drift,' and injury to rotational crops caused by carryover in the soil. Such risks of crop injury, non-performance, resistance or other unintended consequences are unavoidable and may result because of such factors as weather, soil conditions, disease, moisture conditions, irrigation practices, condition of the crop at the time of application, presence of other materials either applied in the tank mix with this product or prior to application of this product, cultural practices or the manner of use or application, (or a combination of such factors) all of which are factors beyond the control of Nufarm. The Buyer must be aware that these inherent unintended risks may reduce the harvested yield of the crop in all or a portion of the treated acreage, or otherwise affect the crop such that additional care, treatment and expense are required to take the crop to harvest. If the Buyer chooses not to accept these risks, THEN THIS PRODUCT IS NOT TO BE APPLIED. By applying this product Buyer acknowledges and accepts these inherent unintended risks AND TO THE FULLEST EXTENT ALLOWED BY LAW, AGREES THAT ALL SUCH RISKS ASSOCIATED WITH THE APPLICATION AND USE ARE ASSUMED BY THE BUYER.

Nufarm shall not be responsible for losses or damages (including, but not limited to, loss of yield, increased expenses of farming the crop or such incidental, consequential or special damages that may be claimed) resulting from use of this product in any manner not set forth on the label. Buyer assumes all risks associated with the use of this product in any manner or under conditions not specifically directed or approved on the label.

See also WARRANTY DISCLAIMER and LIMITATION OF LIABILITY sections of the label for additional information.

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## PRODUCT INFORMATION

- This product provides residual control of susceptible weeds.
- · This product provides additional burndown activity when used as part of a burndown program.
- This product can be applied as part of a fall burndown program for control of susceptible winter annuals.
- This product can be applied with a hooded or shielded sprayer, as well as part of a layby application, in selected crops for postemergence weed control as well as residual control of susceptible weeds.
- This product can be used on farms for non-selective vegetation control to maintain bare ground non-crop areas that must be kept weed free.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

This product may cause spotting or speckling on foliage if the spray solution directly contacts actively growing plant foliage or green bark. Leaves that receive indirect (drift) spray contact may be affected in a similar manner. Translocation of this product is limited, and under most conditions established and vigorously growing woody ornamentals will rapidly outgrow any injury symptoms. However, direct application to actively growing foliage can cause severe injury or death with sensitive ornamental plant species, especially in herbaceous bedding plants and flowers.

**IMPORTANT:** When applied as directed, plants listed on this label have shown tolerance to this product. However, this product is a very active herbicide. Exercise responsible judgment and caution until familiarity is gained with this product. Due to variability within species, crop growth stage, environmental conditions and application techniques, it is directed that users test this product under local growing conditions on a small number of plants and evaluate for 4 to 6 weeks for phytotoxicity. Testing this product on a small number of plants will determine if the herbicide can be used safely on a widespread application. Neither the seller nor the manufacturer of this product has investigated the safety to plants not listed on the label.

## **SPRAY DRIFT MANAGEMENT**

## **Mandatory Spray Drift Directions**

## Aerial Applications

- DO NOT release spray at a height greater than 10 ft above the vegetative canopy, unless a greater application height is necessary for pilot safety.
- For all applications, applicators are required to use a medium or coarser spray droplet size (ASABE S572.1).

- The boom length must not exceed 65% of the wingspan for airplanes or 75% of the rotor blade diameter for helicopters.
- Applicators must use ½ swath displacement upwind at the downwind edge of the field.
- Nozzles must be oriented so the spray is directed toward the back of the aircraft.
- DO NOT apply when wind speeds exceed 10 miles per hour at the application site.
- DO NOT apply during temperature inversions.

## **Ground Applications**

- Apply with the nozzle height recommended by the manufacturer, but no more than 3 feet above the ground or crop canopy.
- For all applications, applicators are required to use a medium or coarser spray droplet size (ASABE S572.1).
- DO NOT apply when wind speeds exceed 10 miles per hour at the application site.
- DO NOT apply during temperature inversions.

#### Boom-less Ground Applications:

- Applicators are required to use a medium or coarser droplet size (ASABE S572.1) for all applications.
- **DO NOT** apply when wind speeds exceed 10 miles per hour at the application site.

DO NOT apply during temperature inversions.

## **Spray Drift Advisories**

- THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT.
- BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.
- IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

Controlling Droplet Size - Ground Boom

- Volume Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use
  the highest practical spray volume for the application. If a greater spray volume is needed, consider
  using a nozzle with a higher flow rate.
- Pressure Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

## Controlling Droplet Size - Aircraft

- Adjust Nozzles Follow nozzle manufacturers recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.
- BOOM HEIGHT Ground Boom

Use the lowest boom height that is compatible with the spray nozzles that will provide uniform coverage. For ground equipment, the boom should remain level with the crop and have minimal bounce.

RELEASE HEIGHT - Aircraft

Higher release heights increase the potential for spray drift. When applying aerially to crops, **DO NOT** release spray at a height greater than 10 ft above the crop canopy, unless a greater application height is necessary for pilot safety.

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of 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. Avoid applications during temperature inversions.

WIND

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.

Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

Boom-less Ground Applications:

Setting nozzles at the lowest effective height will help to reduce the potential for spray drift.

Handheld Technology Applications:

Take precautions to minimize spray drift.

DO NOT use spray equipment used to apply this product to apply other materials to any crop foliage, unless the proper cleanout procedures are followed. See "SPRAYER CLEANUP" for more information.

#### **ENVIRONMENTAL CONDITIONS AND BIOLOGICAL PERFORMANCE**

#### Preemergence Application (Conventional Tillage)

**Important:** Crop injury may occur from applications made to poorly drained soils and/or applications made under cool, wet conditions. Risk of crop injury can be minimized by using on well drained soils, planting at least 1.5 inches deep, using high quality seed and completely covering seeds with soil prior to preemergence applications. Treated soil that is splashed onto newly emerged crops may result in temporary crop injury.

Moisture is necessary to activate this product in soil for residual weed control. Dry weather following applications of this product may reduce effectiveness. However, when adequate moisture is received after dry conditions, this product will control susceptible germinating weeds. This product may not control weeds that germinate after application but before an activating rainfall/irrigation or weeds that germinate through cracks resulting from dry soil.

When adequate moisture is not received after an application of this product, weed control may be improved by irrigation with at least 1/4 inch of water. If emerged weeds are controlled by cultivation, residual weed control will be reduced.

#### **Burndown Application**

For best results, apply this product as part of a burndown program to actively growing weeds. Applying this product under conditions that **DO NOT** promote active weed growth will reduce herbicide effectiveness. **DO NOT** apply this product when weeds are under stress due to drought, excessive water, extremes in temperature, disease or low humidity. Weeds under stress tend to become less susceptible to herbicidal action. This product is most effective when applied under warm sunny conditions.

Reduced residual weed control may occur when burndown applications are made to fields where heavy crop and/or weed residue exist.

## **Postemergence Application**

Only apply this product to healthy crops labeled for postemergence use. **DO NOT** apply this product to crops that have been weakened by disease, drought, flooding, excessive fertilization, soil salts, previously applied pesticides, nematodes, insects or winter injury.

#### Rainfast

This product is rainfast one hour after application. Postemergent efficacy may be reduced if rain is expected within one hour of application.

#### **Soil Characteristics**

Application of this product to soils with high organic matter and/or high clay content may require higher dosages than soils with low organic matter and/or low clay content. Application to cloddy seedbeds can result in reduced weed control.

## HERBICIDE RATE

## Residual Weed Control (Including Preemergence Applications or Applications as Part of a Fall or Spring Burndown and Fallow Seedbed Program)

Based upon soil characteristics (organic matter content and texture), the most difficult to control weed species being targeted, and the crop being grown, select the proper dosage of this product from the rate range tables contained in this label.

**CARRIER VOLUME AND SPRAY PRESSURE** (Ground Equipment only. See Information for Aerial Equipment under "AERIAL APPLICATION".)

## Preemergence Application (Conventional Tillage)

To ensure uniform coverage, use 10 to 30 gallons of spray solution per acre for conventional tillage applications. Nozzle selection must meet manufacturer's gallonage and pressure specifications for preemergence herbicide application.

## **Burndown Application (Prior to Crop Emergence)**

To ensure thorough coverage in burndown applications, use 15 to 60 gallons spray solution per acre. Use 20 to 60 gallons per acre if dense vegetation or heavy crop residue is present. Nozzle selection must meet manufacturer's gallonage and pressure specifications for postemergence herbicide application. **DO NOT** use flood jet nozzles.

## Postemergence Application (Emerged Crop)

Check use directions for specific crops in which this product can be applied postemergence. To ensure thorough coverage in burndown applications, use a minimum of 15 gallons spray solution per acre. Use a minimum of 20 gallons per acre if dense vegetation or heavy crop residue is present. Nozzle selection must meet manufacturer's gallonage and pressure specifications for postemergence herbicide application.

### **ADDITIVES**

## **Burndown Application (Prior to Crop Emergence)**

Postemergence control of weeds from tank mixes of this product will require the addition of an agronomically approved adjuvant to the spray mixture. Either a crop oil concentrate or methylated seed oil which contains at least 15% emulsifiers and 80% oil or a non-

ionic surfactant at 0.25%v/v, may be used when applying this product as part of a burndown program. Some tank mix partners, for example, Roundup Power Max<sup>®</sup>(EPA# 524-549;glyphosate) are formulated with sufficient adjuvants and **DO NOT** require the addition of a crop oil concentrate, methylated seed oil or non-ionic surfactant when tank mixed with this product. The addition of a crop oil concentrate or methylated seed oil may increase the burndown activity on certain weeds including cutleaf eveningprimrose and Carolina geranium. Verify mixing compatibility qualities by a jar test.

A spray grade nitrogen source (either ammonium sulfate at 2 to 2.5 pounds per acre or a 28 to 32% nitrogen solution at 1 to 2 quarts per acre) may be added to the spray mixture along with either a crop oil concentrate, methylated seed oil or non-ionic surfactant to enhance weed control. The addition of a nitrogen source does not replace the need for a crop oil concentrate, a methylated seed oil or a non-ionic surfactant

#### JAR TEST TO DETERMINE COMPATIBILITY OF ADJUVANTS AND NUP-ICP

When using this product and an adjuvant, including in stale seed bed, layby, hooded/shielded or reduced tillage situations, perform a jar test before mixing commercial quantities of this product, when using this product for the first time, when using new adjuvants or when a new water source is being used.

- 1. Add 1 pint of the water to a quart jar. Use water from the same source and temperature as which will be used in the spray tank mixing operation.
- 2. Add 1 milliliter of this product to the quart jar for every 3 fluid ounces of this product per acre being applied (4 milliliters if 12 fluid ounces per acre is the desired rate of this product), gently mix until product goes into suspension.
- 3. Add 60 milliliters (4 Tablespoons or 2 fluid ounces) of the crop oil or methylated seed oil to the quart jar or 1 milliliter of non-ionic surfactant if it is being used in place of oil, gently mix.
- 4. If nitrogen is being used, add 16 milliliters (1 Tablespoon. or 0.5 ounce) of the 28 to 32% nitrogen source to the quart jar. If ammonium sulfate is being used, add 19 g AMS to the quart jar in place of the 28 to 32% nitrogen.
- 5. Place cap on jar, invert 10 times, let stand for 15 minutes, evaluate.
- 6. An ideal tank mix combination will be uniform. If any of the following conditions are observed, question the choice of:
  - a) Layer of oil or globules on the mixture's surface.
  - b) Flocculation: fine particles in suspension or as a layer on the bottom of the jar.
  - c) Clabbering: Thickening texture (coagulated) like gelatin.

#### SPRAYER PREPARATION

Before application of this product, start with clean, well maintained application equipment. The spray tank, as well as all hoses and booms, must be cleaned to ensure no residue from the previous spraying operation remains in the sprayer. Some pesticides, including but not limited to, the sulfonylurea and phenoxy herbicides, are active at very small amounts and can cause crop injury when applied to susceptible crops. The spray equipment must be cleaned according to the manufacturer's directions for the last product used before the equipment is used to apply this product. If two or more products were tank mixed prior to application of this product, the most restrictive cleanup procedure must be followed.

## MIXING INSTRUCTIONS

- 1. Fill clean spray tank 1/2 to 2/3 of desired level with clean water.
- 2. If a drift retardant is to be used, add 10 pounds of spray grade ammonium sulfate per 100 gallons of spray solution.
- 3. Agitate solution. Agitation creates a rippling or rolling action on the water surface.
- 4. If tank mixing this product with other labeled herbicides, add water soluble bags first, followed by dry formulations, flowables, emulsifiable concentrates and then solutions. Prepare no more spray mixture than is required for the immediate spray operation.
- 5. Add any required adjuvants.
- 6. Fill spray tank to desired level with water. Continue agitation until all spray solution has been applied.
- 7. Mix only the amount of spray solution that can be applied the day of mixing. Apply this product within 6 hours of mixing.

#### **SPRAYER CLEANUP**

Spray equipment, including mixing vessels and nurse tanks, must be cleaned each day following application of this product. After this product is applied, the following steps must be used to clean the spray equipment:

- 1. Completely drain the spray tank, rinse the sprayer thoroughly, including the inside and outside of the tank and all in-line screens.
- 2. Fill the spray tank with clean water and flush all hoses, booms, screens and nozzles.
- 3. Top off tank, add 1 gallon of 3% household ammonia (or equivalent) for every 100 gallons of water, circulate through sprayer for 5 minutes, and then flush all hoses, booms, screens and nozzles for a minimum of 15 minutes. If diaphragms are being used on the spray boom, loosen diaphragms before flushing the spray system, allowing cleaning solution to spray through the open diaphragm. If spray lines have any end caps, they must be loosened before flushing the system, allowing cleaning solution to spray through the loosened caps. To enhance removal of this product from the spray system, add a tank cleaner for example, "Valent Tank Cleaner" from Valent U.S.A. Corporation, in place of ammonia and allow the cleaning solution to remain in the pressurized spray system (spray tank, hoses and boom) overnight before flushing the system for a minimum of 15 minutes.
- 4. Drain tank completely.
- 5. Add enough clean water to the spray tank to allow all hoses, booms, screens and nozzles to be flushed for 2 minutes.
- 6. Remove all nozzles and screens and rinse them in clean water.

Spray equipment, including all tanks, hoses, booms, screens and nozzles, must be thoroughly cleaned before it is used to apply postemergence pesticides. Equipment with residue of this product remaining in the system may result in crop injury to the subsequently treated crop.

## **APPLICATION AND SPRAYER INFORMATION**

Apply this product with sprayers equipped with nozzles designed to deliver the desired spray pressure and spray volume. Apply by backpack or handgun sprayer, airboat, helicopter, airplane, or other application equipment that will ensure thorough coverage of plant foliage. Important: Thoroughly clean spray equipment, including all tanks, hoses, booms, screens and nozzles. DO NOT use spray equipment used to apply this product to apply other materials or to any desirable plant foliage. Equipment with this product's residue remaining in the system may result in crop injury to subsequently treated crops. Application equipment must be clean and in good repair. Nozzles must be uniformly spaced on boom and frequently checked for accuracy.

## **BAND APPLICATION**

When banding, use proportionately less water and this product per acre.

#### HANDGUN APPLICATION

Applications may also be made using a handgun sprayer. Use a spray volume of at least 40 gallons per acre to insure uniform coverage.

#### **BACKPACK APPLICATION**

When applying this product with a backpack sprayer follow all above restrictions. Calibrate backpack sprayers to deliver 1 gallon of spray solution per 500 to 1,000 square feet.

Application Volume	Rate (fl oz/A)	FI oz to Mix in 1 gal Water	MIs to Mix in 1 gal Water
	8 (0.25lbs a.i.)	0.09	2.7
1 gal per 500 sq ft (87	10 (0.31 lbs a.i.)	0.11	3.4
GPA)	12 (0.38 lbs a.i.)	0.14	4.1
	8 (0.25 lbs a.i.)	0.14	4.1
	10 (0.31 lbs a.i.)	0.17	5.1
1 gal per 750 sq ft (65 GPA)	12 (0.38 lbs a.i.)	0.21	6.1
	8 (0.25 lbs a.i.)	0.18	5.3
	10 (0.31 lbs a.i.)	0.23	6.8
1 gal per 1,000 sq ft (44 GPA)	12 (0.38 lbs a.i.)	0.27	8.1

Example: Applicator wants to spray 1 gallon of this product solution per 1,000 square feet of ground bed at a rate of 12 fl oz/A (0.038 fl oz ai/A). Mix 0.27 fl oz (8.1 mls) of this product in 1 gallon of water.

#### **BROADCAST APPLICATION**

Apply this product and tank mixes of this product, with ground equipment using standard commercial sprayers equipped with flat fan or flood nozzles (preemergence applications only) designed to deliver the desired spray pressure and spray volume.

## **AERIAL APPLICATION**

Spray drift away from the site of application may cause damage to non-target vegetation. To minimize drift, apply the largest droplet size consistent with uniform coverage and satisfactory weed control. To obtain satisfactory application and avoid drift, the following restrictions and precautions must be observed.

## **RESTRICTIONS**

- DO NOT apply during low-level inversion conditions (including fog), when winds are gusty or under other conditions that
  favor drift
- **DO NOT** spray when wind velocity is less than 2 mph or more than 10 mph.
- DO NOT apply this product by air within 40 feet of non-target plants including non-target crops.
- DO NOT apply this product by air within 100 feet of emerged cotton crops.
- DO NOT apply this product by air within 40 feet of streams, wetlands, marshes, ponds, lakes and reservoirs.

### **PRECAUTIONS**

• Carrier Volume and Spray Pressure: When used as part of a burndown weed control program, apply this product in 7 to 10 gallons of water per acre. Application at less than 7 gallons per acre may provide inadequate control. When used for preemergence weed control, apply this product in 5 to 10 gallons of water per acre. The higher gallonage applications afford

more consistent weed control. **DO NOT** exceed the nozzle manufacturer's specified 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.

- Nozzle Selection and Orientation: Formation of very small drops may be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible and by avoiding excessive spray pressure. Use nozzles that produce flat or hollow cone spray patterns. Use non-drip type nozzles, including diaphragm type nozzles, to avoid unwanted discharge of spray solution. The nozzles must be directed toward the rear of the aircraft, at an angle between 0 and 15° downward. DO NOT place nozzles on the outer 25% of the wings or rotors.
- Adjuvants and Drift Control Additives: Refer to tank mix partner's label for adjuvant directions. Drift control additives may be used. When a drift control additive is used, read and carefully observe the cautionary statements and all other information appearing on the additive label.

#### **CHEMIGATION**

Follow all label instructions for crops regarding rates, timing of application, special instructions and precautions.

Apply this product only through center pivot systems. End guns must be turned off due to uneven application. **DO NOT** apply this product through any other type of irrigation system.

Crop injury, lack of efficacy or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

The system must be properly calibrated (with water only) to ensure that the amount of this product applied corresponds to the labeled rate.

Apply this product in 1/2 to 3/4 inches of water during the first sprinkler set. Allow time for all lines to flush the herbicide through all nozzles before turning off irrigation water. To ensure the lines are flushed and free of remaining herbicide, a dye indicator may be injected into the lines to mark the end of the application period. Once chemigation has begun, the run must be completed to ensure no product is left in the system.

If you have any questions about calibration contact your State Extension Service Specialist, equipment manufacturers or other experts.

#### **Special Precautions for Chemigation**

- 1. **DO NOT** connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
- 2. A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments in the event the need arises.
- 3. The system must be free of leaks and clogged nozzles.
- 4. The pesticide must be supplied continuously for the duration of the aqueous application. An uneven application may cause injury to the crop or poor weed control.
- 5. Agitation must be maintained in the nurse tank.
- 6. The sprinkler chemigation system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow.
- 7. The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of fluid back toward the injection pump.
- 8. The pesticide injection pipeline must contain a functional, normally closed, solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- 9. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in the case where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 10. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 11. Systems must use a metering pump, including a positive displacement injection pump (e.g., diaphragm pump), effectively designed and constructed of materials that are compatible with the pesticides and capable of being fitted with a system interlock.
- 12. **DO NOT** apply when wind speed favors drift beyond the area intended for treatment.

## **Chemigation Systems Connected to Public Water Systems**

- 1. Public water system means a system for the provision to the public of piped water for human consumption, if such a system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
- 2. Chemigation systems connected to the public water system must contain a functional, reduced pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, discharge the water from the public water system into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
- 3. All Chemigation systems connected to the public water system must also follow restrictions listed in the preceding section titled "Special Precautions for Chemigation".

## **APPLICATION WITH DRY BULK FERTILIZERS**

Dry bulk fertilizer may be impregnated or coated with this product. Application of dry bulk fertilizer with this product provides weed control equal to, or slightly below, the same rate of this product applied in liquid carriers, due to better coverage with application via spray equipment. Follow label instructions for this product regarding rates, special instructions, cautions and special precautions.

Apply 400 to 700 pounds of the fertilizer/herbicide mixture per acre to obtain adequate soil coverage. Apply the mixture to the soil with properly calibrated equipment immediately after blending. Uniform application of the herbicide/fertilizer mixture is essential to prevent possible crop injury and to obtain uniform weed control.

**DO NOT** use ammonium nitrate and/or limestone as the sole source of fertilizer, as this product may not adhere to these materials.

Compliance with all Federal and State regulations relating to blending pesticide mixtures with dry bulk fertilizer, registrations, labeling and application are the responsibility of the individual and/or company offering the fertilizer and mixtures of this product for sale.

This product must be premixed with water to form a slurry prior to impregnation on dry bulk fertilizer. For best results, use a minimum of 1 pint of water for each 2 fluid ounces of this product. Use a minimum of 6 pints of slurry of this product to impregnate 2000 pounds of the fertilizer for uniform coverage of the fertilizer. Closed drum, belt, ribbon or other commonly used dry bulk blenders may be used. The amount of this product required can be calculated with the following formula:

Fluid Ounces of This Product		Fluid Ounces of This Product	V	2.000		Pounds of Fertilizer
Per Ton of Fertilizer	_	Per Acre	^	2,000	-	Per Acre

Thoroughly clean dry fertilizer blending equipment after this product has been placed in the system to avoid injury to sensitive crops that may be treated with fertilizers blended after the equipment has been used for this product. Rinse the sides of the blender and the herbicide tank with water. Then impregnate the rinsate onto a load of dry fertilizer intended for an approved crop. Use a maximum rate of 1 gallon of rinsate per ton of fertilizer. Follow with 1 to 2 loads of unimpregnated fertilizer in the blender before switching herbicides.

## WEED RESISTANCE MANAGEMENT

For resistance management, NUP-ICP – Ag Herbicide contains a Group 14 herbicide –flumioxazin. Any weed population may contain or develop plants naturally resistant to NUP-ICP – Ag Herbicide and other Group 14 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Appropriate resistance-management strategies should be followed.

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

To delay herbicide resistance, take one or more of the following steps:

- Rotate the use of NUP-ICP Ag Herbicide or other Group 14 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available, use the less resistance-prone partner at a rate that will control the target weed(s) equally as well as the more resistance-prone partner. Consult your local extension service or certified crop advisor if you are unsure as to which active ingredient is currently less prone to resistance.
- Adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information related to herbicide use and crop rotation, and that considers tillage (or other mechanical control methods), cultural (e.g., higher crop seeding rates; precision fertilizer application method and timing to favor the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Scout after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method for example hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- Contact your local extension specialist or certified crop advisors for additional pesticide resistance-management and/or integrated weed-management directions for specific crops and weed biotypes.

It is advisable to keep accurate records of pesticides applied to individual fields to help obtain information on the spread and dispersal of resistant biotypes. Contact your local sales representative, crop advisor, or extension agent to find out if suspected resistant weeds to this MOA have been found in your region. **DO NOT** assume that each listed weed is being controlled by this mechanisms of action. Co-formulated active ingredients are intended to broaden the spectrum of weeds that are controlled. Some weeds may be controlled by only one of the active ingredient in this product.

Suspected herbicide-resistant weeds may be identified by these indicators:

- \* Failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds:
- \* A spreading patch of non-controlled plants of a particular weed species; and
- \* Surviving plants mixed with controlled individuals of the same species.

#### INTEGRATED PEST MANAGEMENT

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

#### **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.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

## **TANK MIX APPLICATION**

In addition to weeds controlled by this product used alone, tank mixtures with other herbicides provides a broader spectrum of weed control. This product can be tank mixed with other herbicides including, but not limited to those products listed below.

#### TANK MIX COMBINATIONS FOR NON-SELECTIVE VEGETATION CONTROL

2,4-D	hexazinone	picloram
bromacil	imazapic	pramitol
chlorsulfuron	imazapyr	prodiamine
dicamba	metsulfuron-methyl	simazine

diuron norflurazon sulfometuron-methyl

clopyralid oryzalin tebuthiuron glyphosate pendimethalin Triclopyr

## <sup>†</sup>Tank Mixing – Conifer and Poplar Release Treatments

Certain liquid formulations of other pesticides may increase the postemergence activity of this product, but may also increase the potential for injury when applied over the top of various plants. Therefore, tank mixtures of these materials with this product may be potential for injury when applied over the top of various plants. Therefore, tank mixtures of these materials with this product may be more injurious than this product applied alone and need to be tested to determine if they can be used safely on a widespread basis. †Not for use in CA

## Tank Mixing - Container and Field Grown Conifers

This product may be tank mixed with products containing the following active ingredients labeled for use in conifers:

clethodim glyphosate\* oryzalin prodiamine simazine\*

\*DO NOT apply glyphosate or simazine to containerized ornamentals.

## Tank Mixing - Field and Container Grown Deciduous Trees

This product may be tank mixed with products containing the following active ingredient labeled for use in deciduous trees:

clethodim glyphosate\* metolachlor oryzalin pendimethalin prodiamine simazine\*

\*DO NOT apply glyphosate or simazine to containerized plants.

## **ROTATIONAL RESTRICTIONS**

The following rotational crops may be planted after applying this product at the listed rate. Planting earlier than the specified rotational interval may result in crop injury.

• DO NOT plant any crop, except corn (field), cotton, peanut, soybean, sugarcane and sweet potato earlier than 30 days after applying this product.

NUP-ICP HERBICIDE RATES	CROPS	ROTATION INTERVALS
1 oz/A (0.031 lb ai)	Cotton (no-till or strip-till only)	14 days¹
1.5 to 2 oz/A (0.047- 0.063 lb ai)	Cotton (no-till or strip-till only)	21 days¹
2 oz/A (0.063 lb ai) or	Peanut, Soybean, Sugarcane and Sweet Potato	immediately
less	Field Corn (minimum and no-till)	7 days
	Cotton and Field Corn (conventional tillage), Rice, Sorghum, Sunflower, Tobacco and Wheat	30 days¹
	Barley, Dry and Snap Beans, Flax, Peas, Rye, Safflower and Sweet Corn	3 months
	Alfalfa, Canola, Clover, Oats, Potato, Sugar Beet and all other crops not listed <sup>2</sup>	4 months if soil is tilled prior to planting 8 months if no tillage is performed
	Lentil	6 months
Up to 3 oz/A (0.094 lb	Peanut, Soybean, Sugarcane and Sweet Potato	immediately
ai)	Field Corn (minimum and no-till)	14 days
	Field Corn (conventional tillage) and Sorghum	30 days¹
	Cotton, Rice, Sunflower, Tobacco and Wheat	2 months <sup>1</sup>
	Barley, Dry and Snap Beans, Flax, Pea, Rye, Safflower and Sweet Corn	4 months
	Alfalfa, Clover, Oats, Potato, Sugar Beet	5 months if soil is tilled prior to planting 10 months if no tillage is performed
	Canola and all other crops not listed <sup>2</sup>	6 months if soil is tilled prior to planting 12 months if no tillage is performed
	Lentil	7 months
	Raised beds only: Head and Stem Brassica except Cabbage	2 months (if the top 4 inches of the beds have been removed)
Up to 4 oz/A (0.124 lb	Sugarcane	immediately
ai)	Cotton, Field Corn, Peanut, Rice, Sorghum, Soybean, Sunflower, Tobacco and Wheat	4 months
	Alfalfa, Canola, Clover, Potato, Sugar Beet and all other crops not listed <sup>2</sup>	6 months if soil is tilled prior to planting 12 months if no tillage is performed
	Raised beds only: Cabbage, melon, pepper and tomato <sup>[3]</sup>	2 months (if the top 4 inches of the beds have been removed)
6 to 12 oz/A (0.188-0.25 lb ai)	Cotton, Field Corn, Peanut, Rice, Sorghum, Soybean, Sunflower, Tobacco and Wheat	9 months
	Alfalfa, Canola, Clover, Sugar Beet and all other crops not listed <sup>2</sup> Trees can be transplanted 2 months after an application of this product <sup>4</sup>	12 months if soil is tilled prior to planting 18 months if no tillage is performed

<sup>&</sup>lt;sup>1</sup> At least one inch of rainfall/irrigation must occur between application and planting or crop injury may occur.

