



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs  
Registration Division (7505P)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460

EPA Reg. Number:

19713-697

Date of Issuance:

6/7/2017

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

DICAMBA DMA HERBICIDE

Name and Address of Registrant (include ZIP Code):

Luz G Chan  
Drexel Chemical Company  
P.O. Box 13327  
Memphis, TN 38113-0327

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

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

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

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

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

Date:

6/7/2017

2. Be aware that proposed data requirements have been identified in a Work Plan. For more information on these proposed data requirements, you may contact the Chemical Review Manager in the Pesticide Reevaluation Division:  
<http://iaspub.epa.gov/apex/pesticides/f?p=chemicalsearch:1>
3. The data requirements for storage stability and corrosion characteristics (Guidelines 830.6317 and 830.6320) are not satisfied. A one year study is required to satisfy these data requirements. You have 18 months from the date of registration to provide these data.
4. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, “EPA Reg. No. 19713-697.”
5. Submit one copy of the final printed label for the record before you release the product for shipment.

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 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) list 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 fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 04/19/2017
- Alternate CSF 1 dated 04/19/2017

If you have any questions, please contact Grant Rowland by phone at 703-347-0254, or via email at [rowland.grant@epa.gov](mailto:rowland.grant@epa.gov).

Enclosure

**ACCEPTED**  
 06/07/2017  
 Under the Federal Insecticide, Fungicide  
 and Rodenticide Act as amended, for the  
 pesticide registered under  
 EPA Reg. No. 19713-697

GROUP 4 HERBICIDE



# Dicamba DMA

Herbicide

For weed control in Corn, Cotton, Sorghum, Small Grains, Pasture, Hay, Rangeland, General Farmstead (Non-cropland), Rights-of-Way, Public Utility and Industrial Areas, Fallow, Sugarcane, Asparagus, Turf and Grass Seed Crops.

**ACTIVE INGREDIENT:**  
 Dimethylamine salt of dicamba (3,6-dichloro-o-anisic acid)\* ..... 49.6%

**OTHER INGREDIENTS:** ..... 50.4%

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

\*This product contains 41.2% 3,6-dichloro-o-anisic acid (Dicamba) or 4 pounds per gallon (480 g/L).

**KEEP OUT OF REACH OF CHILDREN  
 CAUTION**

See **FIRST AID** Below

EPA Reg. No. 19713-XXX  
 EPA Est. No. 19713-XX-XXX

Net Content: \_\_\_\_\_ Gals. ( \_\_\_\_\_ L)

FIRST AID
<p><b>IF SWALLOWED:</b></p> <ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Do not give any liquid to the person.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<p><b>IF ON SKIN OR CLOTHING:</b></p> <ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p><b>IF IN EYES:</b></p> <ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>• Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also call CHEMTREC at 800-424-9300 for medical emergency information.</p>

## PRECAUTIONARY STATEMENTS

### Hazards to Humans and Domestic Animals

**CAUTION:** Harmful if swallowed. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist.

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are made of butyl rubber or nitrile rubber  $\geq$  14 mils.

**All mixers, loaders and applicators and other handlers must wear:** Long-sleeved shirt and long pants, chemical-resistant gloves (except for pilots), and shoes plus socks.

See Engineering Controls for additional requirements and exceptions.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

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

### ENGINEERING CONTROLS

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

Pilots must use cockpits in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)].

## USER SAFETY RECOMMENDATIONS

**Users should:** 1) Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. 2) Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. 3) 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

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

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation. 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.

## 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, greenhouses and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about Personal Protective Equipment (PPE) and Restricted Entry Interval. The requirements in this box only apply to uses of this product that are covered by the WPS.

**Do not enter or allow worker entry into treated areas during the Restricted Entry Interval (REI) of 24 hours.**

PPE required for early entry to treated areas that is permitted under the WPS and that involves contact with anything that has been treated, such as plants, soil or water is: Coveralls worn over short-sleeved shirt and short pants, chemical-resistant footwear plus socks, chemical-resistant gloves made of any waterproof material, chemical-resistant headgear for overhead exposure and protective eyewear.

### **NON-AGRICULTURAL USE REQUIREMENTS**

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

Do not enter or allow others to enter treated areas until sprays have dried.

Before applying this product, read all directions and precautions appearing on this label. Failure to follow all directions, precautions and restrictions may result in unsatisfactory weed control, crop injury or illegal residues.

### **WEED RESISTANCE MANAGEMENT**

#### **GROUP 4 HERBICIDE**

This product is a Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to this product and other Group 4 herbicides. Weed species with acquired resistance to Group 4 may eventually dominate the weed population if Group 4 herbicides are used repeatedly in the same field or in successive years as primary method of control for targeted species. This may result in partial or total loss of control of those species by this product or other Group 4 herbicides.

To delay herbicide resistance, consider:

- Avoiding the consecutive use of this product or other target site of action Group 4 herbicides that have a similar target site of action on the same weed species.
- Using tank mixtures or premixes with herbicides from different target site of action Groups as long as the involved products are all registered for the same use, have different sites of action, and are both effective at the tank mix or prepack rate on the weed(s) of concern.
- Basing herbicide use on a comprehensive IPM program.
- Monitoring treated weed populations for loss of field efficacy.
- Contacting your local extension specialist, certified crop advisors and/or manufacturer for herbicide resistance management and/or integrated weed management recommendations for specific crops and resistant weed biotypes.

### **USE INFORMATION**

The following directions apply to all uses of this product. Additional precautions and restrictions will be found in each specific use section.

- Do not treat irrigation ditches or water used for crop irrigation or domestic uses.
- Do not apply this product through any type of irrigation system.
- Do not apply more than 1 pound a.e. per acre per application, and no more than 2 applications per year.

### **MIXING AND APPLICATION**

UNLESS OTHERWISE SPECIFIED UNDER THE INDIVIDUAL USE HEADING OF THIS LABEL, THE FOLLOWING DIRECTIONS APPLY TO ALL CROP AND NON-CROP USES OF THIS PRODUCT. REFER TO INDIVIDUAL USE SECTIONS FOR ADDITIONAL PRECAUTIONS, RESTRICTIONS, APPLICATION RATES AND TIMINGS.

This product is a water-soluble formulation that can be applied using water or sprayable fluid fertilizer as the carrier. If a fluid fertilizer is to be used, perform a compatibility test (see the "COMPATIBILITY TEST" section of this label) prior to tank-mixing.

Use ground or aerial application equipment which will give good spray coverage of weed foliage. However, do not use aerial application equipment if spray particles can be carried by wind into areas where sensitive crops or plants are growing or when temperature inversions exist.

Apply 3 to 50 gallons of a diluted spray per treated acre when using ground application equipment or 1 to 10 gallons of a diluted spray per treated acre (2 to 20 gallons of diluted spray per acre for pre-harvest uses) in a water-based

carrier when using aerial application equipment. Use the higher level of the listed spray volumes when treating dense or tall vegetation. Use coarse sprays. Select nozzles designed to produce minimal amounts of fine spray particles. Spray with nozzles as close to the weeds as is practical for good weed coverage.

To avoid uneven spray coverage, this product should not be applied during periods of gusty wind or when wind is in excess of 15 mph.

Avoid disturbing (e.g., cultivating or mowing) treated areas for at least 7 days following application.

### **BEST STEWARDSHIP PRACTICES**

This product provides effective broadleaf weed and brush control when properly applied. Best stewardship practices in all mixing, loading and application operations not only maximize weed control, but also protect ground and surface waters and minimize off-target movement.

This chemical is known to leach through soil into groundwater under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

### **GROUND AND SURFACE WATER PROTECTION**

1. Point source contamination – To prevent point source contamination, do not mix or load this pesticide product within 50 feet of wells (including abandoned wells and drainage wells), sink holes, perennial or intermittent streams and rivers and natural or impounded lakes and reservoirs. Do not apply pesticide product within 50 feet of wells. This setback does not apply to properly capped or plugged abandoned wells and does not apply to impervious pad or properly diked mixing/loading areas as described below.