<sup>&</sup>lt;sup>2</sup> Successful soil bioassay must be performed prior to planting these crops.

<sup>[&</sup>lt;sup>3</sup> Arizona, California and Hawaii only: For fallowbed application on transplanted cabbage, melon, pepper and tomato beds use instructions see applicable directions in this label or follow supplemental labeling provided by Nufarm]

<sup>&</sup>lt;sup>4</sup> Transplanted avocado, bushberries (including blueberry), caneberries, citrus fruit, fig, grape, nut trees, olive, pome fruit, pomegranate and stone fruit can be planted 2 months after an application of this product at 2 to 12 oz/A (0.063-0.38 lb ai).

SECTION A		ORGANIC	SOIL	NUP-ICP
COMMON NAME	SCIENTIFIC NAME	MATTER	TYPE	HERBICIDE RATE
Carpetweed	Mollugo verticillata	Up to 5%	All Soil Types	2 oz/A (0.063 lbs a.i.)
Chickweeds,				
Common	Stellaria media			
Mouseear	Cerastium vulgatum			
Dandelion	Taraxacum officinale			
Eclipta	Eclipta prostrata			
Eveningprimrose, Cutleaf	Oenothera laciniata			
Field Pennycress	Thlaspi arvense			
Florida Pusley	Richardia scabra			
Henbit	Lamium amplexicaule			
Lambsquarters, Common	Chenopodium album			
Little Mallow	Malva parviflora			
Marestail/Horseweed	Conyza canadensis			
Mayweed/False Chamomile	Matricaria maritima			
Nightshades,				
Black	Solanum nigrum			
Eastern Black	Solanum ptycanthum			
Hairy	Solanum sarrachoides			
Pigweeds,				
Redroot	Amaranthus retroflexus			
Smooth	Amaranthus hybridus			
Spiny Amaranth	Amaranthus spinosus			
Tumble	Amaranthus albus			
Prickly Lettuce	Lactuca serriola			
Prickly Sida (Teaweed)	Sida spinosa			
Puncturevine	Tribulus terrestris			
Purslane, Common	Portulaca oleracea			
Radish, Wild	Raphanus raphanistrum			
Redmaids	Calandrinia ciliata var. menziessii			
Shepherd's-purse	Capsella bursa-pastoris			
		7		

Table 1 - Broadleaf Weeds Controlled by Residual Activity of This Product (continued)

Jacquemontia tamnifolia

Sonchus asper

Hibiscus trionum

Euphorbia maculata

Smallflower Morningglory

Sowthisle, Prickly

Spotted Spurge

Venice Mallow

SECTION B				
All weeds listed in Section A plus:		ORGANIC	SOIL	NUP-ICP
COMMON NAME	SCIENTIFIC NAME	MATTER	TYPE	HERBICIDE RATE <sup>2</sup>
Coffee Senna	Cassia occidentalis	Up to 3%	All Soil Types	2 oz/A (0.063 lbs a.i.)
Common Ragweed <sup>1</sup>	Ambrosia artemisiifolia			Cotton [,Chickpeas]
False Chamomile	Tripleurospermum maritima			and Dry Bean
Florida Beggarweed	Desmodium tortuosum			2.5 oz/A (0.078 lbs a.i.)
Golden Crownbeard	Verbesina encelioides			Field Corn and
				Soybean
				3 oz/A (0.094 pound Al)
				Peanut and all other
Hairy Indigo	Indigofera hirsuta			labeled crops
Hemp Sesbania	Sesbania exaltata	3 to 5%	Coarse and	2 oz/A (0.063 lbs a.i.)
Jimsonweed	Datura stramonium		Medium Soils	Cotton [,Chickpeas]

Kochia	Kochia scoparia
London Rocket	Sisymbrium irio
Morningglories,3	
Entireleaf	Ipomoea hederacea var. integriuscula
lvyleaf	Ipomoea hederacea
Red/Scarlet	Ipomoea coccinea
Tall	Ipomoea purpurea
Mustard, Wild	Brassica kaber
Palmer Amaranth	Amaranthus palmeri
Spurred Anoda	Anoda cristata
Tropic Croton	Croton glandulosus
Waterhemps, <sup>1</sup>	
Common	Amaranthus rudis
Tall	Amaranthus tuberculatus
Wild Poinsettia	Euphorbia heterophylla
Yellow Rocket	Barbarea vulgaris

(sandy loam, loamy	and Dry Bean
sand, loamy, silt-loam,	2.5 oz/A (0.078 lbs a.i.)
silt, sandy clay, sandy	Field Corn and
clay loam)	Soybean
, ,	3 oz/A (0.094 lbs a.i.)
	Peanut and all other
	labeled crops
	· ·
Fine Soils: (silty clay,	2 oz/A (0.063 lbs a.i.)
silty clay, loam, clay,	Cotton [,Chickpeas]
clay loam)	and Dry Bean
	3 oz/A (0.094 lbs a.i.)
	Field Corn, Peanut,
	Soybean, and all other
	labeled crops
	'

Table 1 - Weeds Suppressed by Residual Activity of This Product

BROADLEAF WEED SPECIES		ORGANIC	FLUID OUNCES
COMMON NAME	SCIENTIFIC NAME	MATTER	PER ACRE
Bristly Starbur	Acanthospermum hispidum	Up to 5%	2.0 to 3.0 (0.063-
Copperleaf, Hophornbeam	Acalypha ostryifolia		0.094 lbs a.i.)
Ragweed, Giant	Ambrosia trifida		
Russian Thistle	Salsola iberica		
Smartweeds,			
Ladysthumb	Polygonum persicaria		
Pennsylvania	Polygonum pensylvanicum		
Smellmelon <sup>[1]</sup>	Cucumis melo		
Velvetleaf	Abutilon theophrasti		
Wild Buckwheat	Polygonum convolvulus		
Wormwood, Biennial	Artemisia biennis		
GRASS WEED SPECIES			
Barnyardgrass	Echinochloa crus-galli		
Bluegrass, Annual	Poa annua		
Crabgrass, Large	Digitaria sanguinalis		
Foxtail, Giant	Setaria faberi		
Goosegrass	Eleusine indica		
Lovegrass, California	Eragrostis diffusa		
Panicums,			
Fall	Panicum dichotomiflorum		
Texas	Panicum texanum		
Ryegrass, Italian	Lolium multiflorum		
Signalgrass, Broadleaf	Brachiaria platyphylla		
Cheat	Bromus secalinus	Up to 5%	1.5 to 3 (0.47-0.094
Downy Brome	Bromus tectorum		lbs a.i.)

A postemergence herbicide, including Lactofen (ie Cobra® EPA Reg. No. 59639-34 or Phoenix™ EPA Reg. No. 59639-118) glyphosate (Roundup Ready® soybeans only) may be needed following a preemergence application of this product to adequately control common ragweed or waterhemp in soybean fields with heavy pressure.

2 Due to differences in crop canopy timing between peanuts and soybeans, use 3 fluid ounces (0.094 lbs a.i.) per acre of this product in peanuts, regardless of soil type and organic matter content, except in the states of North Carolina, Oklahoma and Virginia where a maximum of 2 fluid ounces (0.063 lbs a.i.) per acre can be applied in peanuts. This product will provide residual control of these weeds at 2 fluid ounces (0.063 lbs a.i.) per acre when applied under a cotton canopy.

3 Morningglory species are not adequately controlled on fine soils or soils with greater than 3% organic matter.

## DIRECTIONS FOR USE IN FALL AND SPRING PREPLANT BURNDOWN AND FALLOW SEEDBED PROGRAMS IN FIELD CORN, PEANUT AND SOYBEAN

(Preemergence to Crop)

## RESTRICTIONS AND LIMITATIONS

- DO NOT apply to frozen or snow covered soil.
- DO NOT perform any tillage operation after application or residual weed control will be reduced.
- [Observe all rotational intervals prior to planting as listed in the "ROTATIONAL RESTRICTIONS" table.]

## **FALL BURNDOWN AND FALLOW SEEDBED PROGRAMS**

This product [, at 2 to 4 fluid ounces (0.063-0.125 lbs a.i.) per acre] can be used in the fall to provide residual weed control in fields that will be planted the following spring with field corn, peanut or soybean [(refer to Rotational Restrictions table for rates and rotational intervals prior to planting)]. Weeds controlled by residual activity are listed in Table Broadleaf Weeds Controlled by Residual Activity of This Product; Table - Weeds Controlled by Residual Activity of This Product; Table - Weeds Controlled by Fall and Spring Preplant Burndown Programs; and Table - Weeds Controlled by Residual Activity of This Product. If weeds have emerged at the time of application, use this product in combination with a labeled burndown herbicide. [Application must be made no earlier than October 15 in Region 2 or November 15 in Region 1 or when soil temperature falls below 50°F at a 2 inch depth to maintain residual weed control into the spring (April 1 in Region 1 and May 1 in Region 2) or up until planting, whichever comes first.] This product can be used in a fall burndown or fallow seedbed program [outside of Regions 1 and 2], however the length of residual control may be variable.

Abnormally warm or wet winters will reduce the length of weed control observed in the spring.

## Fall Application Regions:

Region 1: Alabama, Arkansas, Georgia, Kentucky, Mississippi, Oklahoma, Tennessee and Virginia

Region 2: Delaware, Kansas, Illinois, Indiana, Iowa, Maryland, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, Pennsylvania, South Dakota, West Virginia and Wisconsin]

Weeds controlled by postemergence or residual activity are listed in Table - Weeds Controlled by Fall and Spring Preplant Burndown Programs. Preplant burndown treatment tank mixes and rates are:

Rate
2 to 3 oz/A (0.063-0.094 lb a.i.)
0.5 to 1.0 lb ai/A (equivalent to 1 to 2 pt/A of Credit® 41 Extra EPA Reg No. 71368-20)
0.5 to 1.0 lb ai/A (equivalent to 1 to 2 pt/A of 2,4-D 4 LVE)
0.5% v/v + 17 lbs/100 gals of water

or	
Program 2 <sup>1</sup>	
NUP-ICP	2 to 3 oz/A (0.063-0.094 lb a.i.)
Plus	
Glyphosate <b>Plus</b>	0.5 to 1.0 lb ai/A (equivalent to 1 to 2 pt/A of Credit <sup>®</sup> 41 Extra EPA Reg. No.: 71368- 20)
COC <sup>2</sup>	1pt/A
or	or
NIS + AMS	0.5% v/v + 17 lbs/100 gals of water

2 to 3 oz/A (0.063-0.094 lb a.i.)
0.5 to 1.0 lb ai/A (equivalent to 1 to 2 pt/A of 2,4-D 4 LVE)
1 pt/A

<sup>&</sup>lt;sup>1</sup> Dicamba (ex Diablo® EPA REG No. 228-379), at 0.188 pounds AI per acre (6 fluid ounces per acre of Diablo (EPA REG No. 228-379)) can be added to Programs 1, 2 & 3 to assist in the control of emerged broadleaves. Refer to dicamba label for rotational

restrictions.

Table - Weeds Controlled by Fall and Spring Preplant Burndown Programs

WEEDS CONTROLLED <sup>1</sup>		POSTEMERGENCE			
		Program 1 Program 2 Program 3			RESIDUAL
COMMON NAME	SCIENTIFIC NAME	Weeds	Weeds 3 inches or less		
Chamomile, False	Matricaria maritime	Yes	Yes	No	Yes
Cheatgrass	Bromus tectorum	Yes	Yes	No	Yes
Chickweed, Common	Stellaria media	Yes	Yes	No	Yes
Chickweed, Mouseear	Cerastium vulgatum	Yes	Yes	No	Yes
Cockle, White	Silene latifolie	No	Yes	Yes	Yes
Dandelion	Taraxacum officinale	Yes	No	Yes <sup>2</sup>	Yes
Deadnettle, Purple	Lamium purpureum	Yes	Yes	Yes	Yes
Groundsel, Cressleaf	Senecio glabellus	Yes	Yes	-	Yes
Henbit	Lamium amplexicaule	Yes	Yes	Yes	Yes
Kochia	Kochia scoparia	Yes	Yes	Yes	Yes
Marestail/Horseweed	Conyza canadensis	Yes	Yes <sup>3</sup>	Yes	Yes
Mallow, Common	Malva Neglecta	Yes	Yes	No	Yes
Prickly Lettuce	Lactuca serriola	Yes	Yes	Yes	Yes
Wormwood, Biennial	Artemisia biennis	Yes	Yes	Yes	Yes
	Weeds 12 inches or less				
Canola, Volunteer	Brassica napus	Yes	Yes	Yes	Yes
Carolina Geranium	Geranium carolinianum	Yes	Yes	Yes	1
Eveningprimrose, Cutleaf <sup>4</sup>	Oenothera laciniata	Yes	Yes	Yes	Yes
Flixweed	Descurainia sophia	Yes	Yes	Yes	Yes
Mustard, Tansy	Descurainia pinnata	Yes	Yes	Yes	Yes
Mustard, Wild	Brassica kaber	Yes	Yes	Yes	Yes
Shepherd's-purse	Capsella bursa-pastoris	Yes	Yes	Yes	Yes

<sup>&</sup>lt;sup>1</sup> Refer to glyphosate and/or 2,4-D labels for additional weeds controlled and rotational restrictions.

## SPRING BURNDOWN PROGRAMS

This product may be used in combination with labeled preplant burndown herbicides to assist in the postemergence burndown of emerged weeds and provide residual weed control prior to crop emergence. Weeds controlled by residual activity are listed in Table Broadleaf Weeds Controlled by Residual Activity of This Product.

No-till planters that incorporate the soil during planting may result in decreased weed control in the row. Apply this product after planting peanuts and soybeans when these types of planters are used (within 3 days after planting soybeans, within 2 days after planting peanuts and before the crop emerges). This product cannot be applied after planting field corn.

This product can be used at 1 to 3 fluid ounces (0.031-0.094 lb a.i.) per acre with labeled preplant burndown herbicides to enhance the speed of burndown and increase weed spectrum.

This product can be used at 1 to 3 fluid ounces(0.031-0.094 lb a.i.) per acre in field corn, peanut and soybean burndown programs. See "DIRECTIONS FOR USE IN FIELD CORN", "DIRECTIONS FOR USE IN PEANUT", "DIRECTIONS FOR USE IN SOYBEAN" for more information

## DIRECTIONS FOR USE IN FALL AND SPRING BURNDOWN PROGRAMS IN COTTON AND SUGARCANE RESTRICTIONS AND LIMITATIONS

- DO NOT apply to frozen or snow covered soil.
- DO NOT perform any tillage operation after application or residual weed control will be reduced.
- This product can be used [at 1 to 2 fluid ounces (0.031-0.063 lb a.i.) per acre] with labeled burndown herbicides to enhance the speed of burndown and increase weed spectrum.
- A minimum of 30 days must pass, and 1 inch of rainfall/irrigation must occur, between application of this product and planting of conventionally tilled cotton.
- A minimum of 14 days must pass, and 1 inch of rainfall/irrigation must occur, between application of this product and planting of notill or strip-till cotton when a rate of this product at 1 fluid ounce (0.031 lb a.i.) per acre is used and 21 days when a rate of this product at 1.5 to 2 fluid ounces (0.047-0.063 lb a.i.) per acre is used. The field must contain the stubble from the previous crop.
- This product can be applied as part of a burndown application to sugarcane until cane emergence.

<sup>&</sup>lt;sup>2</sup> Crop oil concentrate has been found to increase glyphosate burndown of emerged cutleaf eveningprimrose and Carolina geranium.

<sup>&</sup>lt;sup>2</sup> Use 1 pound Al per acre of 2,4-D LVE (equivalent to 2 pints per acre of 2,4-D 4 LVE) for control of emerged dandelion.

<sup>&</sup>lt;sup>3</sup> Program 2 will not control emerged glyphosate resistant marestail/horseweed.

<sup>&</sup>lt;sup>4</sup> Use Program 1 to control cutleaf eveningprimrose that are nearing 12 inches in height or are past the rosette stage. Use Programs 2 or 3 to control cutleaf eveningprimrose that are 12 inches or less and in the rosette stage.

- · Observe all rotational intervals prior to planting as listed in the "ROTATIONAL RESTRICTIONS" table.
- Refer to most restrictive label for minimum interval between application and planting.

#### **FALL BURNDOWN PROGRAMS**

This product [, at 2 to 4 fluid ounces (0.063-0.125 lb a.i.) per acre,] can be used in the fall to provide residual weed control in fields that will be planted the following spring with cotton or sugarcane [(refer to Rotational Restrictions table for rates and rotational intervals prior to planting)]. Weeds controlled by residual activity are listed in Table Broadleaf Weeds Controlled by Residual Activity of This Product and Table - Weeds Controlled by Residual Activity of This Product. If weeds have emerged at the time of application, use this product in combination with a labeled burndown herbicide. [Application must be made no earlier than October 15 in Region 2 or November 15 in Region 1 or when soil temperature falls below 50°F at a 2 inch depth to maintain residual weed control into the spring (April 1 in Region 1 and May 1 in Region 2) or up until planting, whichever comes first.] [This product can be used in a fall burndown or fallow seedbed program outside of Regions 1 and 2.]

Abnormally warm or wet winters will reduce the length of weed control observed in the spring.

## **SPRING BURNDOWN PROGRAMS**

This product [, at 1 to 2 fluid ounces (0.031-0.063 lb a.i.) per acre,] can be used in combination with labeled preplant burndown herbicides to assist in the postemergence burndown of emerged weeds and provide residual weed control prior to crop emergence in fields that will be planted with cotton or sugarcane. Weeds controlled by residual activity are listed in Table **Broadleaf Weeds Controlled by Residual Activity of This Product**.

No-till planters that incorporate the soil during planting may result in decreased weed control in the row.

## DIRECTIONS FOR USE IN FALL AND SPRING BURNDOWN PROGRAMS IN RICE, SORGHUM, SUNFLOWERS, TOBACCO AND WHEAT

(Preplant to Crop)

#### **RESTRICTIONS AND LIMITATIONS**

- DO NOT apply to frozen or snow covered soil.
- DO NOT perform any tillage operation after application or residual weed control will be reduced.
- This product can be used [at 1 to 2 fluid ounces(0.031-0.063 lb a.i.) per acre] with labeled burndown herbicides to enhance the speed of burndown and increase weed spectrum. A minimum of 30 days must pass, and 1 inch of rainfall/irrigation must occur, between application of this product and planting of rice, sorghum, sugarcane, sunflowers, tobacco or wheat. Refer to most restrictive label for minimum interval between application and planting.
- · Observe all rotational intervals prior to planting as listed in the "ROTATIONAL RESTRICTIONS" table.

#### **FALL BURNDOWN PROGRAMS**

This product can be used in combination with labeled burndown programs to control emerged weeds and provide residual weed control in fields that will be planted the following spring [(refer to Rotational Restrictions table for rates and rotational intervals prior to planting)]. Abnormally warm winters may reduce the length of weed control observed in the spring.

#### **SPRING BURNDOWN PROGRAMS**

This product can be used in combination with labeled burndown programs to control emerged weeds and provide residual weed control prior to crop emergence. Weeds controlled by residual activity are listed in Table - **Broadleaf Weeds Controlled by Residual Activity of This Product - Section A.** Crops that will be planted following application must be in compliance with the rotational interval listed in the "Rotational Restriction" table above.

No-till planters that incorporate the soil during planting may result in decreased weed control in the row.

## DIRECTIONS FOR USE IN FALL BURNDOWN PROGRAMS IN FIELDS TO BE PLANTED TO BARLEY, FIELD PEA, FLAX, LENTIL, SAFFLOWER, SUNFLOWER AND SPRING WHEAT

(Preplant to Crop)

## RESTRICTIONS AND LIMITATIONS

- DO NOT apply to frozen or snow covered soil.
- DO NOT perform any tillage operation after application or residual weed control will be reduced.
- This product can be mixed with 2,4-D and/or glyphosate formulations labeled for burndown programs (preplant to crop) in accordance with the most restrictive label limitations and precautions. Labeled application rates must not be exceeded. **DO NOT** mix this product with any product containing a label prohibition against such mixing.
- · Observe all rotational intervals prior to planting as listed in the "ROTATIONAL RESTRICTIONS" table.

## **FALL BURNDOWN PROGRAMS**

This product can be used [at 2 to 4 fluid ounces (0.063-0.125 lb a.i.) per acre] with labeled burndown herbicides to enhance the speed of burndown, increase weed spectrum and provide residual weed control of the weeds listed in Table - **Weeds Controlled by Fall and Spring Preplant Burndown Programs** until the following spring. Rotational intervals must be followed for crop to be planted in the spring following the fall application of this product. Refer to most restrictive label for minimum interval between application and planting.

#### **DIRECTIONS FOR USE IN FALLOW LAND**

This product may be used as a preemergence fallow treatment. Weeds controlled by residual activity are listed in Table - **Broadleaf Weeds Controlled by Residual Activity of This Product**. This product [, at 2 to 4 fluid ounces (0.063-0.125 lb a.i.) per acre,] can be used in the fall to provide residual weed control in fallow fields [(refer to Rotational Restrictions table for rates and rotational intervals prior to planting)]. If weeds have emerged at the time of application, use this product in combination with a labeled fallow herbicide. Abnormally warm or wet winters will reduce the length of weed control observed in the spring.

This product [, at 1 to 4 fluid ounces (0.031-0.125 lb a.i.) per acre,] can be used in spring in combination with labeled burndown herbicides to control emerged weeds and provide residual weed control.

## DIRECTIONS FOR USE IN ESTABLISHED ALFALFA

## RESTRICTIONS AND LIMITATIONS

- DO NOT apply more than 4 fluid ounces of this product (0.125 pound AI) per acre during a single application.
- DO NOT apply more than 8 fluid ounces of this product (0.25 pound AI) per acre during a single year.
- DO NOT make more than 4 applications per year.
- Retreatment Interval is 60 days.
- DO NOT apply to alfalfa with greater than 6 inches of growth. Application will result in burning of treated leaves and stems. Users must understand and accept this risk before using this product on alfalfa.
- · DO NOT apply within 25 days of harvest or grazing.
- DO NOT use on alfalfa grown for seed unless approved by a State authority to support a Special Local Need (SLN) under FIFRA section 24(c).
- Only apply with an adjuvant or tank mix with products formulated as an emulsifiable concentrate "EC" when targeting control of emerged weeds (expect and accept crop burn and/or stunting if this product is used with an adjuvant, a tank mix partner formulated as an emulsifiable concentrate (EC) or a tank mix partner formulated with an adjuvant.)
- · Application with paraquat can be used to burndown winter annuals prior to winter dormant period.
- · DO NOT use on intended mixed alfalfa-grass stands.

#### **TIMING TO ALFALFA**

This product may be applied to established alfalfa with a maximum amount of growth of 6 inches or less for the preemergence control of the weeds listed in Table - **Weeds Controlled by Residual Activity of This Product**. Established alfalfa is defined as alfalfa planted in the fall or spring which has gone through a first cutting/mowing. Application to alfalfa with greater than 6 inches of growth may result in unacceptable crop injury.

For control of winter annual weeds: the best timing for preemergence control is in the fall immediately after the last cutting or sheeping-off has occurred.

For control of summer annual weeds: the best timing for preemergence control is in the spring prior to alfalfa growth and before 6 inches of growth.

#### **TIMING TO WEEDS**

#### Preemergence - Preemergence To Weeds

Apply this product before alfalfa growth exceeds 6 inches in height for the preemergence control of weeds listed in Table - **Weeds Controlled by Residual Activity of This Product**. Apply as soon as possible after cutting and removing alfalfa to minimize injury to alfalfa growth.

## Postemergence Dodder<sup>[1]</sup> Suppression

Apply this product at 4 fluid ounces (0.125 lb a.i.) per acre with an adjuvant for postemergence suppression of dodder<sup>1</sup>. Tank mixes with imazethapyr will increase control.

[1 Not for use in California.]

## **DIRECTIONS FOR USE IN ARTICHOKE**

## **RESTRICTIONS AND LIMITATIONS**

- DO NOT apply more than 4 fluid ounces of this product (0.125 pound AI) per acre during a single application on annual or perennial artichoke varieties after new planting.
- DO NOT apply more than 6 fluid ounces of this product (0.188 pound AI) per acre during a single application on perennial artichoke varieties after cutback.
- DO NOT apply more than 6 fluid ounces of this product (0.188 pound AI) per acre during a single year.
- DO NOT make more than 4 applications per year.
- Application to artichoke foliage may result in unacceptable crop injury.
- Retreatment interval is 14 days.

#### **TIMING TO ARTICHOKE**

Annual Varieties: This product may be applied to artichoke beds prior to transplanting. Application of this product must be made to the beds no later than 2 days prior to transplanting. Irrigation or rainfall after transplanting is necessary to activate this product. DO NOT irrigate this product before transplanting. Heavy irrigation or rainfall may result in crop injury. The injury is usually transitory and the plants will quickly grow out of the crop damage. Take care to minimize soil disturbance during transplanting, as preemergence weed control will decrease as soil disturbance increases.

**Perennial Varieties:** This product may be applied to artichokes after planting of crown pieces or "cut back" of mature plants. Applications of this product must be made within 2 days after planting or cut back and prior to artichoke emergence. Application after the artichokes have begun to crack, or are emerged, will result in crop injury. **DO NOT** apply when artichokes have begun to emerge (cracking).

#### **TIMING TO WEEDS**

## Pre-plant (annual)/Preemergence (perennial) to Artichokes - Preemergence to Weeds

Apply this product pre-plant to annual artichokes for preemergence control of the weeds. For perennial artichokes apply before cracking for preemergence control the weeds. Apply prior to weed emergence. A post-emergence herbicide may be necessary to control emerged weeds. This product may be applied to annual or perennial artichokes as specified above for preemergence control of weeds listed in Table - Weeds Controlled by Residual Activity of This Product.

## DIRECTIONS FOR USE IN ESTABLISHED ASPARAGUS RESTRICTIONS AND LIMITATIONS

- DO NOT apply more than 6 fluid ounces of this product (0.188 pound Al) per acre during a single application.
- DO NOT apply more than 6 fluid ounces of this product per acre (0.188 pound AI) during a single year.
- DO NOT make more than 4 applications per year.
- Apply only to dormant asparagus no less than 14 days before spears emerge. Application to non-dormant asparagus may result in unacceptable crop injury.
- [DO NOT work soil within 60 days prior to application in the spring. Soil can be worked after spear harvest in preparation for applications of this product prior to fern emergence. Treated soil that is splashed onto the ferns may result in spotting.]
- · Retreatment interval is 14 days.

## **TIMING TO ASPARAGUS - Dormant**

This product may be applied to dormant asparagus for preemergence control of the weeds listed in Table - **Weeds Controlled by Preemergence Application of This Product**. Application to non-dormant asparagus will result in unacceptable crop injury. Apply no less than two weeks prior to spear emergence and must be sprinkler or rainfall incorporated with 0.5 to 0.75 inches of water or some scoring may result.

## **TIMING TO ASPARAGUS - Post Harvest**

Apply this product after the final harvest of the season, but prior to fern emergence, for preemergence control of the weeds listed in Table - **Weeds Controlled by Preemergence Application of This Product**. Application after fern emergence will result in unacceptable crop injury. Apply no less than two weeks prior to fern emergence and must be sprinkler or rainfall incorporated with 0.5 to 0.75 inches of water. Add a burndown tank mix partner for the control of emerged weeds labeled for asparagus in accordance with the most restrictive labeled limitations and precautions.