Mixing, loading, rinsing or washing operations performed within 50 feet of a well are allowed only when conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be on or moved across the pad. The pad must be self-contained to prevent surface water flow over or from the pad. The pad capacity must be maintained at 110% that of the largest pesticide container or application equipment used on the pad and have sufficient capacity to contain all product spills, equipment or container leaks, equipment washwaters and rainwater that may fall on the pad. The containment capacity does not apply to vehicles delivering pesticide shipments to the mixing/loading site. States may have in effect additional requirements regarding well-head setbacks and operational containment.

Care must be taken when using this product to prevent: a) back siphoning into wells, b) spills or c) improper disposal of excess pesticide, spray mixtures or rinsates. Check valves or anti siphoning devices must be used on all mixing equipment.

2. Movement by surface runoff or through soil – Do not apply under conditions which favor runoff. Do not apply to impervious substrates such as paved or highly compacted surfaces in areas with high potential for groundwater contamination. Groundwater contamination may occur in areas where soils are permeable or coarse and groundwater is near the surface. Do not apply to soils classified as *Sand* with less than 3% organic matter and where groundwater depth is shallow. To minimize the possibility of ground water contamination, carefully follow specified application rates as affected by soil type in the “*INFORMATION*” section of this label.

3. Movement by water erosion of treated soil – Do not apply or incorporate this product through any type of irrigation equipment nor by flood or furrow irrigation. Ensure treated areas have received at least 0.5 inch of rainfall (or irrigation) before using tailwater for subsequent irrigation of other fields.

## SENSITIVE CROP PRECAUTIONS

This product may cause injury to desirable trees and plants, particularly Beans, Cotton, Flowers, Fruit trees, Grapes, Ornamentals, Peas, Potatoes, Soybeans, Sunflowers, Tobacco, Tomatoes and other broadleaf plants when contacting their roots, stems or foliage. These plants are most sensitive to this product during their development or growing stage. Follow the precautions listed below when using this product.

- Do not treat areas where either possible downward movement into the soil or surface washing may cause contact of this product with the roots of desirable plants such as trees and shrubs.
- Avoid making applications when spray particles may be carried by air currents to areas where sensitive crops and plants are growing, or when temperature inversions exist. Do not spray near sensitive plants if wind is gusty or in excess of 5 mph and moving in the direction of adjacent sensitive crops. Leave an adequate buffer zone between area to be treated and sensitive plants. Coarse sprays are less likely to drift out of the target area than fine sprays.
- Use coarse sprays to avoid potential herbicide drift. Select nozzles which are designed to produce minimal amounts of fine spray particles. Examples of nozzles designed to produce coarse spray via ground applications are Delavan Raindrops, Spraying Systems XR flat fans or large capacity flood nozzles such as D10, TK10 or greater capacity tips. Keep the spray pressure at or below 20 psi and the spray volume at or above 20 gallons per acre, unless otherwise required by the manufacturer of drift-reducing nozzles. Consult with your spray nozzle supplier concerning the choice of drift-reducing nozzles.
- Agriculturally approved drift-reducing additives may be used.
- Do not apply this product adjacent to sensitive crops when the temperature on the day of application is expected to exceed 85°F, as drift is more likely to occur.
- To avoid injury to desirable plants, equipment used to apply this product should be thoroughly cleaned (see *"PROCEDURE FOR CLEANING SPRAY EQUIPMENT"* section of this label) before reusing to apply any other chemicals.

All crop uses of this product are intended for a normal growing interval between planting and harvest. No crop rotation restrictions exist if normal harvest of treated crop has occurred. If this interval is shortened, such as in cover crop that will be plowed under, do not follow up with the planting of a sensitive crop.

Crops growing under stress conditions such as drought, poor fertility or foliar damage due to hail, wind or insects, can exhibit various injury symptoms that may be more pronounced if herbicides are applied.

Consult your local or state authorities for possible application restrictions and advice concerning these and other special local use situations. TANK-MIX DIRECTIONS ARE FOR USE ONLY IN STATES WHERE THE TANK-MIX PRODUCT AND APPLICATION SITE ARE REGISTERED.

## BAND TREATMENTS

This product may be applied as a band treatment. Use the formula below to determine the appropriate rate and volume per acre.

Band width in inches

Row width in inches × Broadcast RATE per treated acre = Band RATE per treated acre

Band width in inches

Row width in inches × Broadcast VOLUME per treated acre = Band VOLUME per treated acre

### COMPATIBILITY TEST

Before mixing in the spray tank, it is advisable to test compatibility by mixing all components in a small container in proportionate quantities (see following table).

<b>Amount of Herbicide to Add to One Pint of Spray Carrier (Assuming Volume is 25 Gallons per Acre)</b>		
<b>Herbicide Formulations</b>	<b>Rate Per Acre</b>	<b>Level Teaspoons</b>
Dry	1 lb.	1.5
Liquid	1 pt.	0.5

If herbicide(s) do not ball up or form flakes, sludge, gels, oily films or layers or other precipitates, then the tested spray mix is compatible. Usually, incompatibility in any of the above described forms will occur within 5 minutes after mixing.

If components are incompatible, the use of a compatibility agent is needed. Re-run the above compatibility test with a suitable compatibility agent (0.25 teaspoon is equivalent to 2 pints per 100 gallons of fluid fertilizer).

### PROCEDURE FOR CLEANING SPRAY EQUIPMENT

The steps listed below are suggested for thorough cleaning of spray equipment following applications of this product or tank-mixes of this product or tank-mixes of this product plus 2,4-D amine.

1. Hose down thoroughly the inside as well as outside surfaces of equipment while filling the spray tank half full of water. Flush by operating sprayer until the system is purged of the rinse water.
2. Fill tank with water while adding 1 quart of household ammonia for every 25 gallons of water. Operate the pump to circulate the ammonia solution through the sprayer system for 15 to 20 minutes and discharge a small amount of the ammonia solution through the boom and nozzles. Let the solution stand for several hours, preferably overnight.
3. Flush the solution out of the spray tank through the boom.
4. Remove the nozzles and screens and flush the system with two full tanks of water.

The steps listed below are suggested for thorough cleaning of spray equipment used to apply this product as a tank-mix with wettable powders (WP), emulsifiable concentrates (EC) or other types of water-dispersible formulations. This product tank-mixed with water-dispersible formulations requires the use of a water/detergent rinse.

5. Complete Step 1.
6. Fill tank with water while adding 2 pounds of detergent for every 40 gallons of water. Operate the pump to circulate the detergent solution through the sprayer system for 2 to 10 minutes and discharge a small amount of the solution through the boom and nozzles. Let the solution stand for several hours, preferably overnight.
7. Flush the detergent solution out of the spray tank through the boom.
8. Repeat Step 1, and follow with Steps 2, 3 and 4.



## WEED LIST

This is a list of weeds which may be treated with this product in accordance with this label as specified under the rates and timing sections of the individual use headings. Proper usage of this product will give control or growth suppression of many annual, biennial and perennial broadleaf weeds and many woody brush and vine species, including:

ANNUALS	
Amaranth, Spiny (Spiny Pigweed)	Nightshade, Black
Aster, Slender	Pennycress, Field (Fanweed, Frenchweed, Stinkweed)
Bedstraw	Pepperweed, Virginia (Peppergrass)
Beggarweed, Florida	Pigweed, Prostrate
Broomweed, Common	Pigweed, Redroot (Carelessweed)
Buckwheat, Wild	Pigweed, Rough
Buffalobur	Pigweed, Smooth
Burclover, California	Pigweed (Triazine resistant)
Burcucumber	Pigweed, Tumble
Buttercup, Roughseed	Poorjoe
Carpetweed	Puncturevine
Catchfly, Nightflowering	Purslane, Common
Chamomile, Corn	Pusley, Florida
Chickweed, Common	Radish, Wild
Clovers (Annual)	Ragweed, Common
Cockle, Corn	Ragweed, Giant (Buffaloweed)
Cockle, Cow	Ragweed, Lance-leaf
Cocklebur, Common	Rubberweed, Bitter (Bitterweed)
Croton, Tropic	Sesbania, Hemp
Croton, Woolly	Shepherdspurse
Daisy, English	Sicklepod
Evening primrose, Cutleaf	Sida, Prickly (Teaweed)
Fleabane, Annual	Smartweed, Green
Goosefoot, Nettleleaf	Smartweed, Pennsylvania
Henbit	Sneezeweed, Bitter
Jimsonweed	Sowthistle, Annual
Knotweed	Sowthistle, Spiny
Kochia	Spikeweed, Common
Ladysthumb	Spurge, Prostrate
Lambsquarters, Common	Spurry, Corn
Lambsquarters (Triazine resistant)	Starbur, Bristly
Lettuce, Prickly	Sumpweed, Rough
Mallow, Common	Sunflower, Common (Wild)
Mallow, Venice	Sunflower, Volunteer
Marestail (Horseweed)	Thistle, Russian
Mayweed	Velvetleaf
Morningglory, Ivyleaf	Waterhemp
Morningglory, Tall	Waterprimrose, Winged
Mustard, Tansy	Wormwood, Annual
Mustard, Wild	
Mustard, Yellowtops	

<b>BIENNIALS</b>	
Burdock, Common Carrot, Wild (Queen Anne's Lace) Cockle, White Evening primrose, Common Geranium, Carolina Gromwell Knapweed, Diffuse Knapweed, Spotted Mallow, Dwarf	Plantain, Bracted Ragwort, Tansy Starthistle, Yellow Sweetclover Teasel Thistle, Bull Thistle, Milk Thistle, Musk Thistle, Plumeless

<b>PERENNIALS</b>	
Alfalfa* Artichoke, Jerusalem Aster, Spiny Aster, Whiteheath Bedstraw, Smooth Bindweed, Field Bindweed, Hedge Blueweed, Texas Bursage (Bur Ragweed) (Lakeweed) (Povertyweed)* Bursage, Woollyleaf (Lakeweed) Buttercup, Tall Campion, Bladder Chickweed, Field Chickweed (Mouseear, Canada) Chicory Clover, Hop* Dandelion, Common* Dock, Broadleaf (Bitterdock)* Dock, Curly* Dogbane, Hemp Dogfennel (Cypressweed)* Fern, Bracken Garlic, Wild Goldenrod, Canada Goldenrod, Missouri Goldenweed, Common Hawkweed Henbane, Black Horsenettle, Carolina Ironweed Knapweed, Black Knapweed, Russian Milkweed, Climbing	Milkweed, Common Milkweed, Honeyvine Milkweed, Western Whorled Nettle, Stinging Nightshade, Silverleaf (White Horsenettle) Onion, Wild Plantain, Broadleaf* Plantain, Buckhorn Pokeweed Ragweed, Western Redvine Sericia Lespedeza Smartweed, Swamp Snakeweed, Broom Sorrel, Red (Sheep Sorrel)* Sowthistle Sowthistle, Perennial Spurge, Leafy Sundrop, Halfshrub (Evening Primrose) Thistle, Canada Toadflex, Dalmation Tropical Soda Apple Trumpet creeper (Buckvine) Vetch Waterhemlock Waterprimrose, Creeping Woodsorrel, Creeping Common Yellow* Wormwood, Common Wormwood, Louisiana Yankeeweed* Yarrow, Common

\* These perennials may be controlled using this product at rates lower than those specified for other listed perennial weeds. (See "APPLICATION RATES AND TIMINGS" sections.)

<b>WOODY SPECIES</b>	
Alder	Locust, Black
Ash	Maple
Aspen	Mesquite
Basswood	Oak
Beech	Oak, Poison
Birch	Olive, Russian
Blackberry*	Persimmon, Eastern
Blackgum*	Pine
Cedar*	Plum, Sand (Wild Plum)*
Cherry	Poplar
Chinquapin	Rabbitbrush
Cottonwood	Redcedar, Eastern*
Creosotebush*	Rose McCartney*
Cucumbertree	Rose Multiflora*
Dewberry*	Sagebrush, Fringe
Dogwood*	Sassafras
Elm	Serviceberry
Grape	Spicebush
Hawthorn (Thornapple)*	Spruce
Hemlock	Sumac
Hickory	Sweetgum*
Honeylocust	Sycamore
Honeysuckle	Tarbush
Hornbeam	Willow
Huckleberry	Witchhazel
Huisache	Yaupon*
Ivy, Poison	Yucca*
Kudzu	
* Growth suppression	

## CORN (FIELD, POP\*, SEED\*, SILAGE)

Observe all precautions and restrictions. Read and follow mixing, application and cleaning instructions on this label, as well as the following:

\*DO NOT apply this product to Popcorn or Seed corn without first verifying with your local Seed corn company (supplier) the selectivity of this product on your inbred line or variety of Popcorn. This precaution will help avoid potential injury of sensitive varieties.

This product is not registered for use on Sweet corn.

Direct contact of this product with Corn seed must be avoided. If Corn seeds are less than 1.5 inches below the surface, delay application until Corn has emerged.

Up to 2 applications of this product may be made during a growing season. Do not exceed a total of 1.5 pints (0.75 lb. a.e.) of this product per treated acre per crop year. Allow two weeks or more between applications of this product.

See appropriate section for rate information. For combination options or sequential treatments, refer to appropriate section.

Applications of this product to Corn during periods of rapid growth may result in temporary leaning. Corn will usually become erect within 3 to 7 days. Delay cultivation until after Corn is growing normally to avoid breakage. Agriculturally approved surfactants or sprayable fertilizer (0.5 to 1 gallon per acre of 28%, 30%, 32% urea Ammonium nitrate or 2.5 pounds per acre spray-grade Ammonium sulfate\*) may be added to the spray mixture to improve post-emergence weed control, particularly in dry growing conditions. Do not use adjuvants containing penetrants such as petroleum-based oils after crop emergence or crop injury may result.

Corn may be harvested or grazed for feed once the crop has reached the ensilage (milk) stage or later in maturity.

Several synthetic Pyrethroid insecticides are labeled for tank-mix applications with this product. Refer to their label for specific directions.

\*Not for use in California

### **WEEDS CONTROLLED**

This product will control many annual broadleaf weeds or give growth suppression of many perennial broadleaf weeds commonly found in Corn. (Refer to the "WEED LIST".)

For best performance, make application when weeds have emerged and are actively growing.

Pre-emergence control of Cocklebur, Jimsonweed and Velvetleaf may be reduced if conditions such as low temperature or lack of soil moisture cause delayed or deep germination of weeds.

### **PRE-PLANT/PRE-EMERGENCE IN NO-TILLAGE CORN**

Applications of this product may be made before, during or after planting to emerged and actively growing broadleaf weeds. Apply this product at 1 pint per treated acre on medium or fine textured soils containing 2% or greater organic matter. Use 0.5 pint per treated acre on coarse textured soils (*Sand, Sandy loam and Loamy sand*) or medium and fine textured soils with less than 2% organic matter.

When planting into a legume sod (e.g., Alfalfa or Clover), apply this product after 4 to 6 inches of regrowth has occurred.

### **PRE-EMERGENCE IN CONVENTIONAL OR REDUCED TILLAGE CORN**

This product may be applied after planting and prior to Corn emergence. Application at 1 pint per treated acre may be made to medium or fine textured soils which contain 2% or greater organic matter. Do not apply to coarse textured soil (*Sand, Sandy loam and Loamy sand*) until after crop emergence (see "EARLY POST-EMERGENCE" uses below).

Pre-emergence application of this product does not require mechanical incorporation to become active. Perform a shallow mechanical incorporation if application is not followed by adequate rainfall or sprinkler irrigation. Avoid tillage equipment (e.g., drags, harrows) which concentrate treated soil over seed furrow.