## **TIMING TO WEEDS**

## Burndown - Dormant Asparagus, Postemergence to Weeds

This product may be used for residual weed control, as well as to assist in postemergence burndown of many annual and perennial weeds where asparagus is dormant. For control of emerged weeds, tank mix this product with paraquat. Refer to paraquat label for specified rate and application parameters. To ensure thorough coverage, use a minimum of 15 gallons of spray solution per acre. Tank mixes of this product applied to assist in the control of emerged weeds must be applied with a non-ionic surfactant at 0.25% v/v. A spray grade nitrogen source (either ammonium sulfate at 2 to 2.5 pounds per acre or 28 to 32% nitrogen solution at 1 to 2 quarts per acre) may be added to increase herbicidal activity.

#### Burndown - After Last Harvest of Season, Postemergence to Weeds

Use this product for residual weed control and to assist in postemergence burndown for many annual and perennial weeds where asparagus harvest has been completed for the year. For control of emerged weeds, use a labeled tank mix partner with activity on the emerged weeds.

### Preemergence - Dormant Asparagus or After Last Harvest of Season, Preemergence to Weeds

Apply this product to dormant asparagus for the preemergence control of weeds listed in Table - Weeds Controlled by Preemergence Application of This Product.

#### IDIRECTIONS FOR USE IN BRASSICA HEAD AND STEM VEGETABLE [1]

Brassica Head and Stem Vegetable Crop Group 5-16 Includes:

Broccoli; Brussels Sprouts; Cabbage; Cabbage, Chinese, napa; Cauliflower; cultivars, varieties, and/or hybrids of these.

[1-Not for use in California.]

## FOR DISTRIBUTION AND USE ONLY WHERE THIRD PARTY INDEMNIFICATION IS IN EFFECT

#### RESTRICTIONS AND LIMITATIONS

- **DO NOT** apply more than 3 fluid ounces of this product (0.094 pound AI) per acre during a single application. For Cabbage **DO NOT** apply more than 4 fluid ounces of this product (0.125 pound AI) per acre during a single application.
- **DO NOT** apply more than 6 fluid ounces of this product (0.188 pound AI) per acre per year. For Cabbage **DO NOT** apply more than 8 fluid ounces of this product (0.25 pound AI) per acre per year.
- DO NOT make more than 4 applications per year.
- DO NOT apply after crops are transplanted.
- · Retreatment interval is 14 days.

#### **PRECAUTIONS**

- This product can only be applied in row middles between raised plastic mulched beds that are at least 4 inches higher than the treated row middle and the mulched bed must have a minimum of a 24-inch bed width.
- Spray must remain between raised beds and contact no more than the bottom 1 inch of the side of the raised bed.
- · All applications must be made with shielded or hooded equipment.
- · Efficacy will be reduced if This product is applied to areas of standing water within the row middles.
- Injury can occur if soil particles treated with This product contact the crop.
- Irrigate treated field after application and prior to transplanting with minimum of 1/4 inch of water if rainfall does not occur between application and transplanting.

#### **TIMING TO CROP**

This product may be applied at 3 oz (0.094 lb a.i.) per acre (except cabbage may be applied at 4 oz/A (0.125 lb a.i.)) as a shielded or hooded application to row middles after plastic is laid up to transplanting or seeding. Transplanting or seeding can take place any time after spray has dried. Spray must be applied to the row middle and contact no more than approximately the bottom 1 inch of the side of the raised bed. If the top of the mulch beds (where plants are to be transplanted) is contacted, severe injury can occur due to foliage contact with treated plastic.

## WEED CONTROL AND TANK MIXING

This product provides preemergence residual control of the weeds listed in **Table - Weeds Controlled by Residual Activity of This Product**, as well as to assist in the postemergence control of emerged weeds. A registered preemergence grass herbicide may be added for control of additional grassy weeds. For control of emerged weeds, tank mix this product with paraquat, Aim, glyphosate (for example Credit Xtreme), or other registered burndown herbicide. Refer to tank mix partner label for specified rates and application parameters.]

## DIRECTIONS FOR USE ON CACTUS[1] (PRICKLY PEAR)

[1-Not for use in California.]

## RESTRICTIONS AND LIMITATIONS

- DO NOT apply more than 12 fluid ounces of this product (0.38 pound AI) per acre during a single application.
- DO NOT apply more than 12 fluid ounces of this product (0.38 pound AI) per acre during a single year.
- DO NOT make more than 4 applications per year.
- Use a maximum rate of 6 fluid ounces (0.188 lb a.i.) per acre of this product per application on any soil that has a sand plus gravel content over 80% if plants are less than 3 years of age. (Two applications of 6 fluid ounces (0.188 lb a.i.) per acre in a single year can still be made as long as there have been 60 days between applications).
- DO NOT apply to farm alleys or roads where traffic may result in treated dust settling onto crops or other desirable vegetation.
- Raise mower height during all mowing to reduce dust. Dust created by mowing can drift onto desirable vegetation resulting in injury.
- DO NOT mow treated areas. Dust created by mowing may drift onto desirable vegetation resulting in injury.
- Follow the most restrictive label limitations and precautions of the tank mix product(s) being used.
- · Avoid direct or indirect spray contact to foliage.
- DO NOT apply within 60 days prior to harvest.
- DO NOT apply to plants established less than one year.
- · Retreatment interval is 60 days.

Apply this product as a uniform broadcast application to the plantation floor or as a uniform band directed at the base of the cactus. The preferred application timing for this product is in the fall to maximize the potential for rainfall to activate and set the herbicide. **DO NOT** apply over the top of crop or allow spray to come in contact with crop as a result of application or drift.

## **Preemergence Application**

Apply 6 to 12 fluid ounces (0.188 to 0.38 pound AI per acre) of this product per broadcast acre as a preemergence application. Applications of this product must be made prior to weed emergence for control of weeds listed in Table - Weeds Controlled by Preemergence Application of This Product. Make preemergence (to weed emergence) applications of this product to a weed-free soil surface. Preemergence applications of this product must be completed prior to weed emergence. Moisture is necessary to activate this product on soil for residual weed control. Dry weather following application of this product may reduce effectiveness. However, when adequate moisture is received after dry conditions, this product will control susceptible germinating weeds.

## [Postemergence Application

Apply 6 to 12 fluid ounces (0.188 to 0.38 pound Al per acre) of this product per broadcast acre plus an adjuvant (0.25% v/v non-ionic surfactant or 1 quart per acre crop oil concentrate). The addition of an adjuvant enhances the activity of this product on emerged weeds. Thorough spray coverage is necessary to maximize the postemergence activity of this product.

Refer to Table - Broadleaf Weeds Controlled by Residual Activity of This Product for weeds controlled by the residual activity of this product. Tank mix this product with a labeled burndown herbicide for control of the emerged weeds.

Residual weed control will be reduced if vegetation prevents this product from reaching the soil surface. If vegetation is heavy, it is directed to use a burndown herbicide with this product and make sequential applications of this product prior to the emergence of new weeds.

## **Carrier Volume and Spray Pressure**

To ensure thorough coverage in burndown applications, use a minimum of 15 gallons of spray solution per acre.

Use higher gallonage if dense vegetation or heavy crop residue is present.

Nozzle selection must meet manufacturer's gallonage and pressure specifications.

## **Banded Application**

Rates listed in Table - Weeds Controlled by Postemergence Activity of This Product Tank Mixes, refer to a broadcast application covering the entire acre. Refer to the Band Application table in Use Information Section to calculate amount needed per acre when making a banded application.

#### **DIRECTIONS FOR USE IN CELERY**

[For Use in the States of [California], Michigan and Wisconsin Only]

## RESTRICTIONS AND LIMITATIONS

- DO NOT apply more than 3 fluid ounces of this product (0.094 pound AI) per acre during a pre-transplant application.
- DO NOT apply more than 3 fluid ounces of this product (0.094 pound AI) per acre during a post-transplant application.
- DO NOT apply more than 3 fluid ounces of this product (0.094 pound AI) per acre during a year.
- DO NOT make more than 4 applications per year.
- [In the state of California, use as pre-transplant application only.]
- DO NOT use with an adjuvant.
- Post transplant applications must be made between 3 to 7 days following transplanting
- DO NOT apply as part of a tank mix.
- Retreatment interval is 14 days.

#### **TIMING TO CELERY**

Apply this product at 3 fluid ounces (0.094 pound Al) per acre prior to transplanting, or between 3 and 7 days following transplanting, for preemergence control of the weeds listed in Table - **Broadleaf Weeds Controlled by Residual Activity of This Product**.

#### **TIMING TO WEEDS**

Use this product prior to weed emergence for residual control.

This product, when applied according to label use directions, will control the weeds listed in Table - Broadleaf Weeds Controlled by Residual Activity of This Product. This label makes no claims concerning control of other weed species.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

## **DIRECTIONS FOR USE IN CHICKPEA (GARBANZO BEAN)**

## RESTRICTIONS AND LIMITATIONS

- DO NOT apply more than 2 fluid ounces of this product (0.063 pound AI) per acre during a single application.
- DO NOT apply more than 2 fluid ounces of this product (0.063 pound Al) per acre per year.

- DO NOT make more than 4 applications per year.
- · Retreatment interval is 14 days.

Many weather related factors, including high wind, splashing or heavy rains or cool conditions at or near crop emergence, may result in dry bean injury in fields treated with this product. On occasion this has resulted in a delay in maturity. User must assume these risks before using this product.

## TIMING TO CHICKPEA (GARBANZO BEAN)

This product may be applied to dry beans within 2 days after planting for the preemergence suppression of the weeds listed in Table – Tank mix this product with other labeled herbicides for broad spectrum weed control.

#### **TIMING TO WEEDS**

This product may be applied to garbanzo beans prior to planting or preemergence (after planting). Preemergence application of this product must be made within 2 days after planting and prior to garbanzo bean emergence. Application after the garbanzo beans have begun to crack, or are emerged, will result in severe crop injury. **DO NOT** apply when garbanzo beans have begun to crack.

Preplant incorporation (PPI) applications may result in reduced weed control.

## ADDITIONAL RESIDUAL GRASS CONTROL

This product can be tank mixed with pendimethalin for additional grass control.]

## **DIRECTIONS FOR USE IN ESTABLISHED CLOVER**

For Use in the States of Idaho, Oregon and Washington Only

## **RESTRICTIONS AND LIMITATIONS**

- DO NOT apply more than 4 fluid ounces of this product (0.125 pound AI) per acre during a single application.
- DO NOT apply more than 4 fluid ounces of this product (0.125 pound AI) per acre during a single year.
- DO NOT make more than 4 applications per year.
- · Retreatment interval is 14 days.
- DO NOT apply within 25 days of harvest or grazing.

#### **PRECAUTIONS**

- · Application to clover with greater than 6 inches of growth may result in unacceptable crop injury.
- DO NOT apply to clover with greater than 6 inches of growth. Application will result in burning of treated leaves and stems. Users must understand and accept this risk before using this product on clover.
- Only apply with an adjuvant or tank mix with products formulated as an emulsifiable concentrate "EC" when targeting control of emerged weeds (expect and accept crop may be burned and/or stunting when applying tank mixes of this product with an adjuvant), or injury may result.
- Application with paraquat can be used to burndown winter annuals prior to winter dormant period.
- DO NOT use on intended mixed clover-grass stands, or injury may result.

#### **TIMING TO CLOVER**

This product may be applied to established clover with a maximum amount of growth of 6 inches or less for the preemergence control of the weeds listed in Table - Weeds Controlled by Residual Activity of This Product. Established Clover is defined as clover planted in the fall or spring which has gone through a first cutting/mowing. For control of winter annual weeds: the best timing for preemergence control is in the fall immediately after the last cutting or sheepingoff has occurred.

For control of summer annual weeds: the best timing for preemergence control is in the spring prior to clover growth and before 6 inches of growth.

## **TIMING TO WEEDS**

## Preemergence - Preemergence to Weeds

Apply this product before clover growth exceeds 6 inches in height for the preemergence control of weeds listed in Table - Weeds Controlled by Residual Activity of This Product. Apply as soon as possible after cutting and removing clover to minimize injury to clover growth.

## **Postemergence Dodder Suppression**

Apply this product at 4 oz per acre with an adjuvant for postemergence suppression of dodder. Tank mixes with Pursuit Herbicide or Raptor Herbicide will increase control.

## **DIRECTIONS FOR USE IN COTTON**

## **RESTRICTIONS AND LIMITATIONS**

- DO NOT apply more than 2 fluid ounces of this product (0.063 pound AI) per acre during a single application.
- DO NOT apply more than 4 fluid ounces of this product (0.125 pound AI) per acre per year.
- DO NOT make more than 4 applications per year.

- · Retreatment interval 30 days.
- DO NOT apply within 60 days of harvest.

#### **ENVIRONMENTAL CONDITIONS AND BIOLOGICAL PERFORMANCE**

## Hooded, Shielded and Layby Application

For best results, apply this product to actively growing weeds within the growth stages indicated in this label. Applying this product under conditions that **DO NOT** promote active weed growth will reduce herbicide effectiveness. **DO NOT** apply this product when the crop or weeds are under stress due to drought, excessive water, extremes in temperature, disease or low humidity. Weeds under stress tend to become less susceptible to herbicidal action. This product is most effective when applied under sunny conditions at temperatures above 65°F.

This product is rainfast one hour after application. Postemergent efficacy may be reduced if rain is expected within one hour of application. Rainfall within one hour of application will not adversely affect residual activity.

## HERBICIDE RATE

## Hooded, Shielded and Layby Application

For postemergence weed control, apply this product through a hooded or shielded sprayer or at layby, at 2 fluid ounces (0.063 lb ai) per acre, in combinations with MSMA or at 1 to 2 fluid ounces (0.031-0.063 lb ai) per acre in combination with glyphosate, to assist in the control of weeds listed in Table - Emerged Broadleaf Weeds Controlled by Hooded, Shielded and Layby Application of Tank Mixes of This Product With Glyphosate or MSMA in Cotton. Residual weed control can also be obtained through hooded, shielded and layby application of this product. Weeds that are controlled through residual activity of this product are listed in Table - Broadleaf Weeds Controlled by Residual Activity of This Product. Weeds that are suppressed by residual activity of this product are listed in Table - Weeds Suppressed by Residual Activity of This Product.

Table - Emerged Broadleaf Weeds Controlled by Hooded, Shielded and Layby Application of Tank Mixes of This Product With Glyphosate or MSMA in Cotton

BROADLEAF WEED SPECIES		WEED HEIGHT (inches)
COMMON NAME	SCIENTIFIC NAME	2 oz/A (0.063 lb ai)
Bindweed, Field¹	Convolvulus arvensis	4
Carpetweed	Mollugo verticillata	4
Chickweed, Common	Stellaria media	4
Cocklebur, Common	Xanthium strumarium	4
Florida Beggarweed	Desmodium tortuosum	2
Hemp Sesbania	Sesbania exaltata	6
Jimsonweed	Datura stramonium	4
Lambsquarters, Common	Chenopodium album	4
Morningglories,		
Entireleaf	Ipomoea hederacea var. integriuscula	4
lvyleaf	Ipomoea hederacea	4
Pitted	Ipomoea lacunose	4
Red	Ipomoea coccinea	4
Tall	Ipomoea purpurea	2
Mustard, Wild	Brassica kaber	6
Nightshades,		
Black	Solanum nigrum	4
Eastern Black	Solanum ptycanthum	4
Hairy	Solanum sarrachoides	4
Pigweeds,		
Palmer Amaranth	Amaranthus palmeri	4
Redroot	Amaranthus retroflexus	4
Smooth	Amaranthus hybridus	4
Plantain, Broadleaf	Plantago major	6
Prickly Sida (Teaweed)	Sida spinosa	4
Purslane, Common	Portulaca oleracea	2
Ragweeds,		
Common	Ambrosia artemisiifolia	2
Giant	Ambrosia trifida	4
Rice Flatsedge	Cyperus iria	2
Sicklepod	Senna obtusifolia	4

Ladysthumb	Polygonum persicaria	4
Pale	Polygonum lapathifolium	4
Pennsylvania	Polygonum pensylvanicum	4
Spotted Spurge	Euphorbia maculata	4
Velvetleaf	Abutilon theophrasti	4
Venice Mallow	Hibiscus trionum	2
Waterhemps,		
Common	Amaranthus rudis	2
Tall	Amaranthus tuberculatus	2

<sup>&</sup>lt;sup>1</sup> Tank mixes of this product will control the above ground portion of field bindweed. Repeated applications will be needed to control regrowth.

## **CARRIER VOLUME AND SPRAY PRESSURE**

## Hooded, Shielded and Layby Application

To ensure thorough coverage in hooded, shielded and layby applications, use 15 to 30 gallons spray solution per treated acre. Use 20 to 30 gallons per treated acre under heavy weed pressure. Nozzle selection must meet manufacturer's gallonage and pressure specifications for application method being used. **DO NOT** use "Flood Jet" nozzles, as they tend to increase the chance of crop injury.

## **ADDITIVES**

## Hooded, Shielded and Layby Application

Weed control from hooded, shielded or layby application of this product in cotton requires the addition of an agronomically approved non-ionic surfactant to the spray mixture. Non-ionic surfactant must contain at least 80% active ingredient. Verify mixing compatibility qualities by a jar test. The use of crop oil concentrates, methylated seed oils, organo-silicant surfactants or products containing these ingredients may result in severe crop injury.

## **APPLICATION EQUIPMENT**

Apply tank mixes of this product, with ground equipment using standard commercial sprayers equipped with nozzles designed to deliver the desired spray pressure and spray volume. Application equipment must be clean and in good repair. Nozzles must meet manufacturer's specifications for spray pattern and placement on spray boom and must be checked frequently for accuracy.

## **TIMING TO COTTON**

## **Hooded and Shielded Application**

Tank mixes of this product may be applied with a hooded or shielded sprayer after cotton has reached a minimum of 6 inches in height. All nozzles must be under the hood or behind the shield to ensure no spray solution comes in contact with the cotton. Care must be taken to ensure the spray solution or drift does not come in contact with the cotton or severe crop injury can occur.

## **Layby Application**

Layby application of tank mixes of this product may be made once cotton has reached a minimum of 16 inches in height. Cotton that is smaller than 16 inches in height may be injured by applications of this product. Application of this product must be directed to the lower 2 inches of the cotton stem to avoid crop injury.

#### **TIMING TO WEEDS**

Tank mix applications of this product must be made to weeds within the height range given in Table - Emerged Broadleaf Weeds Controlled by Hooded, Shielded and Layby Application of Tank Mixes of This Product With Glyphosate or MSMA in Cotton.

#### **TANK MIXES**

This product must be tank mixed with one of the herbicides listed in Table - Tank Mixes with This Product for Hooded, Shielded and/or Layby Use in Cotton for postemergence control of the weeds listed in Table - Emerged Broadleaf Weeds Controlled by Hooded, Shielded and Layby Application of Tank Mixes of This Product With Glyphosate or MSMA in Cotton.

Table - Tank Mixes for Hooded, Shielded and/or Layby Use in Cotton

TANK MIX PARTNER	TARGET WEEDS	HOODED AND SHIELDED	LAYBY
Glyphosate	Perennial Grasses and Broadleaves	Х	X¹
MSMA	Annual Grasses Yellow Nutsedge	Х	Х

<sup>&</sup>lt;sup>1</sup>For use only in cotton with the Roundup Ready gene.

## DIRECTIONS FOR USE IN CUCURBIT VEGETABLES [1]

[1-Not for use in California.]

#### Cucurbit Vegetables Crop Group 9 Includes:

Chayote (fruit); Chinese Waxgourd (Chinese preserving melon); citron melon; cucumber; gherkin; gourd, edible (includes hyotan, cucuzza, hechima, Chinese okra); *Momordica* spp. (includes balsam apple, balsam pear, bittermelon, Chinese cucumber); muskmelon (includes cantaloupe); pumpkin; squash, summer; squash, winter (includes butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash); watermelon

Many weather related factors, including high wind or heavy rains or cool conditions at or near crop transplanting, may result in crop injury in fields treated with this product. On occasion this has resulted in a delay in maturity. User must assume these risks before using this product.

Read tank mix product label for rate and weeds controlled. Always read and follow label directions for all tank mix products before using. The most restrictive labeling of any tank mix product must be followed. When this product is applied according to label use directions, will control the weeds listed in Table - Weeds Controlled by Residual Activity of This Product. This label makes no claims concerning control of other weed species.

#### RESTRICTIONS AND LIMITATIONS

- DO NOT apply more than 4 fluid ounces of this product (0.125 pound AI) per acre during a single application.
- DO NOT apply more than 8 fluid ounces of this product (0.25 pound AI) per acre per year.
- DO NOT make more than 4 applications per year.
- · Retreatment interval is 14 days.

## [FOR DISTRIBUTION AND USE ONLY WHERE THIRD PARTY INDEMNIFICATION IS IN EFFECT] ROW MIDDLES

#### RESTRICTIONS AND LIMITATIONS

- · DO NOT use with an adjuvant.
- Grow plants on raised plastic mulched beds that are higher than the treated row middle.
- Spray must be directed to the row middle, away from the crop bed and with minimal contact with plastic, including the sides of the bed. If top of mulch beds (where plants are to be transplanted) is contacted, severe injury can occur due to foliage contact with treated plastic. In this scenario, a rainfall event of 1/2 inch (natural or irrigation) must occur prior to transplanting to reduce residues of this product.
- Drift of treated soil particles onto plants may cause contact injury.
- Irrigate treated field after application and prior to transplanting with minimum of 1/4 inch of water if rainfall does not occur between application and transplanting.
- · All applications must be made with hooded or shielded equipment.

#### TIMING TO CUCURBIT VEGETABLES

Apply this product at 4 fluid ounces (0.125 lb ai) per acre as a hooded or shielded application to row middles up to 14 days prior to transplanting or seeding for preemergence control of the weeds listed in Table - **Weeds Controlled by Residual Activity of This Product**, as well as to assist in the postemergence control of emerged weeds. A second application of this product at 4 fluid ounces (0.125 lb ai) per acre may be applied up to 21 days after transplanting or emergence if needed. **DO NOT** apply during or after bloom.

## TIMING TO WEEDS

This product may be used for residual weed control, as well as to assist in postemergence burndown of many annual and perennial weeds in row middles. A registered preemergence grass herbicide may be added for control of additional grassy weeds. For assisting in the control of emerged weeds, tank mix this product with paraquat, Aim™ or other registered burndown herbicide. **DO NOT** tank mix with glyphosate after transplanting. Refer to tank mix partner's label for specified rate and application parameters.

## FALLOWBED USE ON TRANSPLANTED MELON BEDS [including muskmelon (includes cantaloupe); watermelon] [For Use in the States of Arizona, California and Hawaii Only]

NUP-ICP HERBICIDE RATES	ADJUVANT	GPA	TRANSPLANTING INTERVAL
4 oz/A (0.125 lb ai)	Required by burndown tank mix partner	Ground — 20 to 40	2 Months

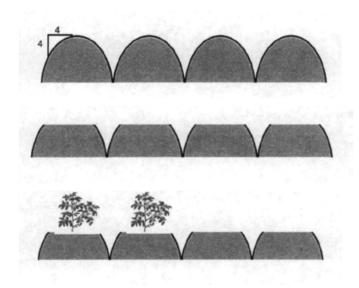
**Application Method:** Apply with a burndown herbicide labeled for the control of emerged weeds. When using this product alone satisfactory control of emerged weeds will not be attained.

#### USE RESTRICTIONS FOR PREEMERGENCE FALLOWBED WEED CONTROL PRIOR TO TRANSPLANTING

- DO NOT apply more than 4 fluid ounces of this product (0.125 pound Al) per acre during a single application.
- DO NOT apply more than 4 fluid ounces of this product (0.125 pound AI) per acre per year.
- DO NOT make more than 4 applications per year.
- Always read and follow all label directions when using any pesticide alone or in tank mix combinations.
- The top 4 inches of the bed, from a horizontal and vertical perspective, where the crop will be transplanted, must be removed prior to transplanting.
- · Use only healthy transplants.
- DO NOT use on direct seeded crops.
- This use pattern makes no claim for in-season weed control after the beds have been disturbed.
- DO NOT apply when weather conditions favor spray drift.
- · Retreatment interval is 30 days.

#### PRECAUTIONS:

• Many weather related factors, including high wind or heavy rains or cool conditions at or near crop transplanting, may result in crop injury in fields treated with this product. On occasion this has resulted in a delay in maturity. User must assume these risks before using this product.



Beds are formed and this product is applied with a burndown herbicide

A minimum of 2 months after application of this product, the tops of the beds are removed and the soil from the tops of the beds is placed in the area between the beds.

Crops are transplanted into beds.

## **DIRECTIONS FOR USE IN DRY BEANS**

[Dried cultivars of bean (*Lupinus*); bean (*Phaseolus*) (includes field bean, kidney bean, lima bean (dry), navy bean, pinto bean, tepary bean); bean (*Vigna*) (includes adzuki bean, blackeyed pea, catjang, cowpea, crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean); broad bean (dry); chickpea; guar; lablab bean and lentil]

## NUP-ICP

## **HARVEST AID**

## **RESTRICTIONS AND LIMITATIONS**

- DO NOT apply more than 3 fluid ounces of this product (0.094 pound AI) per acre during a single application.
- DO NOT apply more than 3 fluid ounces of this product (0.094 pound AI) per acre per year.
- DO NOT make more than 4 applications per year.
- DO NOT harvest within 5 days of application.
- · Retreatment interval is 14 days.

Desiccation from this product requires the addition of an agronomically approved adjuvant to the spray mixture. Use a methylated seed oil which contains at least 15% emulsifiers and 80% oil at 2% v/v. A spray grade nitrogen source (either ammonium sulfate at 2 to 2.5 pounds per acre or a 28 to 32% nitrogen solution at 1 to 2 quarts per acre) may be added to the spray mixture along with either a crop

oil concentrate or methylated seed oil to enhance desiccation. The addition of a nitrogen source does not replace the need for a crop oil concentrate or a methylated seed oil. Tank mixing this product with glyphosate or paraquat will increase control of emerged weeds and aid in harvest. Add a burndown tank mix partner for the control of emerged weeds labeled for dry bean in accordance with the most restrictive labeled limitations and precautions.

#### TIMING TO DRY BEANS

Apply when crop is mature and at least 80% of the pods are yellowing and mostly ripe with no more than 40% (bush type beans) or 30% (vine type beans) of the leaves still green in color. Dry beans can be harvested 5 days after application. To ensure thorough coverage use 15 to 30 gallons spray solution per acre. Nozzle selection must meet manufacturer's gallonage and pressure specifications for postemergence application.

## DIRECTIONS FOR USE FOR WEED SUPPRESSION IN DRY BEANS For Use Only in Arizona, Colorado, Hawaii, Idaho, Nebraska, Oregon and Washington

Dried cultivars of bean (*Lupinus*); bean (*Phaseolus*) (includes field bean, kidney bean, lima bean (dry), navy bean, pinto bean, tepary bean); bean (*Vigna*) (includes adzuki bean, blackeyed pea, catjang, cowpea, crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean); broad bean (dry); chickpea; guar; lablab bean and lentil

## **RESTRICTIONS AND LIMITATIONS**

- DO NOT apply more than 1.5 fluid ounces of this product (0.047 pound AI) per acre during a single application.
- DO NOT apply more than 1.5 fluid ounces of this product (0.047 pound AI) per acre per year.
- DO NOT make more than 4 applications per year.
- Retreatment interval is 14 days.

Many weather related factors, including high wind, splashing or heavy rains or cool conditions at or near crop emergence, may result in dry bean injury in fields treated with this product. On occasion this has resulted in a delay in maturity. User must assume these risks before using this product.

## **TIMING TO DRY BEAN**

This product may be applied to dry beans within 2 days after planting for the preemergence suppression of the weeds listed in Table – Weeds Suppressed by Residual Activity of This Product at 1.5 Fluid Ounces (0.047 lb ai) per Acre. Tank mix this product with other labeled herbicides for broad spectrum weed control.

#### **TIMING TO WEEDS**

This product may be applied to dry beans prior to planting or preemergence (after planting). Preemergence application of this product must be made within 2 days after planting and prior to dry bean emergence. To avoid severe crop injury, **DO NOT** apply to dry beans after beans begin to crack or have emerged.

Preplant incorporation (PPI) applications may result in reduced weed control.