### **EARLY POST-EMERGENCE (ALL TILLAGE SYSTEMS)**

#### **Spike Through 8 Inch Tall Corn**

This product at 1 pint per treated acre may be applied during the period from Corn emergence through the 5 leaf stage or 8 inches tall, whichever comes first. Reduce the rate to 0.5 pint per treated acre if Corn is growing on coarse textured soils (*Sand, Sandy loam and Loamy sand*). See late post-emergence application rates below if the 6th true leaf is emerging from whorl, or Corn is greater than 8 inches tall.

## LATE POST-EMERGENCE (ALL TILLAGE SYSTEMS)

### 8 to 36 Inch Tall Corn

Application of this product at 0.5 pint per treated acre may be made from 8 to 36 inch tall Corn or 15 days before tassel emergence, whichever comes first. For best performance, make applications when weeds are less than 3 inches tall.

Make directed spray application when: 1) Corn leaves prevent proper spray coverage; 2) sensitive crops are growing nearby; 3) tank-mixing with 2,4-D.

Do not apply this product when Soybeans are growing nearby if any of these conditions exist:

- Corn is more than 24 inches tall
- Soybeans are more than 10 inches tall
- Soybeans have begun to bloom

## OVERLAY (SEQUENTIAL) TREATMENTS

This product may be applied to ground previously treated with one or more of the following herbicides:

Active Ingredient(s)	Product
Acetochlor	Surpass <sup>®</sup> , Harness <sup>®</sup>
Alachlor	Lasso <sup>®</sup>
Alachlor + Atrazine	Bullet <sup>®</sup> , Lariat <sup>®</sup>
Atrazine	Atra-5 <sup>®</sup> , Atrazine 4L or 90DF, Aatrex <sup>®</sup>
Atrazine + Metolachlor	Trizmet <sup>®</sup> , Bicep II Magnum <sup>®</sup>
Atrazine + Dicamba	Marksman <sup>®</sup>
Butylate	Sutan <sup>®</sup>
Dicamba	Dicamba DGA <sup>™</sup> , Clarity <sup>®</sup>
Dimethenamid	Frontier <sup>®</sup>
Dimethenamid-p + Atrazine	Guardsman <sup>®</sup>
EPTC	Eradicane <sup>®</sup>
Glyphosate	Imitator <sup>®</sup> , Roundup <sup>®</sup>
Halosulfuron	Permit <sup>®</sup>
Metolachlor	Me-Too-Lachlor <sup>™</sup> II , Dual II Magnum <sup>®</sup>
Paraquat	Quik-Quat <sup>®</sup> , Gramoxone <sup>®</sup>
Pendimethalin	Prowl <sup>®</sup>
Simazine	Simazine 4L or 90DF, Princep <sup>®</sup>

Apply this product at 0.5 pint per treated acre to ground previously treated with full rates of Dicamba and Atrazine + Dicamba (e.g., Marksman) herbicides. Total Dicamba a.e. applied from all sources must not exceed 1.0 pound per acre. Allow at least 2 weeks between applications. No more than 2 total applications of Dicamba from any source may be made per acre per year.

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 TREATMENTS FOR CORN

This product may be tank-mixed with one or more of, but not limited to the following herbicides for control of grasses or additional broadleaf weeds in Corn. 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.

Active Ingredient	Product
Acetochlor	Harness <sup>®</sup> , Surpass <sup>®</sup>
Alachlor	Lasso <sup>®</sup>
Atrazine	Atra-5 <sup>®</sup> , Atrazine 4L, 90DF, Aatrex <sup>®</sup>
Clopyrialid	Stinger <sup>®</sup>
Dimethenamid	Frontier <sup>®</sup>
2,4-D	De-Amine <sup>®</sup> , De-Ester <sup>®</sup>
Glyphosate	Imitator <sup>®</sup> , RoundUp <sup>®</sup>
Paraquat	Quik-Quat <sup>®</sup> , Gramoxone <sup>®</sup>
Pendimethalin	Prowl <sup>®</sup>
Primisulfuron	Beacon <sup>®</sup>
Pyridate	Tough <sup>®</sup>
Simazine	Simazine 4L, 90DF, Princep <sup>®</sup>

### COTTON (EXCEPT CA)

**Pre-plant Application:** Apply up to 8 fluid ounces of this product per acre as broadcast or spot treatment to emerged and actively growing weeds prior to planting Cotton. For best performance, apply this product when weeds are in the 2 to 4 leaf stage and rosettes are less than 2 inches across.

Do not plant Cotton for at least 21 days after application and after allowing for a minimum accumulation of 1 inch of rainfall or overhead irrigation. Do not apply to Cotton west of the Rockies or to geographic areas with average annual rainfall of less than 25 inches.

If applying a Spring pre-plant treatment following application of a Fall pre-plant (post-harvest) treatment, the combination of both treatments may not exceed 4 pints of this product (2 lbs. a.e.) per acre per year.

### TANK-MIX TREATMENTS

For control of grasses or additional broadleaf weeds, this product may be tank-mixed with Glyphosate (e.g., Imitator, Roundup), Paraquat (e.g., Quik-Quat, Gramoxone) and Prometryn (e.g., Caparol<sup>®</sup>).

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.

### TRITICALE (FALL AND SPRING SEEDED) (EXCEPT CA)

#### EARLY SEASON APPLICATIONS

Apply 2 to 4 fluid ounces of this product to Triticale.

Make early season applications to Fall-seeded Triticale prior to jointing stage. Make early season applications to Spring-seeded Triticale before crop reaches the 6 leaf stage.

## **TANK-MIXES**

For best results, use this product in tank-mixture with Bromoxynil (e.g., Buctril®).

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.

## **SORGHUM (MILO)**

Observe all precautions and restrictions on this label including the reference to crops growing under stress.

Read and follow mixing, application and cleaning instructions on this label.

Applications of this product to Sorghum during periods of rapid growth may result in temporary leaning of plants or rolling of leaves. These effects are usually outgrown within 10 to 14 days.

Do not graze or feed treated Sorghum forage or silage prior to mature Grain stage.

**Pre-harvest Interval (PHI) Restrictions are as follows:** Grain sorghum—30 days; Fodder—30 days; Forage—20 days.

If Sorghum is grown for pasture or hay, refer to the "PASTURE, HAY, RANGELAND AND FARMSTEAD (NON-CROPLAND)" section of this label. Do not apply this product to Sorghum grown for seed production.

Make no more than one application per growing season.

## **WEEDS CONTROLLED**

This product, when applied at the specified rate for Sorghum, will control many actively growing annual broadleaf weeds and will reduce competition from established perennial broadleaf weeds as well as control their seedlings. (Refer to the "WEED LIST" section.)

## **RATES AND TIMINGS**

This product may be applied to emerged and actively growing weeds at least 15 days prior to planting. Make post-emergence application of this product after Sorghum is in the spike stage (all Sorghum emerged) but before Sorghum is 15 inches tall. For best performance, apply when Sorghum is in the 3 to 5 leaf stage and weeds are small (less than 3 inches tall). Use drop pipes (drop nozzles) if Sorghum is taller than 8 inches. Keeping the spray off the Sorghum leaves and out of the whorl will reduce the likelihood of crop injury and improve spray coverage of weed foliage.

**Broadcast Rate Per Treated Acre:** 0.5 pint (0.25 lb. a.e.)

## **TANK-MIX TREATMENTS**

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 plus Atrazine**

For improved control of emerged, actively growing broadleaf weeds including triazine resistant species and added suppression of perennial broadleaf weeds, tank-mix 0.5 pint of this product with 0.5 to 1.25 lbs. a.i. Atrazine per treated acre. For control of grasses (less than 1.5 inches tall), tank-mix 0.5 pint of this product with 2 pounds a.i. Atrazine per treated acre. For best performance and minimal crop injury, make application when Sorghum is 3 to 8 inches and when broadleaf weeds are small (less than 6 inches tall). Apply Atrazine before Sorghum is beyond 12 inches in height.

The Atrazine rate will depend upon soil texture and length of residual weed control desired. Follow all State and Federal restrictions pertaining to Atrazine applications.

**This Product plus Bromoxynil (e.g., Buctril)**

For improved control of broadleaf weeds, tank-mix 0.5 pint of this product with 1.5 pints of Buctril (bromoxynil) per treated acre. Make application at 4 leaf to 15 inch tall Sorghum. Use drop nozzles to direct spray beneath Sorghum leaves when Sorghum is greater than 8 inches in height.

**OVERLAY (SEQUENTIAL) TREATMENTS**

This product may be applied to ground previously treated with one or more of the following herbicides:

Herbicide	Maximum Rate Per Treated Acre (Lbs. a.i.)
Alachlor (e.g., Lasso) (Screen® treated seed)	4.0
Atrazine* (e.g., Atrazine 4L or 90DF)	2.5
Metolachlor (e.g., Me-Too-Lachlor II, Dual II Magnum) (Concep® treated seed)	1.6
Propachlor (e.g., Ramrod®)	5.0
* Maximum use rate for Atrazine is determined by soil type, tillage practices used, surface residue and state or local restrictions. Follow the more restrictive requirements when determining the maximum use rate for Atrazine.	

**PRE-HARVEST USES (OK & TX Only)**

This product may be applied for weed suppression any time after the Sorghum has reached the soft dough stage. An agriculturally approved surfactant may be used to improve performance. For aerial applications, use at least 2 gallons of water-based carrier per treated acre.

Delay harvest until 30 days after treatment.

**Broadcast Rate Per Treated Acre:** 0.5 pint (0.25 lb. a.e.)

**SMALL GRAINS (BARLEY, OATS AND WHEAT) NOT UNDERSEEDED TO LEGUMES**

Observe all precautions and restrictions. Read and follow mixing, application and cleaning instructions on this label.

**PRE-HARVEST INTERVAL (PHI) Restriction:** for Grain is 7 days.

If Small grains are used for pasture hay, the following restrictions apply:

- Animals cannot be removed from treated area for slaughter prior to 30 days after last application.
- There is no waiting period between treatment and grazing for non-lactating dairy animals.
- Treated areas may not be grazed by lactating dairy animals before 7 days after treatment.
- Do not harvest hay from treated areas before 37 days after treatment.

**WEEDS CONTROLLED**

This product or combinations with listed tank-mix partners, will provide control or suppression of annual broadleaf weeds listed below. For improved control of listed weeds, this product may be applied in a tank-mix with other herbicides. Refer to specific tank-mix options.

Alkanet*	Mustard, Tansy
Bedstraw, Catchweed*	Mustard, Treacle*
Bindweed, Field**	Mustard, Tumble (Jim Hill)*
Buckwheat, Tartary	Mustard, Wild*



Buckwheat, Wild Carpetweed* Chamomile, Corn Chervil, Bur* Chickweed, Common* Cockle, Corn Cockle, Cow Cocklebur, Common Cornflower (Bachelorbutton)* Dandelion, Common** Dock, Curly** Dragonhead, American* Evening Primrose, Cutleaf* Falseflax, Smallseeded* Fiddleneck (Tarweed)* Flixweed* Fumitory* Gromwell, Corn* Groundsel, Common* Hempnettle* Henbit Jacobs Ladder* Knawel (German Moss) Knotweed, Prostrate Kochia Ladysthumb Lambsquarters, Common Lettuce, Miners* Lettuce, Prickly Mallow, Common Mayweed, Chamomile (Dogfennel)* Mustard, Blue (Purple)*	Nightshade, Black Nightshade, Cutleaf* Nightshade, Silverleaf (White Horsenettle)** Pennycress, Field (Fanweed, Frenchweed, Stinkweed) Pepperweed, Peppergrass* Pigweed, Redroot (Carelessweed) Pigweed, Rough Pigweed, Tumble Pineappleweed* Plantain, Broadleaf ** Poppy, Red Horned* Puncturevine* Purslane, Common* Radish, Wild* Ragweed, Common* Ragweed, Giant (Buffaloweed)* Rocket, London* Rocket, Yellow* Salsify (Goatsbeard)* Sherpherdspurse* Smartweed, Green Smartweed, Pennsylvania Sorrel, Red (Sheep Sorrel)* Sowthistle, Annual Starthistle, Yellow* Sunflower, Common (Wild) Thistle, Canada ** Thistle, Russian Yarrow, Common** Velvetleaf Vetch*
* These weeds will be controlled with tank-mixtures of this product. Refer to tank-mix label for specific weeds controlled. **Tank-mixes of this product will provide suppression of established broadleaf weeds and control of their seedlings.	

#### RATES AND TIMINGS

Application of this product may be made before, during or after planting Small grains. For best performance, apply when weeds are in the 2 to 3 leaf stage and rosettes are less than 2 inches across. Application of this product to Small grains during period of rapid growth may result in crop leaning. This condition is temporary and will not reduce crop yields.

Use this product at 2 to 4 fluid ounces per treated acre in Wheat, Fall seeded Barley and Oats, and at 2 to 3 fluid ounces per treated acre in Spring seeded Barley. Use the higher level of listed rate ranges when treating difficult-to-control weeds such as Cow cockle, Kochia, Prickly lettuce, Prostate knotweed, Russian thistle and Wild buckwheat or when dense vegetative growth occurs.

This product used in a tank-mix with other herbicides offers best spectrum of weed control and herbicide tolerant or resistant weed management. Refer to specific crop for rate and application timing of this product.

For applications prior to the emergence of weeds or when Sulfonylurea-resistant weeds are present or suspected, use a minimum of 3 fluid ounces per treated acre of this product with a tank-mix herbicide. Non-sulfonylurea herbicides such as 2,4-D or MCPA tank-mixed with this product will offer more consistent control of Sulfonylurea-resistant weeds.

When tank-mixing with Sulfonylurea herbicides, such as Ally®, Amber®, Express®, Finesse®, Glean® and Harmony® Extra, use an agriculturally approved surfactant of at least 80% active ingredient at the rate of 1 to 4 pints per 100 gallons of spray or not more than 0.25 to 0.5% by volume. Use the highest rate of surfactant when using the lower rate ranges of the tank-mix and/or when treating more mature and difficult-to-control weeds or dense vegetative growth.

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.

### FALL AND SPRING SEEDED WHEAT

APPLY THIS PRODUCT TO FALL SEEDED WHEAT PRIOR TO THE JOINTING STAGE. APPLY THIS PRODUCT TO SPRING SEEDED WHEAT BEFORE WHEAT EXCEEDS THE 5 LEAF STAGE.

### TANK-MIX TREATMENTS

This product may be tank-mixed with one or more of, but not limited to the following herbicides.

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.

### Broadcast Rate per Treated Acre

<sup>1</sup>Apply 2 to 4 fluid ounces of this product with:

Active Ingredient	Product
Bromoxynil	Buctril®
Bromoxynil + MCPA	Bronate®
Chlorsulfuron	Glean®
Chlorsulfuron + Metsulfuron methyl	Finesse®
Clorpyralid	Stinger®
Clopyralid + 2,4-D	Curtail®
2,4-D	2,4-D Amine or Ester
Diuron <sup>2</sup>	Diuron 80 Herbicide, Karmex®
Fenoxaprop-ethyl <sup>3</sup>	Puma®
Fenoxaprop-ethyl + MCPA <sup>3</sup>	Dakota®
Fenoxaprop-ethyl + MCPA + 2,4-D <sup>3</sup>	Tiller®
MCPA	MCPA Amine or Ester
Metribuzin <sup>2</sup>	Sencor®
Metsulfuron-methyl	Ally®
Triasulfuron	Amber®
Thifensulfuron + Tribenuron-methyl	Harmony Extra®, Express®

<sup>1</sup>Apply to early developing Wheat varieties such as TAM 107, Madison or Wakefield between early tillering and the jointing stage. Care should be taken in staging these varieties to be certain that the application occurs prior to the jointing stage.