## ADDITIONAL RESIDUAL GRASS CONTROL

This product can be tank mixed with pendimethalin for additional grass control.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

When this product is applied according to label use directions, will suppress the weeds listed in Table - Weeds Suppressed by Residual Activity of This Product at 1.5 Fluid Ounces (0.047 lb ai) per Acre. This label makes no claims concerning other weed Species.

Table - Weeds Suppressed by Residual Activity of This Product at 1.5 Fluid Ounces (0.047 lb ai) per Acre

COMMON NAME	SCIENTIFIC NAME	ORGANIC MATTER	NUP-ICP HERBICIDE RATE
Lambsquarters, Common	Chenopodium album	Up to 5%	1.5 oz/A(0.047 lb ai)
Mustard, Wild	Brassica kaber		
Nightshades,			
Black	Solanum nigrum		
Eastern Black	Solanum ptycanthum		
Hairy	Solanum sarrachoides		
Palmer Amaranth	Amaranthus palmeri		
Pigweeds,		]	
Redroot	Amaranthus retroflexus		
Smooth	Amaranthus hybridus		
Spiny Amaranth	Amaranthus spinosus		
Tumble	Amaranthus albus		

Prickly Lettuce	Lactuca serriola	
Prickly Sida (Teaweed)		
Radish, Wild	Tribulus terrestris	

## DIRECTIONS FOR USE IN FIELD CORN RESTRICTIONS AND LIMITATIONS

- DO NOT apply more than 3 fluid ounces of this product (0.094 pound AI) per acre during a single application.
- DO NOT apply more than [2 fluid ounces] [3 fluid ounces] of this product [(0.063 pound AI)] [(0.094 pound AI)] per acre during a single year.
- DO NOT make more than 4 applications per year.
- · Use only on no-till or minimum tillage fields where last year's crop residue has not been incorporated into the soil.
- · Corn must be planted between 14 and 30 days after application unless the application is made as part of a Fall burndown program.
- Corn can be planted 7 days after an application of 2 fluid ounces (0.063 lb ai) per acre if a minimum of 25% of the soil surface is covered with the residue of the preceding crop and a minimum of 1/4 inch of rainfall has occurred between application and planting.
- DO NOT irrigate between emergence and 2-leaf corn
- DO NOT use on popcorn, sweet corn or corn grown for seed.
- · Retreatment interval is 14 days.

## **TIMING TO FIELD CORN**

- Apply this product, at 2 to 3 fluid ounces (0.063-0.094 lb ai) per acre, between 7 and 30 days prior to planting field corn, for the preemergence control of the weeds listed in Table **Broadleaf Weeds Controlled by Residual Activity of This Product**.
- Apply this product at 2 fluid ounces (0.063lb ai) per acre between 7 and 30 days prior to planting field corn if a minimum of 25% of the soil surface is covered with the residue of the preceding crop and a minimum of 1/4 inch of rainfall has occurred between application and planting.
- · Apply this product at 3 fluid ounces (0.063lb ai) per acre between 14 and 30 days prior to planting field corn.

#### **Burndown Use Directions - For Preplant Applications in Field Corn**

This product, applied as part of a burndown program, may be used for residual weed control, as well as to assist in postemergence burndown of many weeds where field corn will be planted directly into the residue of the previous year. See Directions for Use in Fall and Spring Preplant Burndown and Fallow Seedbed Programs in Field Corn, Peanut and Soybean for rates and timing of applications. For control of emerged weeds, this product must be applied with an appropriate burndown tank mix partner listed in Table - **Tank Mix Partners for Burndown and/or Residual Control of Weeds in Field Corn**. To ensure thorough coverage, use a minimum of 15 gallons of spray solution per acre. Refer to tank mix partner's label for specified application pressure and adjuvant systems.

## INCREASING SPEED OF GLYPHOSATE BURNDOWN ACTIVITY

This product, at 1 fluid ounce (0.031lb ai) per acre, may be tank mixed with glyphosate to increase the speed of burndown activity compared to glyphosate applied alone. Residual weed control will not be provided at rates lower than 2 fluid ounces (0.063lb ai) per acre; however, suppression of the weeds in Table - **Weeds Suppressed by Residual Activity of This Product** may occur at rates of this product as low as 1 fluid ounce (0.031lb ai) per acre. Applications of this product at 1 fluid ounce (0.031lb ai) per acre must be made a minimum of 14 days prior to planting field corn.

### **TANK MIXES**

This product may be tank mixed with the herbicides listed in Table - **Tank Mix Partners for Burndown and/or Residual Control of Weeds in Field Corn** for pre-plant burndown applications. Refer to tank mix partner's label for adjuvant directions.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Table - Tank Mix Partners for Burndown and/or Residual Control of Weeds in Field Corn

TANK MIX PARTNERS <sup>1</sup>			
2,4-D LVE	Paraquat		
Atrazine	Flumetsulam		
Rimsulfuron	2,4-D 2-Ethylhexyl Ester		
Simazine			
Dicamba			
Tribenuron methyl			
Glyphosate			
Clopyralid			
Metribuzin			

<sup>&</sup>lt;sup>1</sup> Refer to tank mix product labels for specific directions.

#### TANK MIX RESTRICTIONS

Tank mixes with flufenacet, metolachlor or s-metolachlor, dimethenamid or dimethenamid-p, alachlor, or acetochlor may result in injury to field corn when application is followed by prolonged periods of cool wet weather. **DO NOT** use them with this product unless significant injury is acceptable, or, unless supplemental labeling, provided by Nufarm, is followed.

## **DIRECTIONS FOR USE IN FIELD PEAS**

For use in Idaho, Montana, Oregon and Washington only.

#### **WEED CONTROL**

#### **RESTRICTIONS AND LIMITATIONS**

- DO NOT apply more than 2 fluid ounces of this product (0.063 pound AI) per acre during a single application.
- DO NOT apply more than 2 fluid ounces of this product (0.063 pound AI) per acre per year.
- DO NOT make more than 4 applications per year.
- · Retreatment interval is 14 days.

Many weather related factors, including high wind, splashing or heavy rains or cool conditions at or near crop emergence, may result in pea injury in fields treated with this product. On occasion this has resulted in a delay in maturity. Assume these risks before using this product.

#### **TIMING TO FIELD PEAS**

This product may be applied to field peas within 2 days after planting for the preemergence control of the weeds listed in Table - Broadleaf Weeds Controlled by Residual Activity of This Product or Table - Weeds Suppressed by Residual Activity of This Product. Tank mix this product with other labeled herbicides for broadspectrum weed control.

#### TIMING TO WEEDS

This product may be applied to field peas prior to planting or preemergence (after planting). Preemergence application of this product must be made within 2 days after planting and prior to field pea emergence. To avoid severe crop injury, **DO NOT** apply to field peas after peas begin to crack or have emerged. Preplant incorporation (PPI) applications may result in reduced weed control.

### ADDITIONAL RESIDUAL GRASS CONTROL

This product can be tank mixed with pendimethalin for additional grass control.

## **HARVEST AID**

## RESTRICTIONS AND LIMITATIONS

- DO NOT apply more than 3 fluid ounces of this product (0.094 pound AI) per acre during a single application.
- DO NOT apply more than 3 fluid ounces of this product (0.094 pound AI) per acre per year.
- DO NOT harvest within 5 days of application.
- DO NOT apply more than 1 application per year.

Desiccation from this product requires the addition of an agronomically approved adjuvant to the spray mixture. Use a methylated seed oil which contains at least 15% emulsifiers and 80% oil at 1 quart per acre. A spray grade nitrogen source (either ammonium sulfate at 2 to 2.5 lbs per acre or a 28 to 32% nitrogen solution at 1 to 2 quarts per acre) may be added to the spray mixture along with methylated seed oil to enhance desiccation. The addition of a nitrogen source does not replace the need for methylated seed oil. Tank mixing this product with glyphosate will increase control of emerged weeds and aid in harvest.

## **TIMING TO FIELD PEAS**

Apply this product, at 1.5 to 2 fluid ounces (0.047-0.063 lb ai) per acre, when crop is physiologically mature and a minimum of 80% of the pods are yellow to tan in color and 20% are yellow in color. If field peas are treated too early, a reduction in seed quality may occur. **DO NOT** spray this product on any area of the field with a significant amount of plants with green color. Peas can be harvested 5 days after application.

To ensure thorough coverage, use 15 to 30 gallons of spray solution per acre and select nozzle type using manufacturer's gallonage and pressure specifications for postemergence application.

## DIRECTIONS FOR USE IN FLAX HARVEST AID

## RESTRICTIONS AND LIMITATIONS

• DO NOT apply more than 3 fluid ounces of this product (0.094 pound AI) per acre during a single application.

- DO NOT apply more than 3 fluid ounces of this product (0.094 pound AI) per acre per year.
- DO NOT make more than 4 applications per year.
- DO NOT harvest within 5 days of application.
- · Retreatment interval is 14 days.

Desiccation from this product requires the addition of an agronomically approved adjuvant to the spray mixture. Use a methylated seed oil which contains at least 15% emulsifiers and 80% oil at 1 quart per acre. A spray grade nitrogen source (either ammonium sulfate at 2 to 2.5 lbs per acre or 28 to 32% nitrogen solution at 1 to 2 quarts per acre) may be added to the spray mixture along with methylated seed oil to enhance desiccation. The addition of a nitrogen source does not replace the need for methylated seed oil.

#### **TIMING TO FLAX**

Apply this product, at 1.5 to 2 fluid ounces (0.047-0.063 lb ai) per acre, when crop is physiologically mature and at least 75% of the bolls are brown in color. Flax can be harvested 5 days after application. To ensure thorough coverage, use 15 to 30 gallons of spray solution per acre and select nozzle type using manufacturer's gallonage and pressure specifications for postemergence application.

## DIRECTIONS FOR USE IN FRUITING VEGETABLES [1]

[1-Not for use in California.]

#### Fruiting Vegetable Crop Group 8-10 Includes:

African eggplant; Bush Tomato; Bell Pepper; Cocona; Currant Tomato; Eggplant, Garden Huckleberry; Goji Berry; Groundcherry, Martynia; Naranjilla; Okra, Pea Eggplant; Pepino; Nonbell Pepper; Roselle; Scarlet Eggplant; Sunberry; Tomatillo; Tomato; Tree Tomato; cultivars, varieties and/or hybrids of these.

Many weather related factors, including high wind or heavy rains or cool conditions at or near crop transplanting, may result in crop injury in fields treated with this product. On occasion this has resulted in a delay in maturity. User must assume these risks before using this product.

#### RESTRICTIONS AND LIMITATIONS

- DO NOT apply more than 4 fluid ounces of this product (0.125 pound AI) per acre during a single application.
- DO NOT apply more than 8 fluid ounces of this product (0.25 pound AI) per acre per year.
- DO NOT make more than 4 applications per year.
- · Retreatment interval is 14 days.

### **ROW MIDDLES**

## [FOR DISTRIBUTION AND USE ONLY WHERE THIRD PARTY INDEMNIFICATION IS IN EFFECT] PRECAUTIONS

- · Grow plants on raised or plastic mulched beds that are higher than the treated row middle.
- Spray must be directed to the row middle, away from the crop bed and with minimal contact with plastic, including the sides of the bed. If top of mulch beds (where plants are to be transplanted) is contacted, severe injury can occur due to foliage contact with treated plastic. In this scenario, a rainfall event of 1/2 inch (natural or irrigation) must occur prior to transplanting to reduce residues of this product.
- Injury can occur if soil particles treated with this product contact the crop.
- Irrigate treated field after application and prior to transplanting with minimum of 1/4 inch of water if rainfall does not occur between application and transplanting.
- · All applications must be made with hooded or shielded equipment.

## TIMING TO FRUITING VEGETABLES

Apply this product at 4 oz (0.125lb ai) per acre as a hooded or shielded application to row middles up to 14 days prior to transplanting or seeding for preemergence control of the weeds listed in Table - **Broadleaf Weeds Controlled by Residual Activity of This Product**, as well as to assist in the postemergence control of emerged weeds. A second application of this product at 4 oz per (0.125lb ai) acre may be applied up to 21 days after transplanting or emergence if needed. **DO NOT** apply during or after bloom.

## **TIMING TO WEEDS**

This product may be used for residual weed control, as well as to assist in postemergence burndown of many annual and perennial weeds in row middles. A registered preemergence grass herbicide may be added for control of additional grassy weeds. For assisting in the control of emerged weeds, tank mix this product with paraquat, Aim™ or other registered burndown herbicide. **DO NOT** tank mix with glyphosate after transplanting or crop emergence. Refer to tank mix partner's label for specified rate and application parameters.

## FALLOWBED USE ON TRANSPLANTED MELON, PEPPER AND TOMATO BEDS [For use in Arizona, California and Hawaii only]

NUP-ICP HERBICIDE RATES	ADJUVANT	GPA	TRANSPLANTING INTERVAL
4 oz/A (0.125lb ai)	Required by burndown tank mix partner	Ground – 20 to 40	2 Months

Application Method: Apply with a burndown herbicide labeled for the control of emerged weeds.

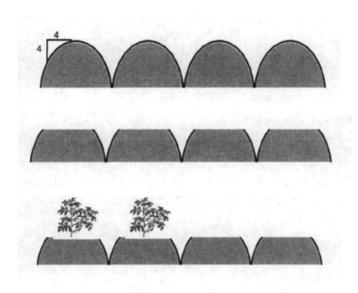
When this product is used alone it will not provide satisfactory control of emerged weeds.

#### USE RESTRICTIONS FOR PREEMERGENCE FALLOWBED WEED CONTROL PRIOR TO TRANSPLANTING

- DO NOT apply more than 4 fluid ounces of this product (0.125 pound AI) per acre during a single application.
- DO NOT apply more than 4 fluid ounces of this product (0.125 pound Al) per acre per year.
- DO NOT make more than 4 applications per year.
- · Retreatment interval is 14 days.
- Always read and follow all label directions when using any pesticide alone or in tank mix combinations.
- Irrigate treated field after application and prior to transplanting with minimum of 1/4 inch of water if rainfall does not occur between application and transplanting.
- The top 4 inches of the bed, from a horizontal and vertical perspective, where the crop will be transplanted, must be removed prior to transplanting.
- Use only healthy transplants. DO NOT use on direct seeded crops.
- [On flat beds (tomato only), the soil must be incorporated to a depth of at least 4 inches, twice, prior to transplanting. Failure to incorporate may result in stand reduction and/or crop injury.]
- · This use pattern makes no claim for in-season weed control after the beds have been disturbed.
- DO NOT apply when weather conditions favor spray drift.

#### PRECAUTIONS:

• Many weather related factors, including high wind or heavy rains or cool conditions at or near crop transplanting, may result in crop injury in fields treated with this product. On occasion this has resulted in a delay in maturity. User must assume these risks before using this product.



Beds are formed and this product is applied with a burndown herbicide.

A minimum of 2 months after application of this product, the tops of the beds are removed and the soil from the tops of the beds is placed in the area between the beds.

Crops are transplanted into beds.

## DIRECTIONS FOR USE IN GARLIC RESTRICTIONS AND LIMITATIONS

- DO NOT apply more than 6 fluid ounces of this product (0.188 pound Al) per acre during a single application.
- DO NOT apply more than 6 fluid ounces of this product (0.188 pound AI) per acre per year.
- DO NOT make more than 4 applications per year.
- · Retreatment interval is 14 days.

## **TIMING TO GARLIC**

This product may be applied, at 6 fluid ounces (0.188 pound AI) per acre, to garlic prior to garlic emergence. Apply within 3 days after planting garlic.

#### **TIMING TO WEEDS**

#### Preemergence - Preemergence To Weeds

Apply this product to weed free garlic for preemergence control of the weeds listed in Table - Weeds Controlled by Preemergence Application of This Product.

#### **DIRECTIONS FOR USE IN HOPS**

#### [Not For Use in California or New York]

#### **RESTRICTIONS AND LIMITATIONS**

- DO NOT apply more than 6 fluid ounces of this product (0.188 pound AI) per acre during a single application.
- DO NOT apply more than 6 fluid ounces of this product (0.188 pound AI) per acre during a single year.
- DO NOT make more than 4 applications per year.
- DO NOT allow spray to contact green stem (Unless used for sucker control), foliage, flowers or cones or unacceptable injury may
- DO NOT apply within 30 days of harvest.
- · DO NOT use with an adjuvant.
- · Retreatment interval is 14 days.

This product can be used in hops for preemergence weed control as well as sucker control.

#### TIMING TO HOPS FOR SUCKER CONTROL

Apply this product at 6 fluid ounces (0.188 pound ai) per acre as a directed application after hops have reached a minimum of 6 feet in height for sucker control. Apply to lower 2 feet of the hops.

## TIMING TO HOPS FOR PREEMERGENCE WEED CONTROL

Apply this product at 6 fluid ounces(0.188lb ai) per acre as a 1 to 1.5 foot band to each side of the hop row, to dormant hops November thru February to ensure time for rain incorporation and activation. If weeds are emerged at the time of application, tank mix this product with a labeled burndown herbicide including paraquat or glyphosate to assist with control of emerged weeds. **DO NOT** mow or rake over treated areas, as dust created by mowing may drift onto sensitive crops or vegetation resulting in injury.

## **TIMING TO WEEDS**

Applications of this product must be made prior to weed emergence for control of weeds listed in Table - **Weeds Controlled by Preemergence Application of This Product**.

This product, when applied according to label use directions, will control the weeds listed in Table - Weeds Controlled by Preemergence Application of This Product. This label makes no claims concerning control of other weed species.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

## **DIRECTIONS FOR USE IN LENTILS**

## **HARVEST AID**

## RESTRICTIONS AND LIMITATIONS

- DO NOT apply more than 3 fluid ounces of this product (0.094 pound AI) per acre during a single application.
- DO NOT apply more than 3 fluid ounces of this product (0.094 pound AI) per acre per year.
- DO NOT make more than 4 applications per year.
- DO NOT harvest within 5 days of application.
- Retreatment interval is 14 days.

Desiccation from this product requires the addition of an agronomically approved adjuvant to the spray mixture. Use a methylated seed oil which contains at least 15% emulsifiers and 80% oil at 1 quart per acre. A spray grade nitrogen source (either ammonium sulfate at 2 to 2.5 pounds per acre or a 28 to 32% nitrogen solution at 1 to 2 quarts per acre) may be added to the spray mixture along with methylated seed oil to enhance desiccation. The addition of a nitrogen source does not replace the need for methylated seed oil. Tank mixing this product with glyphosate or paraquat will increase control of emerged weeds and aid in harvest.

#### **TIMING TO LENTILS**

Apply this product, at 1.5 to 2 fluid ounces (0.147-0.063 lb ai) per acre, when crop is physiologically mature and a minimum of 80% of the pods are yellow to tan in color and 20% are yellow in color. If lentils are treated to early, a reduction in seed quality may occur. **DO NOT** spray this product on any area of the field with a significant amount of plants with green color. Lentils can be harvested 5 days after application.

To ensure thorough coverage, use 15 to 30 gallons of spray solution per acre and select nozzle type using manufacturer's gallonage and pressure specifications for postemergence application.

Table - Weeds Controlled by Residual Activity of This Product

DDOAD! FAE WEED ODEOLEO						
BROADLEAF WEED SPECIES COMMON NAME	SCIENTIFIC NAME	ORGANIC MATTER	SOIL TYPE	NUP-ICP HERBICIDE RATE		
Bristly Starbur	Acanthospermum hispidum	Up to 5%	All Soil Types	4 oz/A (0.125lb ai)		
Carpetweed	Mollugo verticillata	OP 10 3 70	All Coll Types	4 02/A (0.12515 al)		
Chickweeds,						
Common	Stellaria media					
Mouseear	Cerastium vulgatum					
Coffee Senna	Cassia occidentalis					
Copperleaf, Hophornbeam	Acalypha ostryifolia					
Dandelion	Taraxacum officinale					
Dodder (suppression only) <sup>1, [2]</sup>	Cuscuta spp.					
Eclipta	Eclipta prostrata					
Eveningprimrose, Cutleaf	Oenothera laciniata					
False Chamomile	Tripleurospermum maritima					
Fiddleneck, Coast <sup>[2]</sup>	Amsinckia menziesii					
Field Pennycress <sup>[2]</sup>	Thlaspi arvense					
Fleabane, Hairy	Conyza bonariensis					
Flixweed	Descurainia spophia					
Florida Beggarweed	Desmodium tortuosum					
Florida Pusley	Richardia scabra					
Golden Crownbeard	Verbesina encelioides					
Groundsel, Common	Senecio vulgaris					
Hairy Indigo	Indigofera hirsute					
Hemp Sesbania						
·	Sesbania exaltata					
Henbit	Lamium amplexicaule					
Jimsonweed	Datura stramonium					
Kochia	Kochia scoparia					
Lambsquarters, Common	Chenopodium album					
Little Mallow	Malva parviflora					
London Rocket	Sisymbrium irio					
Marestail/Horseweed	Conyza canadensis					
Mayweed/False Chamomile	Matricaria maritima					
Morningglories,	Inamaga hadaraasa yar intagriyaayla					
Entireleaf	Ipomoea hederacea var. integriuscula					
Ivyleaf	Ipomoea hederacea					
Red/Scarlet	Ipomoea coccinea					
Smallflower	Jacquemontia tamnifolia					
Tall	Ipomoea purpurea					
Mustard, Tansy	Descurainia pinnata					
Tumble	Sisymbrium altissimum					
Wild	Brassica kaber					
Nettle, Burning	Urtica urens					
Nightshades,	Ortica drens					
Black	Solanum nigrum					
Eastern Black	Solanum ptycanthum					
Hairy	Solanum sarrachoides					
Pigweeds,						
Palmer Amaranth	Amaranthus palmeri					
Redroot	Amaranthus retroflexus					
Smooth	Amaranthus hybridus					
Spiny Amaranth	Amaranthus spinosus					
Tumble	Amaranthus albus					
Prickly Lettuce (China Lettuce)	Lactuca serriola					
, (3a <b>_</b>			<u> </u>			

Prickly Sida (Teaweed)	Sida spinosa
Puncturevine	Tribulus terrestris
Purslane.	Thouas terresures
Common	Portulaca oleracea
Horse	Trianthema portulacastrum
Radish, Wild	Raphanus raphanistrum
Ragweed, Common	Ambrosia artemisiifolia
	Calandrinia ciliata var. menziesii
Redmaids	
Russian Thistle	Salsola iberica
Shepherd's-purse	Capsella bursa-pastoris
Smartweeds,	
Ladysthumb	Polygonum persicaria
Pennsylvania	Polygonum pensylvanicum
Smellmelon <sup>[2]</sup>	Cucumis melo
Sowthistle, Prickly <sup>[2]</sup>	Sonchus asper
Spotted Spurge	Euphorbia maculata
Spurred Anoda	Anoda cristata
Tropic Croton	Croton glandulosus
Velvetleaf	Abutilon theophrasti
Venice Mallow	Hibiscus trionum
Waterhemps,	
Common	Amaranthus rudis
Tall	Amaranthus tuberculatus
White Cockle	Silene latifolia
Wild Poinsettia	Euphorbia heterophylla
Wormwood, Biennial	Artemisia biennis
Yellow Rocket	Barbarea vulgaris
GRASS WEED SPECIES	5
Barnyardgrass	Echinochloa crus-galli
Bluegrass, Annual	Poa annua
Crabgrass, Large	Digitaria sanguinalis
Foxtail, Giant	Setaria faberi
Goosegrass	Eleusine indica
Lovegrass, California	Eragrostis diffusa
Panicums,	
Fall	Panicum dichotomiflorum
Texas	Panicum texanum
Ryegrass, Italian	Lolium multiflorum
Signalgrass, Broadleaf	Brachiaria platyphylla

<sup>&</sup>lt;sup>1</sup>This product at 4 fluid ounces (0.125lb ai) per acre will provide postemergence dodder<sup>2</sup> suppression when applied in combination with imazethapyr at labeled rates. The use of imazethapyr require the use of a NIS, which will result in burn and stunting of alfalfa. Growers must expect and accept this prior to using this tank mix.

# **DIRECTIONS FOR USE IN MINT**

# (Peppermint and Spearmint)

# **RESTRICTIONS AND LIMITATIONS**

- DO NOT apply more than 4 fluid ounces of this product (0.125 pound AI) per acre during a single application.
- DO NOT apply more than 8 fluid ounces of this product (0.25 pound AI) per acre during a single year.
- DO NOT make more than 4 applications per year.
- Retreatment interval is 60 days.
- Apply only to dormant mint. Application to non-dormant mint may result in unacceptable crop injury.
- DO NOT apply within 80 days of harvest.

<sup>&</sup>lt;sup>[2</sup> Not for use in California.]

### **PRECAUTIONS**

### To avoid crop injury

- DO NOT apply to stands established longer than 3 years.
- DO NOT apply a Fall application if roots and rhizomes are weak, thin or damaged.
- DO NOT apply this product on mint in Southern Union County (south of Ladd Canyon) or Baker County in Oregon.
- DO NOT apply to row or baby mint, use only on established meadow mint.
- DO NOT apply to mint that has been weakened by diseases, insects (example mint root borer), nematodes, drought, soil salts, high soil pH, previous pesticides, winter injury or double cutting, as severe injury may occur. Apply only to healthy vigorous mint with undamaged rhizomes.
- DO NOT apply before November 25 or after March 1.

Many weather related factors, including high wind, splashing or heavy rains or cool conditions at or near mint emergence, may result in mint injury in fields treated with this product. User must assume these risks before using this product.

Tank mixes with labeled rates of paraquat are directed to control emerged weeds and increase crop safety.

### **TIMING TO MINT**

As a spray, this product may be applied only to established, dormant mint for preemergence control of the weeds listed in Table - **Weeds Controlled by Residual Activity of This Product**, as well as to assist in the postemergence control of emerged weeds. Application to non-dormant mint or to baby (row) mint (time from planting of mint roots through the first cutting), may result in unacceptable crop injury. As a bulk fertilizer application, this product may be applied at least 80 days prior to harvest. Leaves must be dry at the time of applications or severe injury may occur.

### **TIMING TO WEEDS**

### **Burndown - Dormant Mint, Postemergence To Weeds**

This product may be used for residual weed control, as well as to assist in postemergence burndown of many annual and perennial weeds where established mint is dormant. For control of emerged weeds, tank mix this product with paraquat. Refer to paraquat label for specified rate and application parameters. To ensure thorough coverage, use a minimum of 15 gallons of spray solution per acre. Tank mixes of this product applied to assist in the control of emerged weeds must be applied with a non-ionic surfactant at 0.25% v/v. A spray grade nitrogen source (either ammonium sulfate at 2 to 2.5 pound per acre, or 28 to 32% nitrogen solution at 1 to 2 quarts per acre) maybe added to increase herbicidal activity.

### Preemergence - Dormant Mint, Preemergence To Weeds

Apply this product to dormant mint for the preemergence control of weeds listed in Table - **Weeds Controlled by Residual Activity of This Product**. Fall applications of this product, followed by a sequential application in the Spring, have resulted in better Summer annual weed control than a single Fall or single Spring application.

Fall application is most effective for Fall germinating weeds for example, groundsel. Fields plowed or harrowed after an application of this product will result in less effective preemergence activity. In furrow irrigated fields, corrugating that is done after an application of this product will expose untreated soil and break the herbicide barrier resulting in poor weed control.