<sup>2</sup>Tank-mixtures for Fall seeded Wheat only.

<sup>3</sup> Use Drexel Dicamba DMA Herbicide only at 2 fluid ounces per acre with this product. Do not use if Wild oats is the target weed. Do not use as a tank-mixture with this product on Durum wheat.

## SPECIAL USE TANK-MIXES FOR SPRING AND FALL SEEDED WHEAT

Apply 3 to 4<sup>1</sup> fluid ounces of this product with:

Active Ingredient	Product <sup>2</sup>
Chlorsulfuron	Glean <sup>®</sup>
Chlorsulfuron + 2,4-D <sup>3</sup>	Glean + 2,4-D Amine or Ester
Chlorsulfuron + Metsulfuron-methyl	Finesse <sup>®</sup>
(Chlorsulfuron + Metsulfuron-methyl) + 2,4-D <sup>3</sup>	Finesse <sup>®</sup> + 2,4-D Amine or Ester
2,4-D or MCPA <sup>4</sup>	2,4-D or MCPA Amine
2,4-D or MCPA <sup>4</sup>	2,4-D or MCPA Ester
Glyphosate <sup>5</sup>	Imitator <sup>®</sup> , Roundup <sup>®</sup>
Metsulfuron-methyl	Ally <sup>®</sup>
Metsulfuron-methyl + 2,4-D <sup>3</sup>	Ally <sup>®</sup> + 2,4-D Amine or Ester
Tribenuron-methyl	Express <sup>®</sup>
Thifensulfuron + Tribenuron-methyl	Express <sup>®</sup>
Thifensulfuron + Tribenuron-methyl	Harmony Extra <sup>®</sup>
(Thifensulfuron + Tribenuron-methyl) + 2,4-D <sup>3</sup>	Express <sup>®</sup> + 2,4-D Amine or Ester
(Thifensulfuron + Tribenuron-methyl) + 2,4-D <sup>3</sup>	Harmony Extra <sup>®</sup> + 2,4-D Amine or Ester
Triasulfuron	Amber <sup>®</sup>
Triasulfuron + 2,4-D <sup>3</sup>	Amber <sup>®</sup> + 2,4-D Amine or Ester

<sup>1</sup> This product may be used at 6 fl. ozs. on Fall seeded Wheat in Western Oregon as a Spring application only. In CO, KS, NM, OK and TX, up to 8 fl. ozs. of this product may be applied on Fall seeded Wheat after it exceeds the 3 leaf stage for suppression of perennial weeds, such as Field bindweed. Applications may be made in the Fall following a frost but before a killing freeze. This product may be tank-mixed with 2,4-D Amine at 8 fl. ozs. after Wheat begins to tiller. Periods of extended stress such as cold and wet weather may enhance the possibility of crop injury. For Fall applications only, do not use if the potential for crop injury is not acceptable.

<sup>2</sup> Do not use low rates of Sulfonylurea herbicides, such as Ally<sup>®</sup>, Amber<sup>®</sup>, Express<sup>®</sup>, Finesse<sup>®</sup>, Glean<sup>®</sup>, Express<sup>®</sup> and Harmony Extra<sup>®</sup> on more mature weeds and/or on dense vegetative growth.

<sup>3</sup> Use for improved control of Fiddleneck, Flixweed, Gromwell, Mayweed and Russian thistle.

<sup>4</sup> For use on Fall seeded Wheat only. Do not use unless potential crop injury will be acceptable.

<sup>5</sup> This product may be applied with Glyphosate (e.g., Imitator, Roundup<sup>®</sup>) as a pre-plant application to Small grains with no waiting period prior to planting. Add 0.5% by volume of an agriculturally approved non-ionic surfactant.

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.

## FALL SEEDED BARLEY

THIS PRODUCT MUST BE APPLIED TO FALL SEEDED BARLEY PRIOR TO THE JOINTING STAGE.

For Spring Barley varieties that are seeded during the Winter months or later, follow the rates and timings given for Spring seeded Barley.

## TANK-MIX TREATMENTS

This product may be tank-mixed with one or more, but not limited to, the following herbicides. 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.

**Broadcast Rate Per Treated Acre**

Apply 2 to 4 fluid ounces of this product with:

Active Ingredient	Product*
Bromoxynil	Buctril®
Bromoxynil + MCPA	Bronate®
Chlorsulfuron	Glean®
Chlorsulfuron + Metsulfuron-methyl	Finesse®
2,4-D	2,4-D Amine or Ester
MCPA	MCPA Amine or Ester
Metribuzin	Sencor®
Metsulfuron-methyl	Ally®
Tribenuron-methyl	Express®
Thifensulfuron + Tribenuron-methyl	Express®
Thifensulfuron + Tribenuron-methyl	Harmony Extra®
Triasulfuron	Amber®
* Do not use low rates of Sulfonylurea herbicides, such as Ally, Amber, Express®, Finesse, Glean, Express and Harmony Extra on more mature weeds and/or on dense vegetative growth.	

**SPRING SEEDED BARLEY**

APPLY THIS PRODUCT BEFORE SPRING SEEDED BARLEY EXCEEDS THE 4 LEAF STAGE.

**TANK-MIX TREATMENTS**

This product may be tank-mixed with one or more of, but not limited to the following herbicides. 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.

**Broadcast Rate Per Treated Acre**

Apply 2 to 3 fluid ounces of this product with:

Active Ingredient	Product*
Bromoxynil	Buctril®
Bromoxynil + MCPA	Bronate®
Chlorsulfuron	Glean®
Chlorsulfuron + Metsulfuron-methyl	Finesse®
MCPA	MCPA Amine or Ester
Metribuzin	Sencor®
Metsulfuron-methyl	Ally®
Triasulfuron	Amber®
Tribenuron-methyl	Express®
Thifensulfuron + Tribenuron-methyl	Harmony Extra®
* Do not use low rates of Sulfonylurea herbicides, such as Ally, Amber, Express, Finesse, Glean, Express and Harmony Extra on more mature weeds and/or on dense vegetative growth.	

## FALL AND SPRING SEEDED OATS

APPLY THIS PRODUCT BEFORE SPRING SEEDED OATS EXCEED THE 5 LEAF STAGE. APPLY THIS PRODUCT TO FALL SEEDED OATS PRIOR TO THE JOINTING STAGE.

## TANK-MIX TREATMENTS

This product may be tank-mixed with one or more, but not limited to the following herbicides. 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.

### Broadcast Rate Per Treated Acre

Apply 2 to 4 fluid ounces of this product with:

Active Ingredient	Product
MCPA	MCPA Amine or Ester

## PRE-HARVEST APPLICATIONS FOR BARLEY AND WHEAT (EXCEPT CA)

This product can be used to control weeds that may interfere with harvest of Fall and Spring seeded Barley and Wheat.

Apply 8 fluid ounces of this product per acre as a broadcast or spot treatment to annual broadleaf weeds when Barley or Wheat is in the hard dough stage and the green color is gone from the nodes (joints) of the stem. For best results, apply this product when weeds are actively growing but before weeds canopy.

A waiting interval of 7 days is required before harvest.

Do not use pre-harvest treated Barley or Wheat for seed unless a germination test is performed on the seed with an acceptable result of 95% or more germination.

For control of additional broadleaf weeds or grasses, this product may be tank-mixed with other herbicides, such as 2,4-D that are labeled for pre-harvest uses in Barley or Wheat. 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.

## SUGARCANE

Observe all precautions and restrictions. Read and follow mixing, application and cleaning instructions on this label.

Consult your local or State authorities for possible application restrictions, especially concerning aerial application and advice concerning special local use situations.

**Pre-harvest Interval (PHI) Restriction:** 87 days.

## WEEDS CONTROLLED

This product, when applied at specified rates, will control many annual, biennial and perennial broadleaf weeds commonly found in Sugarcane. (Refer to the "WEED LIST" section.)