Table - Weeds Controlled by Residual Activity of This Product

BROADLEAF WEED SPECIES		ORGANIC	SOIL	NUP-ICP
COMMON NAME	SCIENTIFIC NAME	MATTER	TYPE	HERBICIDE RATE
Bristly Starbur	Acanthospermum hispidum	Up to 5%	All Soil Types	4 oz/A (0.125 lb ai)
Carpetweed	Mollugo verticillata			
Chickweeds,				
Common	Stellaria media			
Mouseear	Cerastium vulgatum			
Coffee Senna	Cassia occidentalis			
Copperleaf, Hophornbeam	Acalypha ostryifolia			
Dandelion	Taraxacum officinale			
Dodder (suppression only) <sup>1, [2]</sup>	Cuscuta spp.			
Eclipta	Eclipta prostrata			
Eveningprimrose, Cutleaf	Oenothera laciniata			
False Chamomile	Tripleurospermum maritima			
Fiddleneck, Coast <sup>[2]</sup>	Amsinckia menziesii			
Field Pennycress <sup>[2]</sup>	Thlaspi arvense			
Fleabane, Hairy <sup>[2]</sup>	Conyza bonariensis			
Flixweed	Descurainia spophia			
Florida Beggarweed	Desmodium tortuosum			
Florida Pusley	Richardia scabra			

Golden Crownbeard	Verbesina encelioides	
Groundsel, Common	Senecio vulgaris	1
Hairy Indigo	Indigofera hirsute	
Hemp Sesbania	Sesbania exaltata	1
Henbit	Lamium amplexicaule	1
Jimsonweed	Datura stramonium	j
Kochia	Kochia scoparia	j
Lambsquarters, Common	Chenopodium album	
Little Mallow	Malva parviflora	
London Rocket	Sisymbrium irio	
Marestail/Horseweed	Conyza canadensis	
Mayweed/False Chamomile	Matricaria maritima	
Morningglories,		
Entireleaf	Ipomoea hederacea var. integriuscula	
lvyleaf	Ipomoea hederacea	
Red/Scarlet	Ipomoea coccinea	
Smallflower	Jacquemontia tamnifolia	
Tall	Ipomoea purpurea	
Mustard,		
Tansy	Descurainia pinnata	
Tumble	Sisymbrium altissimum	
Wild	Brassica kaber	
Nettle, Burning	Urtica urens	
Nightshades,		
Black	Solanum nigrum	
Eastern Black	Solanum ptycanthum	
Hairy	Solanum sarrachoides	
Pigweeds,		
Palmer Amaranth	Amaranthus palmeri	
Redroot	Amaranthus retroflexus	
Smooth	Amaranthus hybridus	ļ
Spiny Amaranth	Amaranthus spinosus	
Tumble	Amaranthus albus	
Prickly Lettuce (China Lettuce)	Lactuca serriola	
Prickly Sida (Teaweed)	Sida spinosa	
Puncturevine	Tribulus terrestris	
Purslane,	1	
Common	Portulaca oleracea	
Horse	Trianthema portulacastrum	
Radish, Wild	Raphanus raphanistrum	
Ragweed, Common	Ambrosia artemisiifolia	
Redmaids	Calandrinia ciliata var. menziesii	
Russian Thistle	Salsola iberica	
Shepherd's-purse	Capsella bursa-pastoris	
Smartweeds,		1
Ladysthumb	Polygonum persicaria	1
Pennsylvania	Polygonum pensylvanicum	ļ
Smellmelon <sup>[2]</sup>	Cucumis melo	
Sowthistle, Prickly <sup>[2]</sup>	Sonchus asper	
Spotted Spurge	Euphorbia maculata	
Spurred Anoda	Anoda cristata	1
Tropic Croton	Croton glandulosus	1
Velvetleaf		1
	Abutilon theophrasti	
Venice Mallow	Hibiscus trionum	

Waterhemps,		
Common	Amaranthus rudis	
Tall	Amaranthus tuberculatus	
White Cockle <sup>[2]</sup>	Silene latifolia	
Wild Poinsettia	Euphorbia heterophylla	
Wormwood, Biennial	Artemisia biennis	
Yellow Rocket	Barbarea vulgaris	
GRASS WEED SPECIES	<u> </u>	
Barnyardgrass	Echinochloa crus-galli	
Bluegrass, Annual	Poa annua	
Crabgrass, Large	Digitaria sanguinalis	
Foxtail, Giant	Setaria faberi	
Goosegrass	Eleusine indica	
Lovegrass, California	Eragrostis diffusa	
Panicums,	L	
Fall	Panicum dichotomiflorum	
Texas	Panicum texanum	
Ryegrass, Italian	Lolium multiflorum	
Signalgrass, Broadleaf	Brachiaria platyphylla	

<sup>&</sup>lt;sup>1</sup>This product at 4 fluid ounces (0.125 lb ai) per acre will provide postemergence dodder<sup>2</sup> suppression when applied in combination with imazethapyr at labeled rates. The use of imazethapyr require the use of a NIS, which will result in burn and stunting of alfalfa. Growers must expect and accept this prior to using this tank mix.

# **DIRECTIONS FOR USE IN ONION (DRY BULB)**

[For Use in the States of Michigan, New York, North Dakota and Wisconsin Only]

[For chemigation applications on potato follow CHEMIGATION - ONION (DRY BULB) section below.]

### **RESTRICTIONS AND LIMITATIONS**

- DO NOT apply more than 2 fluid ounces of this product (0.063 pound AI) per acre during a single application.
- DO NOT apply more than 3 fluid ounces of this product (0.094 pound AI) per acre per year.
- DO NOT make more than 6 applications per year.
- Retreatment interval is 14 days.
- DO NOT apply within 45 days of harvest.
- DO NOT apply more than 1 fluid ounce (0.031 lb ai) of this product per year on soils that contain greater than 90% sand plus gravel.
- DO NOT apply with any type of adjuvant.

### **PRECAUTION**

• DO NOT apply as part of a tank mix, other than with Prowl®  $H_2$ 0 (EPA Reg # 241-418, pendimethalin), or unacceptable injury may result. DO NOT tank mix other formulations of pendimethalin with this product for use in onions.

Use of this product may result in necrotic spotting of onion leaves that come in contact with the spray. User must assume this potential crop response before using this product.

### [Microrate Application]

Sequential applications of this product may be applied to onions (dry bulb), between the 2-leaf and 6-leaf stage, at rates of 0.5 to 1 fluid ounce (0.016-0.031 lb ai) per acre, on a 7 day interval.]

# **TIMING TO ONIONS (Dry Bulb)**

Apply this product to transplanted onions (dry bulb) between the 2-leaf and 6-leaf stage and on direct seed onions (dry bulb) between the 3-leaf and 6-leaf stage.

### **TIMING TO WEEDS**

# Preemergence - Emerged Onions (dry bulb), Preemergence To Weeds

Apply this product to weed free onions (dry bulb) for preemergence control of the weeds listed in Table - **Broadleaf Weeds Controlled** by Residual Activity of This Product, Section A.

<sup>[2</sup> Not for use in California.]

# [CHEMIGATION - ONION (DRY BULB)

This product may be applied through sprinkler irrigation systems in onions (dry bulb). Follow all label instructions for these crops regarding rates, timing of application, special instructions and precautions.

Apply this product only through center pivot systems. End guns must be turned off due to uneven application. **DO NOT** apply this product through any other type of irrigation system.

Crop injury, lack of efficacy or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

The system must be properly calibrated (with water only) to ensure that the amount of this product applied corresponds to the specified rate

Apply this product in 1/2 to 3/4 inches of water during the first sprinkler set. Allow time for all lines to flush the herbicide through all nozzles before turning off irrigation water. To ensure the lines are flushed and free of remaining herbicide, a dye indicator may be injected into the lines to mark the end of the application period. Once chemigation has begun, the run must be completed to ensure no product is left in the system.

If you have any questions about calibration, contact your State Extension Service Specialist, equipment manufacturers or other experts.

### **Special Precautions for Chemigation**

- 1. **DO NOT** connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
- A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments in the event the need arises.
- 3. The system must be free of leaks and clogged nozzles.
- 4. The pesticide must be supplied continuously for the duration of the aqueous application. An uneven application may cause injury to the crop or poor weed control.
- 5. Agitation must be maintained in the nurse tank.
- 6. The sprinkler chemigation system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- 7. The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of fluid back toward the injection pump.
- 8. The pesticide injection pipeline must contain a functional, normally closed, solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- 9. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in the case where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 10. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 11. Systems must use a metering pump, for example a positive displacement injection pump (e.g., diaphragm pump), effectively designed and constructed of materials that are compatible with the pesticides and capable of being fitted with a system interlock.
- 12. **DO NOT** apply when wind speed favors drift beyond the area intended for treatment.

# Chemigation Systems Connected to Public Water Systems

- 1. Public water system means a system for the provision to the public of piped water for human consumption, if such a system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
- 2. Chemigation systems connected to the public water system must contain a functional, reduced pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, discharge the water from the public water system into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
- All chemigation systems connected to the public water system must also follow restrictions listed in the preceding section titled "Special Precautions for Chemigation".]

# DIRECTIONS FOR USE IN PEANUT RESTRICTIONS AND LIMITATIONS

- DO NOT apply more than 3 fluid ounces of this product (0.094 pound AI) per acre during a single application.
- DO NOT apply more than 3 fluid ounces of this product (0.094 pound AI) per acre per year.
- DO NOT make more than 4 applications per year.
- DO NOT irrigate when peanuts are cracking.
- DO NOT graze treated fields or feed treated hay to livestock.
- Retreatment interval is 14 days.

### **PRECAUTION**

• [DO NOT apply more than 2 fluid ounces (0.063 lb ai) per acre in the states of North Carolina, Oklahoma or Virginia where climatic conditions may result in unacceptable injury to peanuts.

Many weather related factors, including high wind, splashing or heavy rains or cool conditions at or near peanut emergence, may result in peanut injury in fields treated with this product. On occasion this has resulted in a delay in maturity or even a slight decrease in yield.

### WIND MANAGEMENT

In areas where shallow cultivation is used between rows to reduce wind-borne sand damage to peanuts, weed control from this product may be reduced.

#### TIMING TO PEANUTS

This product may be applied to peanuts prior to planting or preemergence (after planting). Preemergence applications of this product must be made within 2 days after planting and prior to peanut emergence. Application after the peanuts have begun to crack, or are emerged, will result in severe crop injury. DO NOT apply when peanuts have begun to crack. Select rate of this product from Table - Broadleaf Weeds Controlled by Residual Activity of This Product, according to anticipated weed spectrum.

### **TIMING TO WEEDS**

### Burndown - Preemergence to Peanuts, Postemergence to Weeds

This product, applied as part of a burndown program, may be used for residual weed control, as well as to assist in postemergence burndown of many annual and perennial weeds where peanuts will be planted directly into a stale seedbed, cover crop or in previous crop residues. Apply this product before planting, during planting or after planting, but before the crop emerges. For control of emerged weeds, tank mix this product with glyphosate. Refer to glyphosate label for directed rate and application pressure. To ensure thorough coverage, use a minimum of 15 gallons of spray solution per acre. Tank mixes of this product applied to assist in the control of emerged weeds must be applied with an adjuvant, including a non-ionic surfactant at 0.25% v/v or a crop oil concentrate or a methylated seed oil at 1 to 2 pints per acre. A spray grade nitrogen source (either ammonium sulfate at 2 to 2.5 pounds per acre or 28 to 32% nitrogen solution at 1 to 2 quarts per acre) may be added to increase herbicidal activity. Preemergence (conventional tillage) applications of this product must be applied prior to weed emergence.

### [PREEMERGENCE APPLICATION IN PEANUT (North Carolina, Oklahoma and Virginia Only)

This product, at 3 fluid ounces (0.094 pound AI) per acre, can be applied within 2 days of planting to control common ragweed, tropic croton and entireleaf, ivyleaf and tall/scarlet morningglories.

Cool temperatures near emergence (2 consecutive nighttime lows in the 50's F) in combination with heavy rainfall may result in severe crop injury. Only use this product, at 3 fluid ounces (0.094 lb ai) per acre in these states when other alternatives are not available for adequate control of the weeds listed above and the user acknowledges the risks associated with this use rate under the adverse environmental conditions listed above.]

### ADDITIONAL RESIDUAL GRASS CONTROL: SEQUENTIAL

This product may be applied sequentially following a preplant incorporated application of trifluralin (states of New Mexico, Oklahoma and Texas only), metolachlor, or pendimethalin or dimethenamid.

### ADDITIONAL RESIDUAL GRASS CONTROL: TANK MIXED

This product can be tank mixed with alachlor, metolachlor or dimethenamid for additional grass and broadleaf weed control. This product can also be tank mixed with pendimethalin or ethalfluralin in states where they are labeled, provided overhead irrigation guidelines on the pendimethalin and/or ethalfluralin labels are followed.

# **DIRECTIONS FOR USE IN POTATO**

[Arizona, California, Colorado, Delaware, Florida, Hawaii, Idaho, Maryland, Minnesota, Montana, Nebraska, Nevada, New Jersey, New Mexico, North Carolina, North Dakota, Oregon, South Carolina, South Dakota, Texas, Utah, Virginia, Washington, Washington DC and Wyoming only.]

[For chemigation applications on potato follow CHEMIGATION - POTATO section below.]

# RESTRICTIONS AND LIMITATIONS

- DO NOT apply more than 1.5 fluid ounces of this product (0.047 pound AI) per acre during a single application.
- DO NOT apply more than 1.5 fluid ounces of this product (0.047 pound AI) per acre per year.
- DO NOT make more than 4 applications per year.
- DO NOT apply to Rill (Furrow) irrigated potatoes.
- Retreatment interval is 14 days.

Many weather related factors, including high wind, splashing or heavy rains or cool conditions at or near potato emergence, may result in potato injury in fields treated with this product. On occasion this has resulted in a delay in maturity. User must assume these risks before using this product.

### **TIMING TO POTATOES**

This product may be applied to potatoes after hilling for the preemergence suppression of the weeds listed in Table - Weeds Suppressed by Residual Activity of This Product at 1.5 Fluid Ounces (0.047 lb ai) per Acre. Tank mix this product with other

labeled herbicides for broad spectrum weed control. A minimum of 2 inches of settled soil must cover the vegetative portion of the potato plant at the time of application of this product. Application to potatoes with less than 2 inches of soil covering the vegetative portion of the potato may result in crop injury. In areas with historically higher amounts of rainfall during the time of preemergence herbicide applications, including the Red River Valley, Minnesota and North Dakota, the requirement for 2 inches of settled soil is critical to avoid crop injury. Mechanical incorporation of this product will result in decreased weed control. In areas with sprinkler irrigation, incorporate this product with 0.5 to 0.75 inches of irrigation, after application and before any sprouts are within 2 inches of the settled soil surface if a rainfall event has not yet occurred.

### **TIMING TO WEEDS**

### Preemergence - Soil Covered Potatoes, Preemergence to Weeds

Apply this product to soil covered potatoes for the preemergence suppression of the weeds listed in Table - Weeds Suppressed by Residual Activity of This Product at 1.5 Fluid Ounces (0.047 lb ai) per Acre. Harrowing, cultivation or corrugating after this product application will reduce weed control.

### **CHEMIGATION - POTATO**

This product may be applied through sprinkler system in potatoes. Follow all label directions for crop regarding rates, timing of application, special instructions and precautions.

Apply this product only through center pivot systems. End guns must be turned off due to uneven application. **DO NOT** apply this product through any other type of irrigation system.

Crop injury, lack of efficacy or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

The system must be properly calibrated (with water only) to ensure that the amount of this product applied or responds to the specified rate

Apply this product in 1/2 to 3/4 inches of water during the first sprinkler set. Allow time for all lines to flush the herbicide through all nozzles before turning off irrigation water. To ensure the lines are flushed and free of remaining herbicide, a dye indicator may be injected into the lines to mark the end of the application period. Once chemigation has begun, the run must be completed to ensure no product is left in the system.

If you have any questions about calibration, contact your State Extension Service Specialist, equipment manufacturers or other experts.

### **Special Precautions for Chemigation**

- 1. **DO NOT** connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
- 2. A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments in the event the need arises.
- The system must be free of leaks and clogged nozzles.
- 4. The pesticide must be supplied continuously for the duration of the aqueous application. An uneven application may cause injury to the crop or poor weed control.
- 5. Agitation must be maintained in the nurse tank.
- 6. The sprinkler chemigation system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow.
- 7. The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of fluid back toward the injection pump.
- 8. The pesticide injection pipeline must contain a functional, normally closed, solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- 9. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in the case where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 10. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 11. Systems must use a metering pump, for example, a positive displacement injection pump (e.g., diaphragm pump), effectively designed and constructed of materials that are compatible with the pesticides and capable of being fitted with a system interlock.
- 12. DO NOT apply when wind speed favors drift beyond the area intended for treatment.

# **Chemigation Systems Connected to Public Water Systems**

- 1. Public water system means a system for the provision to the public of piped water for human consumption, if such a system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
- 2. Chemigation systems connected to the public water system must contain a functional, reduced pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, discharge the water from the public water system into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

3. All Chemigation systems connected to the public water system must also follow restrictions listed in the preceding section titled "Special Precautions for Chemigation".

Table - Weeds Suppressed by Residual Activity of This Product at 1.5 Fluid Ounces (0.047 lb ai) per Acre

COMMON NAME	SCIENTIFIC NAME	ORGANIC MATTER	NUP-ICP HERBICIDE RATE
Lambsquarters, Common	Chenopodium album	Up to 5%	1.5 oz/A (0.047 lb ai)
Mustard, Wild	Brassica kaber		
Nightshades,			
Black	Solarium nigrum		
Eastern Black	Solanum ptycanthum		
Hairy	Solarium sarrachoides		
Pigweeds,			
Palmer Amaranth	Amaranthus palmeri		
Redroot	Amaranthus retroflexus		
Smooth	Amaranthus hybridus		
Spiny Amaranth	Amaranthus spinosus		
Tumble	Amaranthus albus		
Prickly Lettuce (China Lettuce)	Lactuca serriola		
Prickly Sida (Teaweed)	Sida spinosa		
Radish, Wild	Raphanus raphanistrum		

# DIRECTIONS FOR USE IN STRAWBERRY RESTRICTIONS AND LIMITATIONS

- DO NOT apply more than 3 fluid ounces of this product (0.094 pound AI) per acre per application.
- DO NOT apply more than 3 fluid ounces of this product (0.094 pound AI) per acre per year.
- DO NOT make more than 4 applications per year.
- · Retreatment interval is 14 days.

# **PRECAUTIONS**

- This product, at 3 fluid ounces (0.094 lb ai) per acre, can be applied to the soil a minimum of 30 days prior to transplanting strawberries provided the strawberries will be transplanted through a plastic mulch.
- This product at 3 fluid ounces (0.094 lb ai) per acre can be applied to dormant (established or newly planted) strawberries for the preemergence control of the weeds listed in Table **Broadleaf Weeds Controlled by Residual Activity of This Product.**
- This product, at 3 fluid ounces (0.094 lb ai) per acre, can be applied in strawberry row middles with a shielded or hooded sprayer for the preemergence control of the weeds listed in Table **Broadleaf Weeds Controlled by Residual Activity of This Product**.

Application Method	Minimum Time From Application to Harvest (PHI)	Use Rate Per Acre Per Application (oz)	Use Rate Per Acre Per Year (oz)	Special Use Instructions
Pre-transplant	Not applicable	3 (0.094 lb ai)	3 (0.094 lb ai)	Apply a minimum of 30 days prior to transplanting and prior to plastic mulch being laid.  Apply as part of a tank mix to control emerged weeds
Preemergence to dormant	Not applicable	3 (0.094 lb ai)	3 (0.094 lb ai)	Crop oil concentrate, at 1% v/v, or non-ionic surfactant, at 0.25% v/v, may be added to help
strawberries				control emerged broadleaf weeds.
Hooded or shielded	<b>DO NOT</b> apply after fruit set	3 (0.094 lb ai)	3 (0.094 lb ai)	Apply only to row middles - DO NOT apply over strawberries.
sprayer				Apply prior to weed emergence.
application to row middles				Crop spotting may occur if an adjuvant is added.
				Application after fruit set may result in spotting of fruit.

	<b>DO NOT</b> allow spray drift to come in contact with fruit or foliage
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# **DIRECTIONS FOR USE IN SOYBEAN**

- RESTRICTIONS AND LIMITATIONS DO NOT apply more than 3 fluid ounces of this product (0.094 pound AI) per acre during a single application.
- DO NOT apply more than 3 fluid ounces of this product (0.094 pound AI) per acre per year.
- DO NOT make more than 4 applications per year.
- Graze treated fields or feed treated hay to livestock no sooner than 21 days after application.
- [DO NOT tank mix this product with flufenacet, metolachlor or dimethenamid within 14 days of planting soybeans, unless soybeans are planted under no-till or minimum tillage conditions on wheat stubble or no-till field corn stubble.]
- DO NOT irrigate when soybeans are cracking.
- · Retreatment interval is 14 days.

### **TIMING TO SOYBEANS**

This product may be applied to soybeans prior to planting or preemergence (after planting). Preemergence application of this product must be made within 3 days after planting and prior to soybean emergence. Application after the soybeans have begun to crack, or are emerged, will result in severe crop injury. DO NOT apply when soybeans have begun to crack. Select rate of this product from Table - Broadleaf Weeds Controlled by Residual Activity of This Product according to anticipated weed spectrum.

# **TIMING TO WEEDS**

### Burndown - Preemergence to Soybeans, Postemergence to Weeds

This product, applied as part of a burndown program, may be used for residual weed control, as well as to assist in postemergence burndown of many annual and perennial weeds where soybeans will be planted directly into a stale seedbed, cover crop or in previous crop residues. For control of emerged weeds, choose the most appropriate tank mix partner from Table - Tank Mix Partners for Control of Emerged Weeds in Reduced Tillage Soybeans. Apply this product with ground equipment before planting, during planting or within 3 days after planting, but before the crop emerges. To ensure thorough coverage, use a minimum of 15 gallons of spray solution per acre. Refer to tank mix partner's label for directed application pressure. All tank mixes of this product applied to assist in the control of emerged weeds must be applied with crop oil concentrate or methylated seed oil at 1 to 2 pints per acre or a non-ionic surfactant at 0.25% v/v.

### INCREASING SPEED OF GLYPHOSATE BURNDOWN ACTIVITY

This product, at rates as low as 1 fluid ounce (0.031 lb ai) per acre, may be tank mixed with glyphosate to increase the speed of burndown activity compared to glyphosate applied alone. Residual weed control will not be provided at rates lower than 2 fluid ounces (0.063 lb ai) per acre; however, suppression of the weeds in Table - **Weeds Suppressed by Residual Activity of This Product**, may occur at rates of this product as low as 1 fluid ounce (0.031 lb ai) per acre.

# TANK MIXES

This product may be tank mixed with the herbicides listed in Table - Tank Mix Partners for Control of Emerged Weeds in Reduced Tillage Soybeans for increased burndown activity, additional residual broadleaf and/or additional grass control. Refer to tank mix partner's label for adjuvant directions.

Table - Tank Mix Partners for Control of Emerged Weeds in Reduced Tillage Soybeans

TANK MIX PARTNERS	TARGET WEEDS <sup>1</sup>
2,4-D LVE	Marestail
	Giant Ragweed
	Dandelion
paraquat	Annual Grasses
	Henbit
glyphosate	General Burndown
Clethodim	Annual Grasses
imazaquin	Cocklebur
	Common Sunflower
dicamba	Marestail
	Giant Ragweed
	Dandelion
	Clover

<sup>&</sup>lt;sup>1</sup>Refer to tank mix product labels for specific directions for control of emerged weeds present.

### ADDITIONAL RESIDUAL BROADLEAF CONTROL

This product can be tank mixed with metribuzin, imazaquin, pendimethalin cloransulam-methy, linuron, flumetsulam, for additional broadleaf control.

### ADDITIONAL RESIDUAL GRASS CONTROL

This product can be tank mixed with pendimethalin or clomazone for additional grass control. [Tank mixes with flufenacet, metolachlor, dimethenamid may result in severe injury to soybeans when application is followed by prolonged periods of cool wet weather]

### **ROUNDUP READY PROGRAM**

This product may be applied as part of a burndown program or preemergence in conventional tillage programs, at 2 to 3 fluid ounces (0.063-0.094 lb ai) per acre to reduce early season weed competition from waterhemp, velvetleaf, nightshade and morningglories as well as other weeds listed in Tables 2 and 3 in Roundup Ready® programs. A sequential post emergence application of glyphosate will be required to control weeds not controlled by this product.

### **DIRECTIONS FOR USE IN SUGARCANE**

### **RESTRICTIONS AND LIMITATIONS**

- DO NOT apply more than 8 fluid ounces of this product (0.25 pound AI) per acre per application.
- DO NOT apply more than 12 fluid ounces of this product (0.38 pound Al) per acre per single year.
- Retreatment interval is 14 days.
- DO NOT make more than 12 applications per year.
- DO NOT apply within 90 days of harvest.

### **TIMING TO SUGARCANE**

This product may be applied from 2 weeks prior to planting to before the sugarcane emerges, post directed or at layby. Select the proper rate of this product from Table - **Weeds Controlled by Preemergence Application of This Product** according to anticipated weed spectrum and soil organic matter content for preemergence applications. Select rate of this product from Table - **Broadleaf Weeds Controlled by Post-Directed or Layby Application of This Product in Sugarcane** according to emerged weed spectrum and weed heights for post-directed and layby applications.

### **TIMING TO WEEDS**

### Burndown — Preemergence to Sugarcane, Postemergence to Weeds

This product may be used for preemergence control, and to assist in postemergence burndown, of many annual broadleaf weeds in sugarcane. For control of emerged weeds, choose the most appropriate tank mix partner from Table - **Tank Mixes with This Product for Post-Directed or Layby Use in Sugarcane**. Apply this product **before the crop emerges**. To ensure thorough coverage, use a minimum of 15 gallons of spray solution per acre. All tank mixes of this product applied to assist in the control of emerged weeds must be applied with crop oil concentrate or methylated seed oil at 1 quart per acre or a non-ionic surfactant at 0.25% v/v. Some tank mix products, including Roundup Original Max (glyphosate), may be formulated with a suitable adjuvant and **DO NOT** require additional adjuvant.

### Preemergence — Preemergence to Sugarcane, Preemergence to Weeds

This product may be used for preemergence control of many annual broadleaf and grassy weeds in sugarcane. Select rate based on anticipated weed spectrum and soil organic matter content from Table - **Weeds Controlled by Preemergence Application of This Product**. Apply this product <u>before the crop emerges</u>.

### Post-Directed — Postemergence to Sugarcane, Postemergence to Weeds

Only make post-directed applications to upright sugarcane varieties after the sugarcane has exceeded 24 inches in height and has begun to joint. **DO NOT** make post-directed applications to "PINEAPPLE" varieties. Post-directed applications to "PINEAPPLE" varieties or to upright varieties that have not exceeded 24 inches in height and have not begun to joint, may result in unacceptable crop injury. To ensure thorough coverage, use a minimum of 15 gallons of spray solution per acre. Post-directed applications of this product must include a crop oil concentrate or methylated seed oil at 1 quart per acre or a non-ionic surfactant at 0.25% v/v. Select the proper rate of this product based on weed spectrum and weed height from Table - **Broadleaf Weeds Controlled by Post-Directed or Layby Application of This Product**.

# Layby — Postemergence to Sugarcane, Postemergence to Weeds

Layby applications can be made to upright and "PINEAPPLE" varieties after the sugarcane has exceeded 30 inches in height and the spray solution will not contact foliage above 6 inches from the base of the sugarcane. To ensure thorough coverage, use a minimum of 15 gallons of spray solution per acre. Layby applications of this product must be applied with crop oil concentrate or methylated seed oil at 1 quart per acre or a non-ionic surfactant at 0.25% v/v. Select the proper rate of this product based on weed spectrum and weed height from Table - **Broadleaf Weeds Controlled by Post-Directed or Layby Application of This Product**.