## RATES AND TIMINGS

Application of this product may be made any time after weeds have emerged and are actively growing but before the close-in stage of Sugarcane. Application rates and timings of this product are given below. Use the higher level of the listed rate ranges when treating dense vegetative growth.

Weed Stage and Type	Amount of This Product	Broadcast Rate Per Treated Acre (Lbs. a.e.)
Annual		
Small, actively growing	0.5 to 1 pt.	0.25 to 0.5
Established weed growth	1 to 1.5 pts.	0.5 to 0.75
Biennial	1 to 2 pts.	0.5 to 1
Perennial	2 pts.	1

When possible, direct the spray beneath the Sugarcane canopy in order to minimize the likelihood of crop injury. The use of directed sprays will also aid in maximizing spray coverage of weed foliage.

Retreatments may be made as needed. However, do not exceed a total of 4 pints of this product (2 lbs. a.e.) per treated acre per year. Do not exceed a total of 2 applications of this product per acre per year.

#### TANK-MIX TREATMENTS

This product may be tank-mixed with one or more of, but not limited to, the following herbicides for control of grasses or additional broadleaf weeds. 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.

Active Ingredient	Product
Ametryn	Evik <sup>®</sup>
Asulam	Asulox <sup>®</sup>
Atrazine	Atra-5 <sup>®</sup> , Atrazine 4L or 90DF, Aatrex <sup>®</sup>
2,4-D*	De-Amine <sup>®</sup>
* Application of this product plus 2,4-D tank-mix at the higher listed rate range may result in crop injury.	

#### PASTURE, HAY, RANGELAND AND FARMSTEAD (NON-CROPLAND)

This product can be used on Pasture, Hay, Rangeland, General farmstead (Non-cropland [including fence rows and non-irrigation ditch banks]) for broadleaf weed and brush control. This product may also be applied to non-cropland areas for the control of broadleaf weeds in Noxious Weed Control Programs, districts or areas including broadcast or spot treatment of roadsides and highways, utilities, rail road and pipeline rights-of-way. Noxious weeds must be recognized at the State level but programs may be administered at State, County or other levels.

Observe all precautions and restrictions. Read and follow mixing, application and cleaning instructions on this label.

Uses of this product described in this section also pertain to Small grains (such as Barley, Forage, Oats, Rye, Sorghum, Sudangrass or Wheat) grown for pasture use only.

Newly seeded areas, including Small grains grown for pasture may be severely injured if rates of this product greater than 1 pint per acre are applied.

Established grass crops growing under stress can exhibit various injury symptoms that may be more pronounced if herbicides are applied.

Bentgrass, Buffalograss, Carpetgrass and St. Augustinegrass may be injured at rates exceeding 1 pint of this product (0.5 lb. a.e.) per treated acre. Usually, Colonial bentgrasses are more tolerant than creeping types. Velvetgrasses are most easily injured. Treatments will injure or kill Alfalfa, Clovers, Lespedeza, Wild winter peas, Vetch and other Legumes.

**Pre-harvest Interval (PHI):** Grass forage - 0 days; Grass hay - 7 days.

ANIMALS CANNOT BE REMOVED FROM TREATED AREA FOR SLAUGHTER PRIOR TO 30 DAYS AFTER LAST APPLICATION. THERE IS NO WAITING PERIOD BETWEEN TREATMENT AND GRAZING FOR NON-LACTATING ANIMALS.

**TIMING RESTRICTIONS FOR LACTATING DAIRY ANIMALS FOLLOWING TREATMENT**

<b>This Product (Rate/Treated Acre)</b>	<b>Days Before Grazing</b>	<b>Days Before Hay Harvest</b>
Up to 1 pt. (0.5 lb. a.e.)	7	37
Up to 2 pts. (1 lb. a.e.)	21	51

**MIXING AND APPLICATION**

This product can be applied using water, oil in water emulsions (including invert systems) or sprayable fluid fertilizer as a carrier. If compatibility is not known, perform a compatibility test (see *“COMPATIBILITY TEST”* section) prior to tank-mixing.

To prepare oil-in-water emulsions, half-fill spray tank with water, then add the appropriate amount of emulsifier. With continuous agitation, slowly add the herbicide and then the oil (such as diesel or fuel oil) or a pre-mix of oil plus additional emulsifier to spray tank. Complete filling of spray tank with water. Maintain vigorous agitation during spray operation to prevent oil and water from forming separate layers.

This product may be applied broadcast using either ground or aerial application equipment. When using ground equipment, apply 3 to 600 gallons of diluted spray per treated acre. Volume of spray applied will depend on the height, density and type of weeds or brush being treated and on the type of equipment being used. When using aerial equipment, apply 1 to 40 gallons of diluted spray per treated acre in a water-based carrier.

This product may be applied to individual clumps or small areas (SPOT TREATMENT) of undesirable vegetation using handgun or similar types of application equipment. Apply diluted spray to allow complete wetting (up to runoff) of foliage and stems.

Herbicide adjuvants or other spray additives (emulsifiers, surfactants, wetting agents, drift control agents or penetrants) may be used for wetting, penetration or drift control. Spray additives must be agriculturally approved when used in pasture applications. If spray additives are used, read and follow all use directions and precautions on product label.

**WEEDS CONTROLLED**

This product, when applied at specified rates, will give control of many annual, biennial and perennial broadleaf weeds, and many woody brush and vine species commonly found in pasture, hay, rangeland and farmstead (non-cropland) areas. (Refer to the *“WEED LIST”* section.) Noted (\*) perennial weeds may be controlled with lower rates of either this product or this product plus 2,4-D. See *“RATES AND TIMINGS”* below.

**RATES AND TIMINGS**

Application rates and timing of this product are given below. Use the higher level of the listed rates ranges when treating dense or tall vegetative growth.

Weed Stage and Type	Amount of This Product	Broadcast Rate Per Treated Acre (Lbs. a.e.)*
Annuals Small, actively growing	0.5 to 1 pt.	0.25 to 0.5
Established weed growth	1 to 1.5 pts.	0.5 to 0.75
Biennials <sup>1</sup> Rosette diameter		
Less than 3 inches	0.5 to 1 pt.	0.25 to 0.5
3 inches or more	1 to 2 pts.	0.5 to 1
Bolting	2 pts.	1
Perennials Suppression or Top growth control	1 to 2 pts.	0.5 to 1
Noted (*) perennials	2 pts.	1
Other perennials	2 pts.	1
Woody Brush and Vines Top growth suppression	1 to 2 pts.	0.5 to 1
Top growth control <sup>2</sup>	2 pts.	1
Stems and Stem suppression	2 pts.	1
<sup>1</sup> For best performance, make application when biennial weeds are in the rosette stage. <sup>2</sup> Species noted in "WEED LIST" will require tank-mixtures for adequate control. *Do not apply more than 1 lb. a.e./Ac. of this product per application. Retreatments may be made as needed. However, do not exceed a total of 4 pints of this product (2 lbs. a.e.) per treated acre per year.		

#### TANK-MIX TREATMENTS

This product may be tank-mixed with one or more of, but not limited to the following herbicides for control of grasses, additional broadleaf weeds and woody brush and vines.

Active Ingredient	Product
2,4-D	De-Amine, De-Ester
Glyphosate	Imitator, RoundUp®
Metsulfuron-methyl	Ally®
Paraquat	Quik-Quat, Gramoxone®
Picloram	Tordon®
Triclopyr	Garlon®

Due to the variations that may occur between formulated products and specific use ingredients (e.g., water supplies), if compatibility is not known, perform a compatibility test (see "COMPATIBILITY TEST" section) prior to actual tank-mixing.

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.

#### CUT SURFACE TREE TREATMENTS

This product may be applied as a cut surface treatment to control unwanted trees and to prevent sprouts of cut trees. Use a mix of 1 part of this product with 1 to 3 parts water for application.

Use the lower dilution when treating difficult-to-control species.



### **FRILL OR GIRDLE TREATMENTS**

Make a continuous cut or series of overlapping cuts using an axe to girdle tree trunk. Spray or paint cut surface with this product/water mix.