Table - Broadleaf Weeds Controlled by Post-Directed or Layby Application of This Product in Sugarcane

BROADLEAF WEED SPECIES		WEED HEIGH	WEED HEIGHT (inches)	
COMMON NAME	SCIENTIFIC NAME	3 oz/A (0.094 lb ai)	4 oz/A (0.125 lb ai)	
Bindweed, Field <sup>1</sup>	Convolvulus arvensis	4	8	
Carpetweed	Mollugo verticillata	4	4	
Cocklebur, Common	Xanthium strumarium	4	4	
Florida Beggarweed	Desmodium tortuosum	2	2	
Hemp Sesbania	Sesbania exaltata	6	8	
Jimsonweed	Datura stramonium	4	4	
Lambsquarters, Common	Chenopodium album	4	4	

Morningglories,			
Entireleaf	Ipomoea hederacea var. integriuscula	-	4
lvyleaf	Ipomoea hederacea	4	4
Pitted	Ipomoea lacunosa	4	6
Red	Ipomoea coccinea	-	4
Tall	Ipomoea purpurea	2	4
Mustard, Wild	Brassica kaber	6	6
Pigweeds,			
Palmer Amaranth	Amaranthus palmeri	4	6
Redroot	Amaranthus retroflexus	4	6
Smooth	Amaranthus hybridus	4	6
Plantain, Broadleaf	Plantago major	6	6
Prickly Sida	Sida spinosa	4	6
Purslanes,			
Common	Portulaca oleracea	2	4
Rock	Calandrinia spp.	-	2
Ragweeds,			
Common	Ambrosia artemisiifolia	2	2
Giant	Ambrosia trifida	4	4
Rice Flatsedge	Cyperus iria	2	4
Sicklepod	Senna obtusifolia	4	4
Smartweeds,			
Ladysthumb	Polygonum persicaria	4	4
Pale	Polygonum lapathifolium	4	4
Pennsylvania	Polygonum pensylvanicum	4	4
Spotted Spurge	Euphorbia maculata	4	4
Velvetleaf	Abutilon theophrasti	4	6
Venice Mallow	Hibiscus trionum	2	2
Waterhemps,	<u>.</u>		•
Common	Amaranthus rudis	2	2
Tall	Amaranthus tuberculatus	2	2

<sup>&</sup>lt;sup>1</sup>Tank mixes of this product will only control the above ground portion of field bindweed. Repeated applications will be needed to control regrowth.

# **TANK MIXES**

This product may be tank mixed with the herbicides listed in Table **Tank Mixes with This Product for Post-Directed or Layby Use in Sugarcane** for additional weed control in burndown, preemergence, post-directed and layby applications. Refer to tank mix partner's label for adjuvant directions.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Table - Tank Mixes with This Product for Post-Directed or Layby Use in Sugarcane

TANK MIX PARTNER <sup>1</sup>	TARGET WEEDS	BURNDOWN	POST- DIRECTED <sup>2</sup>	LAYBY
2,4-D amine	Annual and Perennial Broadleaf Weeds	Х		
atrazine	Pigweeds Cocklebur	Х	Х	Х
asulam <sup>3</sup>	Annual Grasses		Х	Х
ametryn <sup>4</sup>	Annual Grasses		Х	Х
glyphosate <sup>5</sup>	Annual and Perennial Weeds	Х		Х
metribuzin <sup>6</sup>	Broadleaf Panicum Goosegrass		Х	Х
halosulfuron-methyl	Purple Nutsedge Yellow Nutsedge	Х	Х	Х
dicamba	Annual and Perennial Broadleaf Weeds	Х		

### ADDITIONAL PREEMERGENCE BROADLEAF CONTROL

This product can be tank mixed with atrazine or diuron for additional preemergence broadleaf control.

### ADDITIONAL PREEMERGENCE GRASS CONTROL

This product can be tank mixed with PROWL (or other pendimethalin products) for additional preemergence grass control provided sugarcane has not emerged.

Table - Weeds Controlled by Preemergence Application of This Product

COMMON NAME	SCIENTIFIC NAME	ORGANIC MATTER	SOIL TYPE	NUP-ICP HERBICIDE RATE
Bristly Starbur	Acanthospermum hispidum	Up to 10% <sup>1</sup>	All Soil	
Carpetweed	Mollugo verticillata		Types <sup>2</sup>	Sugarcane
Chickweeds,				6 to 8 oz/A (0.188
Common	Stellaria media			0.25 lb ai)
Mouseear	Cerastium vulgatum			
Coffee Senna	Cassia occidentalis			
Dandelion	Taraxacum officinale			To Maintain
Eclipta	Eclipta prostrate			Bare Ground
Eveningprimrose, Cutleaf	Oenothera laciniata			on Non-Crop Areas of
False Chamomile	Tripleurospermum maritima			Farms
Filaree,	1			6 to 12 oz/A (0.188
Redstem	Erodium cicutarium			0.38 lb ai)
Whitestem	Erodium moschatum			
Fiddleneck. Coast <sup>[3]</sup>	Amsinckia menziesii			
Fleabane, Hairy	Conyza bonariensis			
Field Pennycress <sup>[3]</sup>	Thlaspi arvense			
Florida Beggarweed	Desmodium tortuosum			
Florida Pusley	Richardia scabra			
Golden Crownbeard	Verbesina encelioides			
Groundsel, Common	Senecio vulgaris			
Hairy Indigo	Indigofera hirsuta			
Hemp Sesbania	Sesbania exaltata			
Henbit	Lamium amplexicaule			
Jimsonweed	Datura stramonium			
Kochia	Kochia scoparia			
Lambsquarters, Common	Chenopodium album			
Mallow,				
Common (Cheeseweed)	Malva neglecta			
Little	Malva parviflora			
Horseweed/Marestail	Conyza canadensis			
Mayweed/False Chamomile	Matricaria maritima			
Morningglories,				
Entireleaf	Ipomoea hederacea var.integriuscula			
lvyleaf	Ipomoea hederacea			
Red/Scarlet	Ipomoea coccinea		ĺ	

<sup>&</sup>lt;sup>1</sup> Refer to tank mix product labels for specific directions for control of emerged weeds present not listed in Table - **Broadleaf Weeds Controlled by Post-Directed or Layby Application of This Product**.

<sup>&</sup>lt;sup>2</sup> Only make post-directed applications to upright sugarcane varieties after the sugarcane has exceeded 24 inches in height. **DO NOT** make post-directed applications to "PINEAPPLE" varieties. Post-directed applications to "PINEAPPLE" varieties or to upright varieties that have not exceeded 24 inches in height may result in unacceptable crop injury.

<sup>&</sup>lt;sup>3</sup> Apply to sugarcane at least 24 inches tall.

<sup>&</sup>lt;sup>4</sup> Apply before weeds are greater than 6 inches tall.

<sup>&</sup>lt;sup>5</sup> Glyphosate applications must be made with a hooded sprayer. Sugarcane must be at least 3 ft. tall. Contact with the sugarcane foliage by either the spray mixture or the treated weed foliage will result in sugarcane injury.

<sup>&</sup>lt;sup>6</sup> Refer to metribuzin label for restrictions based on soil type.

Smallflower	Jacquemontia tamnifolia
Tall	Ipomoea purpurea
Mustards,	протпоса раграгоа
London Rocket	Sisymbrium irio
Tansey	Desurainia pinnata
Tumble	Sisymbrium altissimum
Wild	Brassica kaber
Nettle, Burning	Urtica urens
Nightshades,	O'ABBU GITOITE
Black	Solanum nigrum
Eastern Black	Solanum ptycanthum
Hairy	Solanum sarrachoides
Pigweeds,	
Palmer Amaranth	Amaranthus palmed
Redroot	Amaranthus retroflexus
Smooth	Amaranthus hybridus
Spiny Amaranth	Amaranthus spinosus
Tumble	Amaranthus albus
Prickly Lettuce (China Lettuce)	Lactuca serriola
Prickly Sida (Teaweed)	Sida spinosa
Puncturevine	Tribulus terrestris
Purslane,	
Common	Portulaca oleracea
Horse	Trianthema portulacastrum
Radish, Wild	Raphanus raphanistrum
Ragweed, Common	Ambrosia artemisiifolia
Redmaids	Calandrinia ciliata var menziessi.
Redweed	Melochia corchorifolia
Shepherd's-purse	Capsella bursa-pastoris
Smellmelon <sup>[3]</sup>	Cucumis melo
Sowthistle, Annual <sup>[3]</sup>	Sonchus oleraceus
Spotted Spurge	Euphorbia maculata
Spurred Anoda	Anoda cristata
Thistle, Russian	Salsola iberica
Tropic Croton	Croton glandulosus
Venice Mallow	Hibiscus trionum
Waterhemps,	
Common	Amaranthus rudis
Tall	Amaranthus tuberculatus
Wild Poinsettia	Euphorbia heterophylla
White Cockle	Silene latifolia
Wormwood, Biennial	Artemisia biennis
Yellow Rocket	Barbarea vulgaris
GRASS WEED SPECIES	
Barnyardgrass	Echinochloa crus-galli
Bluegrass, Annual	Poa annua
Crabgrass,	
Large	Digitaria sanquinalis
Smooth	
	Digitaria ischaemum
Foxtails,	10
Bristly	Setaria verticillata
Giant	Setaria faberi
Green	Setaria viridis
Yellow	Setaria glauca
Goosegrass	Eleusine indica
Guineagrass	Panicum maximum
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Johnsongrass, Seedling	Sorghum halepense	
Lovegrass, California	Eragrostis diffusa	
Panicum,		
Fall	Panicum dichotomiflorum	
Texas	Panicum texaum	
Ryegrass, Italian	Lolium multiflorum	
Signalgrass, Broadleaf	Brachiaria platyphylla	

<sup>&</sup>lt;sup>1</sup>This product can be used on soils with greater than 10% organic matter; however, length of residual control may be shorter than on soils with lower organic matter content.

# DIRECTIONS FOR USE IN SUNFLOWER AND SAFFLOWER HARVEST AID

### RESTRICTIONS AND LIMITATIONS

- DO NOT apply more than 3 fluid ounces of this product (0.094 pound AI) per acre during a single application.
- DO NOT apply more than 3 fluid ounces of this product (0.094 pound AI) per acre per year.
- DO NOT make more than 4 applications per year.
- DO NOT harvest within 5 days of application.
- · Retreatment interval is 14 days.

Desiccation from this product requires the addition of an agronomically approved adjuvant to the spray mixture. Use a methylated seed oil which contains at least 15% emulsifiers and 80% oil at 1 quart per acre. A spray grade nitrogen source (either ammonium sulfate at 2 to 2.5 pounds per acre or a 28 to 32% nitrogen solution at 1 to 2 quarts per acre) may be added to the spray mixture along with methylated seed oil to enhance desiccation. The addition of a nitrogen source does not replace the need for methylated seed oil. Tank mixing this product with glyphosate or paraquat will increase control of emerged weeds and aid in harvest for sunflowers. Tank mixing this product with glyphosate will increase control of emerged weeds and aid in harvest for safflower.

### TIMING TO SUNFLOWER AND SAFFLOWER

Apply this product, at 1.5 to 2 fluid ounces (0.047-0.063 lb ai) per acre, when crop is mature (when seed is 35% moisture or less). For many varieties, this is when the backs of the heads are turning yellow and the bracts are turning brown. Sunflower and safflower can be harvested 5 days after application. To ensure thorough coverage, use 15 to 30 gallons of spray solution per acre and select nozzle type using manufacturer's gallonage and pressure specifications for postemergence application.

### **DIRECTIONS FOR USE IN SWEET POTATO**

# **RESTRICTIONS AND LIMITATIONS**

- DO NOT apply more than 3 fluid ounces of this product (0.094 pound AI) per acre during a single application.
- DO NOT apply more than 3 fluid ounces of this product (0.094 pound AI) per acre per year.
- **DO NOT** make more than 4 applications per year.
- DO NOT apply postemergence to sweet potatoes.
- **DO NOT** use greenhouse grown transplants.
- **DO NOT** use transplants harvested more than 2 days prior to transplanting.
- DO NOT use on any sweet potato variety other than "Beauregard", unless user has tested this product on other variety and has found crop tolerance to be acceptable.
- DO NOT apply as a part of any tank mix, except with labeled rates of Command, if tank mix is applied prior to transplanting.
- Retreatment interval is 14 days.

# **TIMING TO SWEET POTATOES**

This product must be applied prior to transplanting sweet potatoes.

### **TIMING TO WEEDS**

### **Preemergence to Weeds**

Apply this product to soil prior to transplanting sweet potato slips for the preemergence control of the weeds listed in Table - Broadleaf Weeds Controlled by Residual Activity of This Product.

### **DIRECTIONS FOR USE IN WHEAT**

For Use in the States of Delaware, Idaho, Kentucky, Maryland, Minnesota, Montana, North Carolina, North Dakota, New Jersey, Oregon, Pennsylvania, South Carolina, South Dakota, Tennessee, Virginia, Washington and Wisconsin Only

# **RESTRICTIONS AND LIMITATIONS**

• DO NOT apply more than 2 fluid ounces of this product (0.063 pound Al) per acre during a single application.

<sup>&</sup>lt;sup>2</sup>Use a maximum rate of 6 fluid ounces (0.188 lb ai) per acre per application of this product on any soil that has a sand plus gravel content over 80% if bushes, trees or vines are under 3 years of age.

<sup>[3</sup> Not for use in California.]

- DO NOT apply more than 2 fluid ounces of this product (0.063 pound AI) per acre per year.
- DO NOT make more than 4 applications per year.
- · Retreatment interval is 14 days.

# PRE-PLANT APPLICATIONS. PRE-EMERGENCE WEED CONTROL

### RESTRICTIONS AND LIMITATIONS

- · For pre-plant weed control, use only on no-till or minimum tillage fields where the previous year's crop residue has not been incorporated into the soil.
- Plant wheat no sooner than 7 days after application of this product in the states of DE, KY, MD, NC, NJ, PA, SC, TN or
- Plant wheat no sooner than 14 days after application of this product in the states of ID, MN, MT, ND, OR, SD, WA or WI
- DO NOT use on Durum wheat.
- DO NOT irrigate between emergence and spike.
- · Wheat must be planted a minimum of 1 inch deep.
- DO NOT graze until wheat has reached 5 inches in height.

### **Burndown Use Directions**

This product, applied as part of a burndown program at 2 fluid ounces (0.063 lb ai) per acre, may be used for residual weed control, as well as to assist in postemergence burndown of many weeds where wheat will be planted directly into the residue of the previous crop. See Directions for Use in Fall Burndown Programs in Fields to be Planted to Barley, Field Pea, Flax, Lentil, Safflower, Sunflower and Spring Wheat for rates and timing of applications. For control of emerged weeds, this product must be applied with an appropriate burndown tank mix partner. To ensure thorough coverage, use a minimum of 15 gallons of spray solution per acre. Refer to tank mix partner's label for specified application pressure and adjuvant systems.

### **HARVEST AID**

### **RESTRICTIONS AND LIMITATIONS**

DO NOT harvest within 10 days of application.

### **Use Directions**

This product, applied at 2 fluid ounces (0.063 lb ai) per acre for desiccation requires the addition of an agronomically approved adjuvant to the spray mixture. Use a methylated seed oil which contains at least 15% emulsifiers and 80% oil at 1 quarts per acre. A spray grade nitrogen source (either ammonium sulfate at 2 to 2.5 pounds per acre or a 28 to 32% nitrogen solution at 1 to 2 guarts per acre) may be added to the spray mixture along with methylated seed oil to enhance desiccation. The addition of a nitrogen source does not replace the need for methylated seed oil. Tank mixing this product with glyphosate will increase control of emerged weeds and aid in harvest.

To ensure thorough coverage, use a minimum of 10 gallons spray solution per acre by ground application and a minimum of 5 gallons per acre by aerial application. Nozzle selection must meet manufacturer's gallonage and pressure specifications for postemergence application.

### **TIMING TO WHEAT**

Apply this product, at 1.5 to 2 fluid ounces (0.047-0.063 lb ai) per acre, after wheat reaches the hard dough stage and grain has no more than 30% moisture. Wheat can be harvested 10 days after application. Nufarm directs tank mixing with glyphosate.

# DIRECTIONS FOR USE IN ALMONDS, BUSHBERRY, CANEBERRY, CITRUS FRUIT, GRAPE, NUT TREES (INCLUDING PISTACHIOS), OLIVE, POME FRUIT, POMEGRANATE, STONE FRUIT AND NON-BEARING FRUIT

# **Bushberry Crop Subgroup 13-07B Includes:**

Aronia Berry; Blueberry, Highbush; Blueberry, Lowbush; Buffalo Currant; Chilean Guava; Cranberry, Highbush; Currant, Black; Currant, Red; Elderberry, European Barberry, Gooseberry, Honeysuckle, edible; Huckleberry; Jostaberry; Juneberry [(Saskatoon Berry]); Lingonberry; Native Currant; Salal; Sea Buckthorn; and cultivars, varieties and/or hybrids of these.

# Caneberry Crop Subgroup 13-07A Includes:

Blackberry, Loganberry, Black Raspberry, Red Raspberry, Wild Raspberry and cultivars, varieties and/or hybrids of these.

# Citrus Fruit Crop Group 10-10 Includes:

Australian Desert Lime; Australian Finger-lime; Australian Round Lime; Brown River Finger Lime; Calamondin; Citron; Citrus hybrids; Grapefruit; Japanese Summer Grapefruit; Kumquat; Lemon; Lime; Mediterranean Mandarin; Mount White Lime; New Guinea Wild Lime; Orange, Sour; Orange, Sweet; Pummelo; Russell River Lime; Satsuma Mandarin; Sweet Lime; Tachibana Orange; Tahiti Lime; Tangelo; Tangerine (mandarin); Tangor; Trifoliate Orange; Uniq Fruit; and cultivars, varieties and/or hybrids of these.

### Tree Nut Crop Group 14-12 Includes:

[African Nut-tree;] Almond, Beechnut; Brazil Nut; [Brazilian Pine;] Bunya;] [Bur Oak;] Butternut; [Cajou Nut;] [Candlenut;] Cashew; Chestnut; Chinquapin; Coconut; [Coquito Nut;] [Dika Nut;] Ginkgo; [Guiana Chestnut;] Hazelnut (Filbert); Heartnut; Hickory Nut; [Japanese Horse-chestnut;] Macadamia Nut; [Mongongo Nut;] [Monkey-pot;] [Monkey Puzzle Nut;] [Okari Nut;] [Pachira Nut;] [Peach Palm Nut;] Pecan; [Pequi;] Pili Nut; Pine Nut; Pistachio; [Sapucaia Nut;] Tropical Almond; Walnut, Black; Walnut, English; [Yellowhorn,] [and] [cultivars, [varieties] [and/or] [hybrids] [of these].

Pome Fruit Crop Group 11-10 Includes:

Apple; [Azarole;] Crabapple; Loquat; Mayhaw; [Medlar;] Pear; Pear, Asian; Quince; [Quince, Chinese;] [Quince, Japanese;] [Tejocote;] [and] [cultivars, [varieties] [and/or] [hybrids] [of these].

Stone Fruit Crop Group 12-12 Includes:
Apricot; [Apricot, Japanese;] [Capulin;] [Cherry, Black;] [Cherry, Nanking;] Cherry, Sweet; Cherry, Tart; [Jujube, Chinese;] Nectarine;
Peach; Plum; [Plum, American;] [Plum, Beach;] [Plum, Canada;] [Plum, Cherry;] Plum, Chickasaw; Plum, Damson; Plum, Japanese;
[Plum, Klamath;] [Plum,] Prune; Plumcot; [Sloe] [and] [cultivars, [varieties] [and/or] [hybrids] [of these].

#### **RESTRICTIONS AND LIMITATIONS**

- DO NOT mow treated areas between bud break and final harvest. Dust created by mowing may drift onto desirable vegetation resulting in injury.
- DO NOT make more than 12 applications per year.
- DO NOT apply to farm alleys or roads where traffic may result in treated dust settling onto crops or other desirable vegetation.
- DO NOT apply within 300 yards of non-dormant pome fruit and stone fruit.
- DO NOT apply to powdery soils or soils that are susceptible to wind displacement unless irrigation can be applied immediately after application.
- DO NOT apply more than 24 fluid ounces of this product (0.75 pound AI) per acre during a single year, except:

Bushberries, for Bushberries **DO NOT** apply more than 12 fluid ounces of this product (0.38 pound AI) per acre during a single year:

Caneberries, for Caneberries **DO NOT** apply more than 6 fluid ounces of this product (0.188 pound AI) per acre during a single year.

- **DO NOT** apply more than 12 fluid ounces of this product (0.38 pound AI) per acre during a single application, except Caneberries, for Caneberries **DO NOT** apply more than 6 fluid ounces of this product (0.188 pound AI) per acre during a single application.
- Retreatment interval is 30 days, except nut trees, where RTI is 60 days.
- DO NOT apply to nut trees established less than one year, unless protected from spray contact by non-porous wraps, grow tubes, or waxed containers.
- Preharvest Interval (PHI)
  - Citrus Fruit: 3 days
    Bushberries: 7 days
    Caneberries: 7 days
    Grape: 60 days
    Nut Trees: 60 days
    Olive: 60 days
  - Olive: 60 daysPome Fruit: 60 daysPomegranate: 60 daysStone Fruit: 60 days

### **PRECAUTIONS**

- Use a maximum rate of this product of 6 fluid ounces (0.188 lb ai) per acre per application on any soil that has a sand plus gravel content over 80% if bushes, trees or vines are less than 3 years of age. (Two applications of 6 fluid ounces (0.188 lb ai) per acre in a single year period can still be made as long as there have been 60 days between applications).
- Raise mower height during all mowing to reduce dust. Dust created by mowing can drift onto desirable vegetation resulting in injury.
- Follow the most restrictive label limitations and precautions of the tank mix product(s) being used.
- Avoid direct or indirect spray contact to foliage and green bark (non-barked trunk and non-barked vines with the exception of undesirable suckers).
- Irrigate after application with minimum of 1/4 inch of water to activate the herbicide and to reduce wind displacement of soil.

For bushberries, caneberries, citrus fruit, grape, nut trees (including pistachio), olive, pomegranate and non-bearing fruit trees, apply this product as a uniform broadcast application to the orchard or vineyard floor or as a uniform band directed at the base of the bush, trunk or vine. For pome fruit and stone fruit, this product can only be applied as a uniform band directed at the base of the trunk prior to "pink bud" in apple and "bud break" in stone fruit and pear. The preferred application timing for this product is in the fall to maximize the potential for rainfall to activate and set the herbicide. **DO NOT** apply over the top of crop or allow spray to come in contact with crop as a result of application or drift.

# **Preemergence Application**

Apply 6 to 12 fluid ounces (0.188 to 0.38 pound Al per acre) [(maximum 6 oz/A (0.188 lb ai) for caneberries)] of this product per broadcast acre as a preemergence application. Make preemergence (to weed emergence) applications of this product to a weed-free soil surface. Preemergence applications of this product must be completed prior to weed emergence. Moisture is necessary to activate this product on soil for residual weed control. Dry weather following application of this product may reduce effectiveness. However, when adequate moisture is received after dry conditions, this product will control susceptible germinating weeds.

### **Postemergence Application**

Apply 6 to 12 fluid ounces (0.188 to 0.38 pound Al per acre) [(maximum 6 oz/A (0.188 lb ai) for caneberries)] of this product per broadcast acre plus an adjuvant (0.25% v/v non-ionic surfactant or 1 quart per acre crop oil concentrate). The addition of an adjuvant enhances activity of this product on emerged weeds. Thorough spray coverage is necessary to maximize the postemergence activity of this product. This product will not control emerged weeds without the addition of a labeled burndown product.

Refer to Table - Weeds Controlled by Preemergence Application of This Product for weeds controlled by the residual activity of this product. Tank mix this product with a labeled burndown herbicide for control of the emerged weeds listed in Table - Weeds Controlled by Postemergence Activity of Tank Mixes of This Product. Refer to tank mix partner's label for additional weed species and increased weed heights claimed. Refer to tank mix partner's label for additional restrictions, including minimum carrier volume and crops in which tank mix partner may be used. Burndown tank mix partners include glyphosate, paraquat, 2,4-D and glufosinate. Tank mixes with glyphosate or 2,4-D containing products are not advised during the period after bloom through final harvest to ensure crop safety from drift.

Residual weed control will be reduced if vegetation prevents this product from reaching the soil surface. If vegetation is heavy, it is specified to use a burndown herbicide with this product and make a sequential application of this product prior to the emergence of new weeds.

### **Carrier Volume and Spray Pressure**

To ensure thorough coverage in burndown applications, use a minimum of 15 gallons of spray solution per acre. Use higher gallonage if dense vegetation or heavy crop residue is present.

Nozzle selection must meet manufacturer's gallonage and pressure specifications.

### Banded Application

Rates listed in Table - Weeds Controlled by Postemergence Activity of Tank Mixes of This Product, refer to a broadcast application covering the entire acre. When making a banded application, the rate must be reduced according to the following formula:

Amount Needed per Acre for	=	Band Width in Inches	Х	Rate per Broadcast Acre
Banded Application	•	Row Width in Inches		

### **USE RESTRICTIONS FOR BUSHBERRIES**

- DO NOT use in the states of Idaho, Oregon or Washington except west of the Cascade Mountains in the following counties:
- Oregon: Benton, Clackamas, Clatsop, Columbia, Coos, Curry, Douglas, Jackson, Josephine, Lane, Lincoln, Linn, Marion, Multnomah, Polk, Tillamook, Umatilla, Yamhill and Washington
- Washington: Benton, Clallam, Clark, Cowlitz, Franklin, Grant, Grays Harbor, King, Jefferson, Kitsap, Lewis, Pacific, Pierce, Skagit, Snohomish, Thurston, Wahkiakum, Walla Walla and Whatcom
- DO NOT apply to bushberries established less than 2 years unless they are protected from spray contact by nonporous wrap, grow tubes or waxed containers.

### **USE PRECAUTIONS FOR GRAPES**

- **DO NOT** apply to grapes established less than 2 years unless they are trellised at least 3 feet from the soil surface or are protected from spray contact by non-porous wrap, grow tubes or waxed containers.
- DO NOT apply to grapes that are not trellised or staked unless they are free standing.
- Avoid direct or indirect spray contact to foliage and green bark (non-barked vines, with the exception of undesirable suckers).
- Plant new plantings of "own-rooted varieties", including Concord, so that all roots are a minimum 8 inches below the soil surface
  to be treated. In some situations, this may require hilling soil around newly planted vines so that the settled depth of the hill will be
  4 to 5 inches above the vineyard floor.

### Juice, Raisin and Wine Grapes

• **DO NOT** apply during the period after bud break through final harvest, unless using shielded application equipment and applicator can ensure spray drift will not come in contact with crop fruit or foliage. **DO NOT** make shielded applications during this time period with glyphosate or products containing glyphosate.

# **Table Grapes**

- This product may be applied during the period following final harvest up to bud break.
- DO NOT apply after bud break.

# USE PRECAUTIONS FOR ALMONDS, CITRUS FRUIT, NUT TREES (INCLUDING PISTACHIOS), OLIVE, POME FRUIT, POMEGRANATE, AND STONE FRUIT

- •California only: For almonds and stone fruit in the counties of Merced, San Joaquin and Stanislaus, see USE PRECAUTIONS FOR ALMOND AND STONE FRUIT IN DEFINED AREAS OF MERCED, SAN JOAQUIN AND STANISLAUS COUNTIES OF CALIFORNIA use instructions
- For pome fruit and stone fruit, this product can only be applied as a uniform band directed at the base of the trunk prior to silver tip in apples and bud break in stone fruit.
- •DO NOT apply to pears in the states of Oregon or Washington.
- •For pome fruit and stone fruit **DO NOT** apply to row middles (area between berms)
- •For nut trees (including Almonds and Pistachios), olive and pomegranate apply after bud break through final harvest using shielded application equipment if the applicator can ensure the spray drift will not come into contact with non-target vegetation, crop fruit and/or foliage. Shielded application equipment is not required if the following application parameters are followed:
  - Application pressure (at boom) < 30 PSI.
  - Application speed < 5 MPH.
  - Applicator can ensure the spray drift will not come into contact with non-target vegetation, crop fruit and/or foliage.
- •DO NOT apply to trees established less than one year, unless protected from spray contact by non-porous wraps, grow tubes, paint or waxed containers.
- •DO NOT use in the states of Oregon or Washington except in the following counties unless the additional restrictions listed below are followed:

Oregon: Benton, Clackamas, Clatsop, Columbia, Coos, Curry, Douglas, Jackson, Josephine, Lane, Lincoln, Linn, Marion, Morrow, Multnomah, Polk, Tillamook, Umatilla, Yamhill and Washington

**Washington:** Clallam, Cowlitz, Grays Harbor, King, Jefferson, Kitsap, Lewis, Pacific, Pierce, Skagit, Snohomish, Thurston, Wahkiakum and Whatcom

- For apples east of the Cascade Mountains in Washington (counties not listed above), follow the restrictions above plus:
  - Apply between final harvest and January 1.
  - Apply only to apple blocks with an established (2 years or older) permanent cover crop that covers a minimum of 60% of the surface area in the block.
  - o Application must be incorporated with a minimum of one half inch of water within 48 hours after application.

- o DO NOT apply to powdery soils or soils susceptible to wind displacement.
- Apply only to orchard berms.
- o **DO NOT** mow the treated berm areas of the orchard.

### **USE RESTRICTIONS FOR NON-BEARING FRUIT**

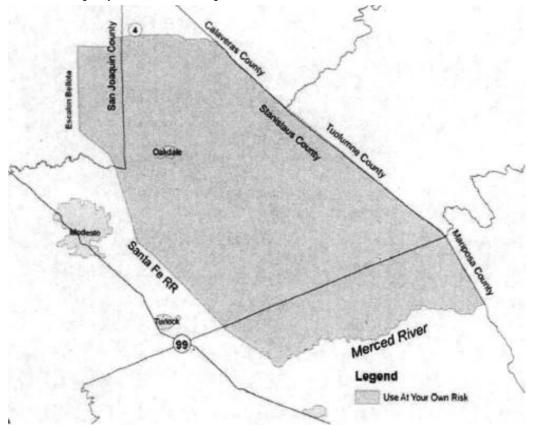
Non-Bearing Avocado and Fig

- DO NOT apply more than 12 fluid ounces of this product (0.38 pound Al) per acre during a single application.
- DO NOT apply more than 24 fluid ounces of this product (0.75 pound AI) per acre during a single year.
- DO NOT make more than 12 applications per year.
- DO NOT harvest fruit from treated trees within one year of application.
- DO NOT apply to trees established less than one year, unless protected from spray contact by non-porous wraps, grow tubes or waxed containers.
- **DO NOT** apply during the period after flowering through leaf drop, unless using shielded application equipment and the applicator can ensure spray drift will not come in contact with the crop foliage.
- · Retreatment interval is 14 days.

# USE PRECAUTIONS FOR ALMOND AND STONE FRUIT IN DEFINED AREAS OF MERCED, SAN JOAQUIN AND STANISLAUS COUNTIES OF CALIFORNIA

The use of this product in soils common in parts of Merced, San Joaquin and Stanislaus counties in California is known to have resulted in injury to almonds under drought stress conditions. These soils are characterized by having been cut or filled, high sand content, low clay content and shallow profiles. Growers in the Defined Area must be aware and assume the risk of using this product on almond or stone fruit crops. The Defined Area can be seen on the Map or by the description that follows:

- Intersection of Highway 4 and Escalon Bellota Road at Farmington in San Joaquin County;
- Directly South on Escalon-Bellota to the Santa Fe Avenue and railroad tracks at Escalon
- Southeast on Santa Fe Avenue down to the Merced River;
- East following the Merced River to the Merced/Mariposa County line;
- Northwest following the Merced County line through the intersection of Merced and Stanislaus County line following the Stanislaus/Tuolumne County and Calaveras County line to Highway 4;
- West on Highway 4 back to the Farmington intersection of Escalon Bellota Road.



# ADDITIONAL RESIDUAL WEED CONTROL

This product maybe tank mixed with oryzalin, simazine or diuron for additional residual weed control. Always read and follow label use directions for all products being used.

Table - Weeds Controlled by Postemergence Activity of Tank Mixes of This Product

COMMON NAME	SCIENTIFIC NAME	WEED HEIGHT/LENGTH (inches)	NUP-ICP HERBICIDE RATE
Bindweed, Field'	Convolvulus arvensis	8	6 to 12 oz/A (0.188-0.3
Carpetweed	Mollugo verticillata	4	lb ai)
Chickweeds,			
Common	Stellaria media	4	
Mouseear	Cerastium vulgatum	4	
Cocklebur, Common	Xanthium strumarium	4	- -
Eveningprimrose, Cutleaf <sup>2</sup>	Oenothera laciniata	12	=
Filaree,			
Broadleaf	Erodium botrys	4	
Redstem	Erodium cicutarium	4	- -
Florida Beggarweed	Desmodium tortuosum	2	=
Hemp Sesbania	Sesbania exaltata	8	
Jimsonweed	Datura stramonium	4	1
Lambsquarters, Common	Chenopodium album	4	1
Morningglories,	enenepealam albam	•	1
Entireleaf	Ipomoea hederacea var. integriuscula	4	
lvyleaf	Ipomoea hederacea	4	
Pitted	Ipomoea lacunosa	6	
Red/Scarlet	Ipomoea ractinosa Ipomoea coccinea	4	
Tall	Ipomoea purpurea	4	
Mustard, Wild	Brassica kaber	6	
Pigweeds,	Brassica kaper	0	-
Palmer Amaranth	Amaranthus nalmeri	6	1
Redroot	Amaranthus palmeri Amaranthus retroflexus	6	1
		6	1
	Smooth Amaranthus hybridus		-
Plantain, Broadleaf	Plantago major	6	-
Prickly Sida (Teaweed)	Sida spinosa	0	-
Purslanes,	D-stylelaw		-
Common	Portulaca oleracea	4	_
Rock	Calandrinia spp.	2	1
Ragweeds,			1
Common	Ambrosia artemisiifolia	2	4
Giant	Ambrosia trifida	4	
Rice Flatsedge	Cyperus iria	4	
Sicklepod	Senna obtusifolia	4	
Smartweeds,			
Ladysthumb	Polygonum persicaria	4	
Pale	Polygonum lapathifolium	4	
Pennsylvania Polygonum pensylvanicum		4	
Spotted Spurge	Euphorbia maculata	4	
Velvetleaf	Abutilon theophrasti	4	
Venice Mallow	Hibiscus trionum	4	
Waterhemps,			
Common	Amaranthus rudis	2	
Tall	Amaranthus tuberculatus	2	1

<sup>&</sup>lt;sup>1</sup> This product will only provide control of the above ground portion of bindweed. Repeated applications will be needed to control regrowth.

<sup>&</sup>lt;sup>2</sup> For acceptable control, cutleaf evening primrose must be 12 inches or less and in the rosette stage. Add crop oil concentrate, at 1 pint per care, or non-ionic surfactant at 0.25% v/v, to glyphosate tank mixes for cutleaf evening primrose control, including glyphosate formulations that contain a built-in adjuvant system.

# DIRECTIONS FOR USE TO MAINTAIN BARE GROUND ON NON-CROP AREAS OF FARMS, ORCHARDS AND VINEYARDS

#### RESTRICTIONS AND LIMITATIONS

- DO NOT apply to farm alleys or roads where traffic may result in treated dust settling onto crops or other desirable vegetation.
- . DO NOT apply to ditch banks.
- DO NOT apply more than 12 fluid ounces (0.38 lb ai per acre) per application.
- DO NOT make more than 2 applications per year.
- **DO NOT** make apply more than 24 fluid ounces (0.76 lb ai per acre) per year.
- · Retreatment interval is 14 days.

This product, when used as directed, can be used on farms, orchards and vineyards for non-selective vegetation control to maintain bare ground on non-crop areas that must be kept weed free. Follow all applicable directions as outlined above under "USE INFORMATION".

This product offers residual and postemergence control of susceptible broadleaf and grass weeds as well as an additional mode of action to assist in the control of ALS (acetolactate synthase) resistant weeds. This product can be tank mixed with the herbicides listed in Table - **Tank Mix Combinations to Maintain Bare Ground Non-Crop Areas** for increased residual or postemergence control. The length of residual control is dependent on the rate applied as well as on rainfall and temperature conditions. Length of residual control will decrease as temperature and precipitation increase. Rates of this product of 6 to 12 fluid ounces (0.188-0.38 lb ai) per acre are required to provide residual control of the weeds listed in Table - **Weeds Controlled by Preemergence Application of This Product**.

#### PREEMERGENCE APPLICATION

Apply 6 to 12 fluid ounces (0.188 to 0.38 pound AI per acre) of this product per broadcast acre as a preemergence application. Make preemergence (to weed emergence) applications of this product to a weed-free soil surface. Preemergence applications of this product must be completed prior to weed emergence. Moisture is necessary to activate this product on soil for residual weed control. Dry weather following application of this product may reduce effectiveness. However, when adequate moisture is received after dry conditions, this product will control susceptible germinating weeds.

### POSTEMERGENCE APPLICATION

Apply 6 to 12 fluid ounces (0.188 to 0.38 pound AI per acre) of this product per broadcast acre plus an adjuvant (0.25% v/v non-ionic surfactant or 1 quart per acre crop oil concentrate). The addition of an adjuvant enhances activity of this product on emerged weeds. Thorough spray coverage is necessary to maximize the postemergence activity of this product. Emerged weeds are controlled postemergence with this product, however, translocation of this product within a weed is limited, and control is affected by spray coverage and by the addition of an adjuvant. The most effective postemergence weed control with this product occurs when applied in combination with a surfactant to weeds less than 2 inches in height. Use a tank mix partner in combination with this product for the postemergence control of weeds larger than 2 inches. Specified tank mix partners are listed in Table - Tank Mix Combinations to Maintain Bare Ground Non-Crop Areas.

IMPORTANT: Completely read and follow the label of any potential tank mix partner with this product. When using tank mixtures, use conditions must be in accordance with the most restrictive of the label limitations and precautions on either herbicide label. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Table - Tank Mix Combinations to Maintain Bare Ground on Non-Crop Areas

Glyphosate	2,4-D	Glufosinate	Paraquat

### Table - Weeds Controlled by Preemergence Application of This Product

BROADLEAF WEED SPECIE	S				
COMMON NAME	SCIENTIFIC NAME	ORGANIC MATTER	SOIL TYPE	NUP-ICP HERBICIDE RATE	
Bristly Starbur	Acanthospermum hispidum	Up to 10% <sup>1</sup>	All Soil	Asparagus,	
Carpetweed	Mollugo verticillata		Types <sup>2</sup>	Caneberries,	
Chickweeds,				Garlic, Hops 6 oz/A (0.188lb ai)	
Common	Stellaria media			0 02/11 (0.10015 41)	
Mouseear	Cerastium vulgatum			Sugarcane[3]	
Coffee Senna	Cassia occidentalis			6 to 8 oz/A (0.188-	
Dandelion	Taraxacum officinale			0.25 lb ai)	
Eclipta	Eclipta prostrate				
Eveningprimrose, Cutleaf	eningprimrose, Cutleaf Oenothera laciniata			Bushberries,	
False Chamomile	Tripleurospermum maritima			Cactus[3],	
Filaree,				Citrus Fruit,	
Redstem	Erodium cicutarium			Grapes,	
Whitestem	Erodium moschatum				

Fiddleneck, Coast <sup>[3]</sup>	Amsinckia menziesii
Fleabane, Hairy <sup>[3]</sup>	Conyza bonariensis
Field Pennycress <sup>[3]</sup>	Thlaspi arvense
Florida Beggarweed	Desmodium tortuosum
Florida Pusley	Richardia scabra
Golden Crownbeard	Verbesina encelioides
Groundsel, Common	Senecio vulgaris
Hairy Indigo	Indigofera hirsuta
Hemp Sesbania	Sesbania exaltata
Henbit	Lamium amplexicaule
Jimsonweed	Datura stramonium
Kochia	Kochia scoparia
Lambsquarters, Common	Chenopodium album
Mallow,	
Common (Cheeseweed)	Malva neglecta
Little	Malva parviflora
Horseweed/Marestail	Conyza canadensis
Mayweed/False Chamomile	Matricaria maritima
Morningglories,	
Entireleaf	Ipomoea hederacea var.integriuscula
lvyleaf	Ipomoea hederacea
Red/Scarlet	Ipomoea coccinea
Smallflower	Jacquemontia tamnifolia
Tall	Ipomoea purpurea
Mustards,	
London Rocket	Sisymbrium irio
Tansey	Desurainia pinnata
Tumble	Sisymbrium altissimum
Wild	Brassica kaber
Nettle, Burning	Urtica urens
Nightshades,	
Black	Solanum nigrum
Eastern Black	Solanum ptycanthum
Hairy	Solanum sarrachoides
Pigweeds,	
Palmer Amaranth	Amaranthus palmeri
Redroot	Amaranthus retroflexus
Smooth	Amaranthus hybridus
Spiny Amaranth	Amaranthus spinosus
Tumble	Amaranthus albus
Prickly Lettuce (China Lettuce)	Lactuca serriola
Prickly Sida (Teaweed)	Sida spinosa
Puncturevine	Tribulus terrestris
Purslane,	
Common	Portulaca oleracea
Horse	Trianthema portulacastrum
Radish, Wild	Raphanus raphanistrum
Ragweed, Common	Ambrosia artemisiifolia
Redmaids	Calandrinia ciliata var menziessi.
Redweed	Melochia corchorifolia
Shepherd's-purse	Capsella bursa-pastoris
Smellmelon <sup>[3]</sup>	Cucumis melo
Sowthistle, Annual <sup>[3]</sup>	Sonchus oleraceus
Spotted Spurge	Euphorbia maculata
Spurred Anoda	Anoda cristata
Thistle, Russian	Salsola iberica
Tropic Croton	Croton glandulosus
Venice Mallow	Hibiscus trionum
Waterhemps,	

Nut Trees
(Including
Pistachio),
Olive,
Pome Fruit,
Pomegranate,
Stone Fruit,
and NonBearing Fruit
Trees
6 to 12 oz/A² (0.1880.38 lb ai)

To Maintain
Bare Ground
on Non-Crop
Areas of
Farms,
Orchards &
Vineyards
6 to 12 oz/A (0.1880.38 lb ai)

Common	Amaranthus rudis		
Tall	Amaranthus tuberculatus	Amaranthus tuberculatus	
Wild Poinsettia	Euphorbia heterophylla		
White Cockle <sup>[3]</sup>	Silene latifolia		
Wormwood, Biennial	Artemisia biennis		
Yellow Rocket	Barbarea vulgaris		
GRASS WEED SPECIES			
Barnyardgrass	Echinochloa crus-galli		
Bluegrass, Annual	Poa annua		
Crabgrass,			
Large	Digitaria sanquinalis		
Smooth	Digitaria ischaemum		
Foxtails,			
Bristly	Setaria verticillata		
Giant	Setaria faberi		
Green	Setaria viridis		
Yellow	Setaria glauca		
Goosegrass	Eleusine indica		
Guineagrass	Panicum maximum		
Johnsongrass, Seedling	Sorghum halepense		
Lovegrass, California	Eragrostis diffusa		
Panicum,			
Fall	Panicum dichotomiflorum		
Texas	Panicum texaum		
Ryegrass, Italian	Lolium multiflorum		
Signalgrass, Broadleaf	Brachiaria platyphylla		

<sup>&</sup>lt;sup>1</sup>This product can be used on soils with greater than 10% organic matter; however, length of residual control may be shorter than on soils with lower organic matter content.

Table - Tank Mix Combinations to Maintain Bare Ground on Non-Crop Areas

Glyphosate	2,4-D	Cheetah	Paraguat	

# **AQUATIC WEED CONTROL**

This product may be applied to the following quiescent or slow moving bodies of water:

- Bayous
- Canals
- Drainage ditches
- Lakes
- Marshes
- Ponds (including golf course ponds)
- Reservoirs

This product is most effective when applied to young, actively growing weeds in water with a pH of less than 8.5. Application of this product to public aquatic areas may require special approval and/or permits. Consult with local state agencies, if required.

### **USE RESTRICTIONS**

- **DO NOT** apply to intertidal or estuarine areas.
- DO NOT exceed 400 ppb of this product during any one application.
- DO NOT re-treat the same section of water with this product more than 6 times per year.
- **DO NOT** retreat the same section of water within 28 days of application, except in areas with dense weed vegetation. In these areas, treat the remaining weeds within 10 to 14 days.

<sup>&</sup>lt;sup>2</sup>Use a maximum rate of this product at 6 fluid ounces (0.188 lb ai/A) per acre per application on any soil that has a sand plus gravel content over 80% if bushes, trees or vines are under 3 years of age.

<sup>[3</sup> Not for use in California.]

- In high density weed populations only treat 1/2 the water body at one time.
- Treated water may not be used for irrigation purposes on food crops until at least five (5) days after application.
- DO NOT use in water utilized for crawfish farming.

### **USE PRECAUTIONS**

- There is no post-application holding restriction against use of treated water for drinking or recreational purposes (e.g. swimming, fishing)
- Treated water may be used for irrigation purposes on turf and landscape ornamentals as outlined in the *Irrigation Restrictions Following Application* table.

### IRRIGATION RESTRICTIONS FOLLOWING APPLICATION

Application Method	Application Rate	Average Water Depth	Turf and Landscape Ornamentals	Ornamentals grown for production in Greenhouse and Nursery
0	6 to 12 oz (0.188-0.38	Greater than 3 feet	None	5 days
Surface Spray lb ai) per surface acre	Less than 3 feet	12 hours	5 days	
	Less than 200 ppb	N/A	1 day	5 days
Subsurface 2	200 to 300 ppb	N/A	2 days	5 days
	300 to 400 ppb	N/A	3 days	5 days

# DIRECTIONS FOR USE TO CONTROL FLOATING AND EMERGED WEEDS USING SURFACE APPLICATION

This product will control weeds and algae listed in Table 2 when applied as a broadcast spray with appropriate equipment. For best results, apply this product to the foliage of actively growing weeds.

Table 2. Floating and Emerged Weeds

Common Name	Scientific Name
Alligator Weed	Alternanthera philoxeroides
Duckweed*	Lemna spp.
Frog's-bit	Limnobium spongia
Mosquito Fern	Azolla spp.
Water Fern	Salvinia spp.
Water Lettuce	Pistia stratiotes
Watermeal*	Wolffia spp.
Water Pennywort	Hydrocotyle spp.
Filamentous algae	Pithophara
Filamentous algae	Cladophora

<sup>\*</sup> Coverage is essential for effective duckweed and watermeal control. Any duckweed and/or watermeal escapes left in the water column will quickly re-infest the water body. Apply 200 ppb concentration throughout the water body to control duckweed and watermeal.— see DIRECTIONS FOR USE TO CONTROL SUBMERSED AND FLOATING WEEDS USING SUBSURFACE APPLICATIONS section for additional application information.

# **Surface Application**

Apply this product as a broadcast spray at 6 to 12 fl oz (0.188-0.38 lb ai) of formulated product per acre plus an adjuvant approved for use in aquatics.

This product is a contact herbicide that quickly degrades in the water column so plants that **DO NOT** initially come in contact with the herbicide will not be controlled. Apply this product in a minimum of 30 gallons of water per acre to all areas of the water body where weeds exist. Coverage is essential for effective control as all floating weeds need to be exposed to lethal concentrations in all parts of the water body. Any untreated escapes or re-introductions of plants that were not treated will reestablish in areas where surface weeds had previously been controlled. If a second application is required to provide control, make a treatment once the return of these weeds is first observed, but no sooner than 28 days after the last treatment.

Application of this product during early morning hours may enhance weed control. When applying to densely packed actively growing surface weeds, ensure adequate coverage. Rapid decomposition of vegetation resulting from herbicide treatment can result in loss of oxygen in water. A sudden decrease in dissolved oxygen can result in fish suffocation. If aquatic vegetation is dense, treat floating surface weeds in sections to avoid a rapid decrease in dissolved oxygen.

This product may be tank mixed with 2,4-D, diquat, glyphosate or other registered foliar applied herbicides for enhanced control of floating and emergent weeds.

Consult a manufacturer's label for specific rate restrictions and weeds controlled. Always follow the most restrictive label restrictions and precautions for all products used when making an applications involving tank mixes.

# DIRECTIONS FOR USE TO CONTROL SUBMERSED AND FLOATING WEEDS USING SUBSURFACE APPLICATIONS

This product will control submersed and floating weeds listed in Table 3, Submersed and Floating Weeds Controlled by Subsurface Application, when applied subsurface with appropriate equipment.

Table 3. Submersed and Floating Weeds Controlled by Subsurface Application

Common Name	Scientific Name
Coontail	Ceratophyllum demersum
Duckweed	Lemna spp.
Fanwort	Cabomba caroliniana
Hydrilla	Hydrilla verticillata
Hygrophila	Hygrophila polysperma
Naiad, Southern	Najas guadalupensis
Pondweed, Curlyleaf	Potamogeton crispus
Pondweed, Sago	Potamogeton pectinatus
Pondweed, Variable-Leaf	Potamogeton diversifolius
Water Fern	Salvinia spp.
Water Lettuce	Pistia stratiotes
Watermeal	Wolffia spp.
Watermilfoil, Eurasian	Myriophyllum spicatum
Watermilfoil, Variable-Leaf	Myriophyllum heterophyllum

### Subsurface Treatment

Apply this product at a rate that will produce an initial concentration of 200 to 400 ppb (of active ingredient flumioxazin) in the water column.

This product is rapidly absorbed by target plants, but also breaks down quickly in water with a pH greater than 8.5. The pH of water surrounding mats of submersed vegetation can exceed 8.5 by early to mid-day, due to photosynthetic processes. Application of this product under these conditions may provide only partial weed control, and regrowth is likely. For best control, apply this product in a minimum of 30 gallons of water per acre in the early morning to actively growing weeds and early in the season before surface matting occurs. Complete coverage and sufficient contact time of submersed weeds with this product is required for optimal performance. Application of this product with subsurface trailing hoses designed to distribute the herbicide within the plant stand will provide more effective and longer term control of submersed weeds. Use Table 3, Subsurface Application Rates to determine the amount of this product needed to achieve desired concentration at different water depths. Use higher concentrations when weed biomass is heavy and/or weeds are more mature and topped out. Any untreated plants that are left in the water column can re-infest treated areas that had previously been controlled. If a second application is required to provide control, make a treatment once the return of these weeds is first observed, but no sooner than 28 days after the last treatment.

When applying this product to densely packed actively growing submersed weeds, a rapid decomposition of vegetation resulting from herbicide treatment can result in loss of oxygen in water. A sudden decrease in dissolved oxygen can result in fish suffocation. If aquatic vegetation is dense, treat submersed weeds in sections to avoid a rapid decrease in dissolved oxygen.

This product may be tank mixed with other registered submersed applied herbicides for enhanced control of submersed and floating weeds.

### **Application Equipment for Water Column Treatment**

To improve distribution in the water column and ensure adequate coverage, when possible apply this product with subsurface trailing hoses in order to place the herbicide under the surface and throughout the biomass of aquatic vegetation. Keep swath width to a minimum in order to maximize contact with submersed aquatic vegetation. In small shallow water bodies, surface sprays may be required to apply this product. Apply by backpack or handgun sprayer or other application equipment that will ensure adequate coverage of target plant.

### Information on Hydrilla Control in Florida

Apply this product as a subsurface treatment for hydrilla control. For best control of hydrilla apply during the late Winter/early Spring and/or early to late Fall. Efficacy of this product will be enhanced at these timings due to lower potential biomass present and lower pH of the water. If applied to mature topped out hydrilla, this product will cause some discoloration and loss of growing tips, but regrowth will be rapid

Tank mixing this product with other registered herbicides is directed, especially if hydrilla is approaching maturity or biomass is heavy.

### Subsurface Application Rates

Water Depth (feet)	Pints of This Product Required Per Surface Acre to Achieve Desired Water Concentration		
	200 ppb	300 ppb	400 ppb
1	1.1	1.6	2.1
2	2.1	3.2	4.2
3	3.2	4.8	6.4
4	4.2	6.4	8.5
5	5.3	8.0	10.6

**Example:** to achieve an initial concentration of 200 ppb of flumioxazin in a 4 foot deep water column, apply 4.2 pints of this product per surface acre

### **BARE GROUND NON-CROP AREAS**

# DIRECTIONS FOR USE TO MAINTAIN BARE GROUND NON-CROP AREAS

This product, when used as directed, can be used for non-selective vegetation control to maintain bare ground non-crop areas that must be kept weed-free. Apply this product only to:

- · Bare ground under guard rails, above-ground pipelines, and railroad beds, railroad yards and surrounding areas
- Bare ground in parking and storage areas, plant sites, substations, pumping stations, and tank farms
- · Bare ground areas of airports, brick yards, industrial plant sites, lumber yards, military installations, and storage areas
- Bare ground around farm buildings, and along ungrazed fence rows, wind breaks and shelter belts
- Road surfaces, improved roadside areas and gravel shoulders.

This product offers residual and postemergence control of susceptible broadleaf and grass weeds as well as additional mode of action to assist in the control of ALS (acetolactate synthase) resistant weeds. See Table 1 under WEEDS CONTROLLED section for a list of broadleaf weeds and grasses. The length of residual control is dependent on the rate applied as well as on rainfall and temperature conditions. Length of residual control will decrease as temperature and precipitation increase.

### **USE RESTRICTIONS**

- **DO NOT** apply more than 12 fl oz (0.38 lb ai) of this product per acre per application.
- **DO NOT** apply more than 24 fl oz (0.75 lb ai) of this product per acre per year.
- DO NOT apply more than 2 applications at 12 fl oz (0.38 lb ai) per acre or 3 applications at 8 fl oz (0.25 lb ai) per acre per year.
- **DO NOT** apply when weather conditions favor spray drift from treated areas.
- **DO NOT** incorporate into soil after application.
- DO NOT apply this product through any type of irrigation system.
- **DO NOT** apply to moist or wet desirable plant foliage.
- **DO NOT** apply within 300 feet of non-dormant pome or stone fruit crops.
- DO NOT re-apply this product within 30 days.

### **USE PRECAUTIONS**

Treatment of powdery, dry soil or light sandy soil, or light sandy soil when there is little to no likelihood of rainfall soon after may
result in off target movement and possible damage to actively growing susceptible crops when soil particles are moved by wind
or water. DO NOT apply when these soil and environmental conditions are present.

### PREEMERGENCE APPLICATION

Apply 8 to 12 fl oz (0.25 to 0.38 lb ai) per acre of this product per broadcast acre as a preemergence application. Make preemergence (to weed emergence) applications of this product must be made to a weed free soil surface. Preemergence applications of this product must be completed prior to weed emergence.

### POSTEMERGENCE APPLICATION

Apply 8 to 12 fl oz (0.25 to 0.38 lb ai) per acre of this product per broadcast acre plus an adjuvant (0.25% v/v non-ionic surfactant or 1 quart per acre crop oil concentrate). The addition of an adjuvant enhances this product activity on emerged weeds. Thorough spray coverage is necessary to maximize the postemergence activity of this product. Emerged weeds are controlled postemergence with this product, however, translocation of this product within a weed is limited, and control is affected by spray coverage and by the addition of an adjuvant. The most effective postemergence weed control with this product occurs when applied in combination with a surfactant to weeds less than 2 inches in height.

# IN CONIFER RE-FORESTATION SITES FOLLOWING TIMBER HARVEST<sup>1</sup> DIRECTIONS FOR USE

This product is a preemergence and postemergence herbicide for control of selected grass and broadleaf weeds in conifer reforestation sites following timber harvest operations. See Table 1 under WEEDS CONTROLLED section for a list of broadleaf weeds and grasses. This product may be used as a site preparation treatment prior to transplanting of conifers or as a conifer release treatment after stand establishment.

†Not for use in CA

### Site Preparation - Application Before Transplanting

Apply 8 to 12 fl oz (0.313-0.38 lb ai) of this product per acre. Transplant operations must take place at least 3 months after application. To obtain optimal weed control, apply this product before weed emergence or after a burndown herbicide has controlled existing vegetation. If existing weed canopy is less than 40%, this product may be tank mixed with a burndown herbicide to provide preemergence weed control.

Apply this product in at least 10 gallons of water per acre to achieve uniform spray coverage using ground or aerial spray equipment.

### Conifer Release Treatments — Applications only within 3 years after transplanting.

Apply 8 to 12 fl oz (0.313-0.38 lb ai) of this product per acre over the top of trees prior to budbreak in the spring or after dormancy in fall. **DO NOT** apply this product over the top of trees after budbreak or needle spotting and defoliation may occur. This product should not affect new growth of trees. See Table 4 for a list of tolerant conifers for over the top treatments.

**IMPORTANT:** When applied as directed, the conifers listed in Table 4 have shown tolerance to this product. However, this product is a very active herbicide. Exercise responsible judgment and caution until familiarity is gained with this product. If a desired conifer species is not listed in Table 4, evaluate the safety of this product on a small number of plants under commercial growing conditions, and monitor plant response for four to six weeks for phytotoxicity. Test this product on a small number of plants to determine if this product can be used safely on a widespread basis. **DO NOT** apply this product over the top of conifers until trees have been growing in the treated area for at least one year. The use of nylon mesh wraps, commonly used to deter animal browsing, may increase plant injury if placed on plants after over the top application of this product.

### **USE RESTRICTIONS**

- **DO NOT** apply more than 12 fl oz (0.38 lb ai) of this product per acre per application.
- **DO NOT** apply more than 24 fl oz (0.75 lb ai) of this product per acre per year.
- **DO NOT** apply more than 2 applications at 12 fl oz (0.38 lb ai) per acre or 3 applications at 8 fl oz (0.25 lb ai) per acre per year.
- **DO NOT** apply when weather conditions favor spray drift from treated areas.
- **DO NOT** incorporate into soil after application.
- DO NOT apply this product through any type of irrigation system.
- DO NOT apply to moist or wet desirable plant foliage.
- DO NOT apply within 300 feet of non-dormant pome or stone fruit crops.
- DO NOT re-apply this product within 30 days.

# **USE PRECAUTIONS**

Treatment of powdery, dry soil or light sandy soil, or light sandy soil when there is little to no likelihood of rainfall soon after may
result in off target movement and possible damage to actively growing susceptible crops when soil particles are moved by wind
or water. DO NOT apply when these soil and environmental conditions are present.

# TABLE 4 - TOLERANT CONIFER TREE SPECIES

COMMON NAME	SCIENTIFIC NAME
Arborvitae	
American	Thuja occidentalis
Oriental	Thuja orientalis
Fir	
Concolor	Abies concolor
Cork Bark	Abies lasiocarpa
Douglas	Pseudotsuga menzesii
Fraser	Abies fraseri
Grand	Abies grandis
Noble	Abies procera
Turkish	Abies bommuelleriana
Hemlock	
Eastern	Tsuga Canadensis
Western	Tusga heterophylla
Juniper	
Blue Star	Juniperus scopularum
Creeping	Juniperus horizontalis
Japanese Garden	Juniperus chinensis
Tamarix	Juniperus Sabina
Pine	

Austrian	Pinus nigra
Eastern White	Pinus strobes
Jack	Pinus banksiana
Japanese Black	Pinus thunbergiana
Loblolly	Pinus taeda
Lodgepole	Pinus contorta
Longleaf	Pinus palustris
Mugo	Pinus mugo
Ponderosa	Pinus ponderosa
Sand	Pinus clausa
Scotch	Pinus sylvestris
Shortleaf	Pinus echinata
Slash	Pinus elliottii
Virginia	Pinus virginiana
Spruce	
Blue	Picea pungens
Dwarf Alberta	Picea glauca conica
Norway	Picea abies
Sitka	Picea sitchensis
Yew	
English	Taxus baccata
Japanese	Taxus cuspidate

### IN POPLAR PLANTATIONS AND TIMBER RE-FORESTATION SITES<sup>1</sup>

### **DIRECTIONS FOR USE**

This product is a preemergence and postemergence herbicide for control of selected grass and broadleaf weeds in poplar plantations and timber re-forestation sites following timber harvest operations. See Table 1 under WEEDS CONTROLLED section for a list of broadleaf weeds and grasses. This product may be used as a site preparation treatment prior to transplanting of trees or as a release treatment after stand establishment.

†Not for use in CA

### Site Preparation - Application Before Transplanting

Apply 8 to 12 fl oz (0.313-0.38 lb ai) of this product per acre. Transplant operations must take place at least 3 months after application. To obtain optimal weed control, apply this product before weed emergence or after a burndown herbicide has controlled existing vegetation. If existing weed canopy is less than 40%, this product may be tank mixed with a burndown herbicide to provide preemergence weed control.

Apply this product in at least 10 gallons of water per acre to achieve uniform spray coverage using ground or aerial spray equipment.

# Release Treatments — Applications Within 3 Years After Transplanting

Apply 8 to 12 fl oz (0.313-0.38 lb ai) of this product per acre over the top of trees prior to budbreak in the spring or after dormancy in fall. **DO NOT** apply this product over the top of trees after budbreak or leaf spotting and defoliation may occur. This product should not affect new growth of trees of tolerant poplars for over the top treatments.

### **TANK MIXING — Poplar Release Treatments**

Certain liquid formulations of other pesticides may increase the postemergence activity of this product, but may also increase the potential for injury when applied over the top of various plants. Therefore, tank mixtures of these materials with this product may be more injurious than this product applied alone and need to be tested to determine if they can be used safely on a widespread basis.

### **ADJUVANTS** — Poplar Release Treatments

When applying Release Treatments, DO NOT mix this product with any adjuvant or fertilizer.

**IMPORTANT:** When applied as directed, poplars (*Populus balsamifera*, *P. niger and P. tremuloides*), hybrid poplars (*P.* sp. x sp.), and cottonwoods (*P. deltoids and P. trichocarpa*) have shown tolerance to this product. However, this product is a very active herbicide. Exercise responsible judgment and caution until familiarity is gained with this product. Test this product on a small number of plants to determine if this product can be used safely on a widespread basis. **DO NOT** apply this product over the top unless trees are more than one year old.

### **USE RESTRICTIONS**

- **DO NOT** apply more than 12 fl oz (0.38 lb ai) of this product per acre per application.
- **DO NOT** apply more than 24 fl oz (0.75 lb ai) of this product per acre per year.
- DO NOT apply more than 2 applications at 12 fl oz (0.38 lb ai) per acre or 3 applications at 8 fl oz (0.25 lb ai) per acre per year.
- **DO NOT** apply when weather conditions favor spray drift from treated areas.

- **DO NOT** incorporate into soil after application.
- **DO NOT** apply this product through any type of irrigation system.
- DO NOT apply to moist or wet desirable plant foliage.
- DO NOT apply within 300 feet of non-dormant pome or stone fruit crops.
- **DO NOT** re-apply this product within 30 days.

### **USE PRECAUTIONS**

Treatment of powdery, dry soil or light sandy soil, or light sandy soil when there is little to no likelihood of rainfall soon after may
result in off target movement and possible damage to actively growing susceptible crops when soil particles are moved by wind
or water. DO NOT apply when these soil and environmental conditions are present.

### **TURF & ORNAMENTAL SITES**

### **DIRECTIONS FOR USE**

This product is a preemergence and early postemergence herbicide for control of selected grass and broadleaf weeds in and around ornamental woody shrubs, deciduous trees and conifers (including Christmas trees) grown outdoors in containers or in the field (in ground), to maintain non-crop areas and dormant Bermudagrass. See Table 1 under WEEDS CONTROLLED section for a list of broadleaf weeds and grasses.

This product controls weeds by inhibiting protoporphyrinogen oxidase, an essential enzyme required by plants for chlorophyll biosynthesis. Seedling weeds are controlled preemergence when exposed to sunlight following contact with the soil applied herbicide.

### **USE RESTRICTIONS**

- **DO NOT** apply more than 12 fl oz (0.38 lb ai) of this product per acre per application.
- **DO NOT** apply more than 24 fl oz (0.75 lb ai) of this product per acre per year.
- DO NOT apply more than 2 applications at 12 fl oz (0.38 lb ai) per acre or 3 applications at 8 fl oz (0.25 lb ai) per acre per year.
- **DO NOT** apply in enclosed greenhouse structures if plants are present.
- DO NOT move plants for 24 hours into enclosed greenhouses until the area treated with this product has been watered.
- **DO NOT** apply when weather conditions favor spray drift from treated areas.
- DO NOT graze treated fields or hay to livestock.
- **DO NOT** incorporate into soil after application.
- **DO NOT** apply this product through any type of irrigation system.
- DO NOT apply when plants are under stress from insects, diseases, animals or winter injury, planting shock or any other stresses.
- Only apply to healthy established trees and ornamentals.
- Retreatment interval is 14 days.

### IN ESTABLISHED CONTAINER AND FIELD GROWN CONIFERS (INCLUDING CHRISTMAS TREES)

### **DIRECTIONS FOR USE**

Apply this product as a single or split application to established container and field grown conifers, which includes applications to Christmas tree plantations. The conifers listed in Table 5 have exhibited tolerance to this product only when the product is applied to dormant or hardened off plant material. If applied over the top of plant foliage, apply this product before spring bud break or after conifers have sufficiently hardened off. During periods of cool, cloudy weather, use caution to ensure conifers have hardened off prior to herbicide application. **DO NOT** apply to conifers within 1 year of seedling emergence.

### PREEMERGENCE APPLICATION

Apply 8 to 12 fl oz (0.25 to 0.38 pound ai per acre) of this product per broadcast acre before weeds emerge. Apply to weed free, established conifers grown in containers or in the field (in ground). If possible, irrigate treated area with 0.5 to 0.75 inch of water immediately following application. This product may be sprayed directly over conifers listed in Table 5, provided bud break has not occurred or plants are hardened off. Needle burn may be observed on new flush if plants are actively growing at time of application. However, this product will typically not affect subsequent growth. If conifers are not dormant or hardened off at time of application, and foliar injury cannot be tolerated, apply this product as a directed spray, taking care to minimize direct contact or drift of sprays onto foliage. Mechanically incorporating this product after application will disturb soil surfaces, which may reduce herbicidal efficacy. When applied before weed germination, this product will control broadleaf and grassy weeds listed in Table 1.

### POSTEMERGENCE APPLICATION

Apply 8 to 12 fl oz (0.25 to 0.38 lb ai) per acre of this product per broadcast acre after weeds have emerged. This product may be sprayed directly over conifers listed in Table 5, provided bud break has not occurred or plants are hardened off. Needle burn may be observed on new flush if plants are actively growing at time of application. However, this product will typically not affect subsequent growth. If conifers are not dormant or hardened off at the time of application, and foliar injury cannot be tolerated, apply this product as a directed spray, taking care to minimize direct contact or drift of sprays onto foliage.

If applied when weeds are actively growing and no larger than 2 inches in height, this product will provide postemergence control of

broadleaf weeds and grasses listed in Table 1. Postemergence control of this product may be more effective with certain weed species, and may not control mature, stressed or hardened off weeds that are not actively growing at the time of application.

# **TOLERANT CONIFERS**

This product may be applied to the conifer species listed in Table 5. If a desired conifer species is not listed in Table 5, evaluate the safety of this product on a small number of plants under commercial growing conditions, and monitor plant response for four to six weeks for phytotoxicity. Testing this product on a small number of plants will determine if this product can be used safely on a widespread basis.

### **USE RESTRICTIONS**

- DO NOT apply more than 12 fl oz (0.38 lb ai) of this product per acre per application.
- DO NOT apply more than 24 fl oz (0.75 lb ai) of this product per acre per year.
- DO NOT apply more than 2 applications at 12 fl oz (0.38 lb ai) per acre or 3 applications at 8 fl oz (0.25 lb ai) per acre per year.
- DO NOT re-apply this product within 30 days.

# **TABLE 5 - TOLERANT CONIFER TREE SPECIES**

COMMON NAME	SCIENTIFIC NAME
Arborvitae	
American	Thuja occidentalis
Oriental	Thuja orientalis
Fir	
Concolor	Abies concolor
Cork Bark	Abies lasiocarpa
Douglas	Pseudotsuga menzesii
Fraser	Abies fraseri
Grand	Abies grandis
Noble	Abies procera
Turkish	Abies bommuelleriana
Hemlock	
Eastern	Tsuga Canadensis
Western	Tusga heterophylla
Juniper	
Blue Star	Juniperus scopularum
Creeping	Juniperus horizontalis
Japanese Garden	Juniperus chinensis
Tamarix	Juniperus Sabina
Pine	
Austrian	Pinus nigra
Eastern White	Pinus strobes
Jack	Pinus banksiana
Japanese Black	Pinus thunbergiana
Loblolly	Pinus taeda
Lodgepole	Pinus contorta
Longleaf	Pinus palustris
Mugo	Pinus mugo
Ponderosa	Pinus ponderosa
Sand	Pinus clausa
Scotch	Pinus sylvestris
Shortleaf	Pinus echinata
Slash	Pinus elliottii
Virginia	Pinus virginiana
Spruce	
Blue	Picea pungens
Dwarf Alberta	Picea glauca conica

Norway	Picea abies
Sitka	Picea sitchensis
Yew	
English	Taxus baccata
Japanese	Taxus cuspidate

### IN CONTAINER AND FIELD DECIDUOUS TREES AND NON-BEARING FRUIT AND NON-BEARING NUT TREES

### **DIRECTIONS FOR USE**

This product may be applied as single or split applications to container and field grown deciduous trees with an established root system. The deciduous trees listed in Table 3 have exhibited tolerance to this product only when applied to the soil and base of plants. Application of this product to deciduous foliage or green bark may result in unacceptable injury.

This product may be applied to established (or transplanted) container and field grown deciduous trees. **DO NOT** apply to trees that are less than one year old or have been transplanted less than one year, unless completely protected by non-porous wraps, grow tubes, waxed protectors or other forms of protection to young foliage and/or bark. **DO NOT** harvest fruit or nuts from treated trees within one year of application.

**IMPORTANT:** Direct application of this product to the soil surface and away from plant foliage and bark. Avoid direct spray contact on plant surfaces, foliage and green bark or injury may result. Application of this product after bud swell may cause injury if herbicide contacts foliage. Avoid application under environmental conditions that favor drift to non-targeted areas.

### PREEMERGENCE APPLICATION

Apply 8 to 12 fl oz (0.25 to 0.38 lb ai) per acre of this product per broadcast acre as a preemergence (to weed emergence) application. Apply this product to weed free deciduous trees grown in containers or in the field (in-ground). If possible, irrigate treated area with 0.5 to 0.75 inch of water immediately following application. This product may be applied to the soil surface and base of deciduous trees, provided that direct and indirect (drift) applications to plant foliage, flowers and green bark does not occur. Mechanically incorporating this product will disturb soil surfaces, which may reduce herbicidal efficacy. The use of spray shields that limit exposure of foliage and bark to this product is suggested. When applied before weed germination, this product will control broadleaf and grassy weeds. See Table 1 under WEEDS CONTROLLED section for a list of broadleaf weeds and grasses.

### POSTEMERGENCE APPLICATION

Apply 8 to 12 fl oz (0.25 to 0.38 lb ai) per acre of this product per broadcast acre plus an adjuvant (0.25% v/v non-ionic surfactant). Make postemergence (to weed emergence) applications of this product when weeds are actively growing and are no larger than 2 inches in height. The addition of a surfactant enhances this product activity on emerged weeds. Thorough spray coverage is necessary to maximize the postemergence activity of this product. When applied after weed germination, this product will provide preemergence and postemergence control of broadleaf weeds and grasses. See Table 1 under WEEDS CONTROLLED section for a list of broadleaf weeds and grasses

Postemergence control of this product may be more effective with certain weed species, and may not control mature, stressed or hardened off weeds that are not actively growing at the time of application.

# TOLERANT DECIDUOUS TREES, NON-BEARING FRUIT AND NON-BEARING NUT TREES

This product may be applied as a directed spray to the deciduous, non-bearing fruit and non-bearing nut trees species listed in Table 6. If a desired tree species is not listed in Table 6, evaluate the safety of this product on a small number of plants under commercial growing conditions and monitor plant response for four to six weeks for phytotoxicity. Testing this product on a small number of plants will determine if this product can be used safely on a widespread basis.

# **USE RESTRICTIONS**

- **DO NOT** apply more than 12 fl oz (0.38 lb ai) of this product per acre per application.
- **DO NOT** apply more than 24 fl oz (0.75 lb ai) of this product per acre per year.
- DO NOT apply more than 2 applications at 12 fl oz (0.38 lb ai) per acre or 3 applications at 8 fl oz (0.25 lb ai) per acre per year.
- **DO NOT** re-apply this product within 30 days.

# TABLE 6 - TOLERANT DECIDUOUS TREE SPECIES

COMMON NAME	SCIENTIFIC NAME
Apricot*	Prunus spp.
Ash	Fraxinus spp.
Birch	Betula spp.
Buckeye	Aesculus spp.
Cherry*	Prunus spp.
Chestnut	Castanea spp.
Citrus*	Citrus spp.

Dogwood	Cornus spp.
Eucalyptus	Eucalyptus spp.
Ginkgo	Ginkgo spp.
Hawthorn	Crataegus spp.
Honeylocust	Gleditsia spp.
Larch	Larix spp.
Lilac	Syringa spp.
Maple**	Acer spp.
Myrtle, Crepe	Lagerstroemia indica
Oak	Quercus spp.
Poplar	Populus spp.
Peach*	Prunus spp.
Plum*	Prunus spp.
Pecan*	Carya spp.
Redbud	Cercis Canadensis
Sweetgum	Liquidambar styraciflua
Sycamore	Plantanus spp.
Walnut, Black	Juglans nigra
Willow	Salix spp.

<sup>\*</sup>Non-bearing trees only.

### AROUND ESTABLISHED WOODY LANDSCAPE ORNAMENTALS AND TO MAINTAIN NON-CROP AREAS

### **DIRECTIONS FOR USE**

Application of this product in the vicinity of ornamental plants is limited to directed sprays around well established woody shrubs and trees including azalea, euonymus, holly, and the conifers and deciduous trees listed in Tables 5 and 6. This product may also be applied to maintain weed control in non-crop areas in apartment complexes, fence rows, gravel surfaces and driveways, ground mats and pads prior to the addition of containerized plants, golf courses, lumberyards, office complexes, parks, parking areas, recreational sites, schools, sidewalks, storage areas, grass water waterways, rain gardens, and other similar industrial sites. **DO NOT** apply this product within any enclosed structure in residential or commercial landscapes.

This product offers postemergence and residual control of susceptible grasses and broadleaf weeds, as well as additional mode of action to assist in the control of resistant weeds. See Table 1 under WEEDS CONTROLLED section for a list of broadleaf weeds and grasses. The length of residual control is dependent on the rate applied, rainfall and temperature. Length of residual control will decrease as temperature and precipitation increase.

IMPORTANT: Contact with spray or spray drift of this product may cause severe injury or destruction of certain desirable plants, especially herbaceous species including bedding plants or direct seeded annual and perennial flowers. Therefore, DO NOT apply this product over the top of ornamental plants growing in the landscape, and DO NOT allow spray of this product to contact, drift or splash from soil onto the foliage, green stems, exposed roots or fruit of desirable plants. Avoid application of this product under conditions that favor drift of sprays onto desired ornamentals or turfgrass. The use of spray shields that limit the plant exposure to this product is directed when applying this product near desirable plants.

**DO NOT** apply this product around landscape ornamentals until plants have been actively growing for at least 30 days after transplanting, or for at least two months before ornamentals will be planted into treated areas.

### PREEMERGENCE APPLICATION (NO WEEDS ARE PRESENT)

Mix 0.18 to 0.27 fl oz (5.3 to 8.1 mls) (0.0.0058- 0.0039 lb ai) of this product per gallon of spray solution, and apply 1 gallon of spray solution to 1,000 square feet (8 to 12 fl oz/A) (0.313-0.38 lb ai) prior to weed germination (see Backpack Application table for more options and details). Apply this product to weed free soil, mulch or gravel surfaces. Moisture is necessary to activate this product on soil for residual weed control. When applied before weed germination, this product will control the broadleaf weeds and grasses listed in Table 1.

Established landscape ornamentals have shown tolerance to this product **only** when applied to the soil at the base of the plant. For maximum plant safety when using around desirable ornamentals, direct applications of this product to the soil, and leave a sufficient untreated buffer to ensure spray solution does not contact desired plants. **DO NOT** harvest fruit or nuts from treated trees within one year of application.

# POSTEMERGENCE APPLICATION (WEEDS ARE PRESENT)

Mix 0.18 to 0.27 fl oz (5.3 to 8.1 mls) (0.0.0058- 0.0039 lb ai) of this product per gallon of spray solution (8 to 12 fl oz/A) (0.313-0.38 lb ai) and apply 1 gallon of spray solution to 1,000 square feet to actively growing weeds (see calibration chart for backpack sprayers). Tank mixing this product with glyphosate will increase the spectrum of postemergence weed control over this product alone, provide faster postemergence weed control than glyphosate alone, and provide preemergence and postemergence control of

<sup>\*\*</sup>Not for use on maple trees used for production of maple sap or syrup.

the broadleaf weeds and grasses listed in Table 1.

Established landscape ornamentals have shown tolerance to applications of this product plus glyphosate **only** when applied to the soil at the base of the plant, and sprays **DO NOT** directly contact or drift onto desirable plants. For maximum plant safety when using around desirable ornamentals, direct applications of this product plus glyphosate towards the soil and leave a sufficient non-treated buffer to ensure spray solution does not contact desired plants.

Thorough spray coverage of weeds is necessary to maximize weed control. Spray coverage must be uniform, but **DO NOT** spray to the point of runoff.

**IMPORTANT:** Completely read and follow the glyphosate label. When tank mixing this product with other products, always follow the most restrictive use conditions on either label.

### **USE RESTRICTIONS**

- **DO NOT** apply more than 12 fl oz (0.38 lb ai) of this product per acre per application.
- **DO NOT** apply more than 24 fl oz (0.75 lb ai) of this product per acre per year.
- **DO NOT** apply more than 2 applications at 12 fl oz (0.38 lb ai) per acre or 3 applications at 8 fl oz (0.25 lb ai) per acre per vear.
- DO NOT re-apply this product within 30 days.
- **DO NOT** harvest fruit or nuts from treated trees within one year of application.

# ON DORMANT BERMUDAGRASS GROWN ON RESIDENTIAL SITES, GOLF COURSES, SOD PRODUCTION AND SIMILAR AREAS

### **DIRECTIONS FOR USE**

This product may be applied as a single or split application to well established dormant Bermudagrass. This product will provide preemergence and early postemergence control of annual bluegrass, chickweed, henbit and other winter annual weeds. See Table 1 under WEEDS CONTROLLED section for a list of broadleaf weeds and grasses. This product will also provide preemergence control of crabgrass, goosegrass and other summer annual weeds. This product may be applied to dormant turfgrass in such areas as apartment complexes, golf courses, sod farms, roadsides, sports fields, campgrounds, office complexes, parking areas, recreational sites, schools, residential turf and other similar sites. Bermudagrass exhibits tolerance to this product only when applied to semi-dormant or completely dormant turf in the late fall and before active growth resumes in the late winter/early spring. Application of this product to actively growing turfgrass (warm season and cool season) or during green-up may cause unacceptable injury.

### **BROADCAST APPLICATIONS**

Apply 8 to 12 fl oz (0.313-0.38 lb ai) of this product per broadcast acre as a preemergence (to weed emergence) application. If weeds are present at the time of application apply this product plus an adjuvant (0.25% v/v non-ionic surfactant). Make postemergence (to weed emergence) applications of this product when weeds are actively growing and no larger than 2 inches in height. Thorough spray coverage is necessary to maximize the postemergence activity of this product. When applied after weed germination, this product will provide preemergence and postemergence control of broadleaf weeds and grasses. See Table 1 under WEEDS CONTROLLED section for a list of broadleaf weeds and grasses. Postemergence weed control with this product may be more effective on certain weed species, and may not control mature, stressed or hardened off weeds that are not actively growing at the time of application.

This product will provide best control of annual bluegrass when applied in the late fall while plants are small. Control may be less effective when applied in the winter during under cold conditions when weeds are not actively growing. A second application of this product may be required to provide adequate season-long annual bluegrass control. This product will provide best control of crabgrass, goosegrass and other summer annual weeds when applied in the late winter before turfgrass resumes active growth.

### TANK MIXING WITH OTHER TURFGRASS HERBICIDES

This product may be tank mixed with Manor Herbicide (metsulfuron-methyl).

### **USE AROUND BENTGRASS AND POA GREENS**

This product has limited potential for lateral movement on level terrain, but can potentially move down slope after excessive rainfall and affect sensitive turf species including bentgrass and *Poa trivialis*. When applied upslope from bentgrass greens or Bermudagrass greens overseeded with *Poa trivialis*, allow an adequate buffer zone between greens and the treated area. If uncertain about the size of the buffer, 15 feet is suggested.

Risk of movement is decreased when this product is applied to soil at less than field capacity. Avoid application when heavy rain is imminent or when the soil is saturated.

### **USE RESTRICTIONS**

- **DO NOT** apply more than 12 fl oz (0.38 lb ai) of this product per acre per application.
- **DO NOT** apply more than 24 fl oz (0.75 lb ai) of this product per acre per year.
- DO NOT apply more than 2 applications at 12 fl oz (0.38 lb ai) per acre or 3 applications at 8 fl oz (0.25 lb ai) per year.
- · Exercise good judgment and caution when applying to dormant turfgrass until familiarity is gained with this product.
- DO NOT apply to golf course putting greens.
- DO NOT apply to warm season turfgrass that has been overseeded with cool season turfgrass (ex. perennial rye, Poa trivialis).
- DO NOT irrigate within 1 hour before or after application.
- **DO NOT** apply if rain is expected within 1 hour after application.

- DO NOT mow turfgrass within 12 hours after application.

  DO NOT apply within 30 days prior to cutting or lifting sod.

  DO NOT re-apply this product within 30 days.

  DO NOT apply in fall before turfgrass has ceased active growth or in late winter/ early spring after turfgrass has resumed active growth.

# **USE PRECAUTIONS**

Allow 8 weeks between application and seeding or sodding of turfgrass.

### Storage and Disposal

DO NOT contaminate water, food or feed by storage, disposal or cleaning of equipment.

### **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. Not for use or storage 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 HANDLING:**

Nonrefillable Containers 5 gallons or less: Nonrefillable container. DO NOT reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows:

Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. 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. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke.

Nonrefillable containers larger than 5 gallons: Nonrefillable container. DO NOT reuse or refill this container. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Offer for recycling if available. If recycling or reconditioning not available, puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**Refillable containers larger than 5 gallons:** Refillable container. Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

### **WARRANTY DISCLAIMER**

The directions for use of this product must be followed carefully. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, (1) THE GOODS DELIVERED TO YOU ARE FURNISHED "AS IS" BY MANUFACTURER OR SELLER AND (2) MANUFACTURER AND SELLER MAKE NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND TO BUYER OR USER, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE, OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE. UNINTENDED CONSEQUENCES, INCLUDING BUT NOT LIMITED TO INEFFECTIVENESS, MAY RESULT BECAUSE OF SUCH FACTORS AS THE PRESENCE OR ABSENCE OF OTHER MATERIALS USED IN COMBINATION WITH THE GOODS, OR THE MANNER OF USE OR APPLICATION, INCLUDING WEATHER, ALL OF WHICH ARE BEYOND THE CONTROL OF MANUFACTURER OR SELLER AND ASSUMED BY BUYER OR USER. THIS WRITING CONTAINS ALL OF THE REPRESENTATIONS AND AGREEMENTS BETWEEN BUYER, MANUFACTURER AND SELLER, AND NO PERSON OR AGENT OF MANUFACTURER OR SELLER HAS ANY AUTHORITY TO MAKE ANY REPRESENTATION OR WARRANTY OR AGREEMENT RELATING IN ANY WAY TO THESE GOODS.

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MANUFACTURER'S OR SELLER'S TOTAL LIABILITY SHALL BE FOR DAMAGES NOT EXCEEDING THE COST OF THE PRODUCT.

If you DO NOT agree with or DO NOT accept any of the directions for use, the warranty disclaimers, or limitations on liability, DO NOT use the product, and return it unopened to the Seller, and the purchase price will be refunded.

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# **Optional Marketing Claims:**

Nufarm Grow a better tomorrow. Grow a better tomorrow.

### **INOTES TO REVIEWER:**

State restrictions will not be found on the container label if the product is not registered in that associated state.

Making the product more restrictive then Federally accepted by incorporating the optional statement "Not for use in California." may be undertaken on the container label for any use, weed or crop as determined to be necessary to procure CADPR registration.]

[Any crops, uses and/or use patterns inclusive of all applicable restrictions, limitations and precautions found on **Subset 1 - NUP-ICP HERBICIDE** (For use in Row Crop Market Segment) of the US EPA Accepted Section 3 label may be found on the container labeling for **Subset 2 - NUP-ICP HERBICIDE** (For use in Tree Nut, Vine, and Vegetables Market Segment).

Conversely any crops, uses, use patterns inclusive of all applicable restrictions, limitations and precautions found on **Subset 2 - NUP-ICP HERBICIDE** (For use in Tree Nut, Vine, and Vegetables Market Segment) of the US EPA Accepted Section 3 label may be found on the container labeling for **Subset 1 - NUP-ICP HERBICIDE** (For use in Row Crop Market Segment).