### **STUMP TREATMENTS**

Spray or paint freshly cut surface with the water mix. The area adjacent to the bark should be thoroughly wet.

For more rapid foliar effects, 2,4-D may be added to this product/water mix.

### **DORMANT APPLICATIONS FOR CONTROL OF MULTIFLORA ROSE**

This product can be applied when plants are dormant as an undiluted spot concentrate directly to the soil or as a LO-OIL basal bark treatment using an oil-water emulsion solution.

**SPOT CONCENTRATE APPLICATION:** Apply this product directly to the soil as close as possible to the root crown but within 6 to 8 inches of the crown. On sloping terrain, apply to the uphill side of the crown. Do not make application when snow or water prevents applying this product directly to the soil. The use rate of this product is dependent on the canopy diameter of the Multiflora Rose. Examples: Use this product at 0.25, 1 or 2.25 fluid ounces, respectively, for 5, 10 or 15 feet canopy diameters. Do not exceed a total of 4 pints of this product per acre per year.

**LO-OIL BASAL APPLICATION:** Apply this to the basal stem region from the ground up to a height of 12 to 18 inches. Spray until runoff, with special emphasis on covering the root crown. For best results, apply when plants are dormant. Do not make application after budbreak or when plants are showing signs of active growth. Do not make application when snow or water prevents applying this product to the ground line. Refer to the *"MIXING AND APPLICATION"* section above for instructions on preparing oil-in-water emulsions. Example for making approximately 2 gallons of a LO-OIL spray solution mixture: Combine 1.5 gallons of water plus 1 ounce of emulsifier plus 1 pint of this product plus 2.5 pints of No. 2 diesel fuel. Adjust amounts of materials used proportionately to the amount of final spray solution desired. Do not exceed 8 gallons of spray solution mix applied per acre per year.

### **CONSERVATION RESERVE PROGRAMS (CRP) ACRE**

This product can be used on both newly-seeded and established grasses grown in Conservation Reserve or Federal Set-Aside Programs.

Observe all precautions and restrictions. Read and follow mixing, application and cleaning instructions on this label.

Treatment of this product will cause injury or may kill Alfalfa, Clovers, Lespedeza, Vetch, Wild winter peas and other legumes.

Agriculturally approved surfactants may be added to the spray mixture to improve post-emergence weed control, particularly in dry growing conditions.

Do not use adjuvants containing penetrants such as petroleum-based oils after grass emergence on newly seeded grasses.

### **NEWLY SEEDED AREAS**

This product may be applied either pre-plant or post-emergence to newly seeded grasses or Small grains such as Barley, Oats, Rye, Sudangrass, Wheat or other Grain species grown as a cover crop. Post-emergence applications may be made after seedling grasses exceed the 3 leaf stage. Rates of this product greater than 1 pint per treated acre may severely injure newly seeded grasses.

**Pre-plant applications:** Injury to new seedlings may occur if intervals between application and grass planting is less than 45 days per pint of this product per treated acre West of the Mississippi River or 20 days per pint East of the Mississippi River.

### ESTABLISHED GRASS STANDS

Established grass stands are perennial grasses planted one or more seasons prior to treatment. Certain species, such as Bentgrass, Buffalograss, Carpetgrass, Smooth brome or St. Augustinegrass may be injured when treated with this product at rates exceeding 1 pint per treated acre.

### WEEDS CONTROLLED

This product when applied at specified rates will control many annual and biennial weeds and provide control and suppression of many perennial weeds (see "WEED LIST" section).

### RATES AND TIMINGS

Application rates and timing of treatment of this product are given below. Use the higher rate of the rate range when vegetation is either dense or tall or when weeds are growing under stressed conditions such as drought or cool temperature.

Weed Type* and Stage	Broadcast Rate Per Treated Acre	
	Amount of This Product (Pts.)	Equivalent Pounds of Dicamba a.e.
Annual Small, actively growing Established weed growth	0.25 to 1 1	0.125 to 0.5 0.5
Biennials** Rosette diameter a) Less than 3 inches b) 3 inches or more c) Bolting biennial	0.5 to 1 1 to 2 2	0.25 to 0.5 0.5 to 1 1
Perennials** Suppression/Control	2	1
* For best results, treat biennial weeds with this product when they are in the rosette stage of growth. Retreatment may be made as needed. However, do not exceed a total of 4 pts. (2 lbs. a.e.) per treated acre per year.		
** Biennial and perennial weeds will require follow-up (sequential) treatments for seedling control and escapes.		

### TANK-MIX TREATMENTS

To control grasses and additional broadleaf weeds, this product may be tank-mixed with other herbicides registered for use in Conservation Reserve Programs (CRP) such as 2,4-D, Glyphosate (e.g., Imitator, Roundup), Metsulfuron (e.g., Ally), Paraquat (e.g., Quik-Quat, Gramoxone) and others.

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.

### ASPARAGUS (CA, OR, WA Only)

Observe all precautions and restrictions. Read and follow mixing, application and cleaning instructions on this label.

If spray contacts emerged spears, crooking (twisting) of some spears may result. If such crooking occurs, discard affected spears.

Do not harvest prior to 24 hours after treatment.

Do not use in the Coachella Valley of California.

Maximum 2 applications per year. Do not exceed a total of 1 pint of this product (0.5 lb. a.e.) per treated acre per crop year.

**RATES AND TIMINGS**

Apply this product to emerged and actively growing weeds in 40 to 60 gallons of diluted spray per treated acre immediately after cutting the field, but at least 24 hours before the next cutting.

Weeds	Rate Per Treated Acre
Mustard, Black Pigweed, Redroot (Carelessweed) Sowthistle, Annual Thistle, Canada* Thistle, Russian	0.5 to 1 pt. (0.25 to 0.5 lb. a.e.)
Bindweed, Field* Chickweed, Common Goosefoot, Nettleleaf Radish, Wild Thistle, Milk	1 pt. (0.5 lb. a.e.)
* This product may be applied in a tank-mixture with either 2,4-D or Glyphosate (e.g., Imitator, Roundup) for improved control of Canada thistle and Field bindweed. 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.	

**TURF AND LAWNS — FOR USE IN FARMSTEAD (NON-CROPLAND) AND SOD FARMS**

Observe all precautions and restrictions. Read and follow mixing, application and cleaning instructions on this label.

To avoid injury to newly seeded grasses, delay application of this product until after the second mowing. Furthermore, application rates in excess of 1 pint (0.5 lb. a.e.) per treated acre may cause noticeable stunting or discoloration of sensitive grass species such as Bentgrass, Buffalograss, Carpetgrass and St. Augustinegrass.

In areas where roots of sensitive plants extend, do not apply in excess of 0.25 pint of this product (0.125 lb. a.e.) per treated acre on coarse textured (*Sandy* type) soils or in excess of 0.5 pint (0.25 lb. a.e.) per treated acre on fine textured (*Clay* type) soils. Do not make repeat applications in these areas for 30 days and until previous applications of this product have been activated in the soil by rain or irrigation.

**WEEDS CONTROLLED**

This product when applied at specified rates will give control of many annual, biennial and noted (\*) perennial broadleaf weeds commonly found in Turf. This product will also give growth suppression of many other listed perennial broadleaf weeds and woody brush and vine species. (Refer to the "WEED LIST" section.)

**MIXING AND APPLICATION**

Apply 30 to 200 gallons of diluted spray per treated acre (6 pts. to 4.25 gals. per 1,000 sq. ft.) depending on density or height of weeds treated and on the type of equipment used.

## RATES AND TIMINGS

Use the higher level of listed rate ranges when treating dense vegetative growth.

Weed Stage and Type	This Product		
	Pints Per Treated Acre	Pounds A.E. Per Treated Acre	Teaspoons Per 1,000 sq. ft.
Annuals			
Small, actively growing	0.5 to 1	0.25 to 0.5	1 to 2.25
Established weed growth	1 to 1.5	0.5 to 0.75	2.25 to 3.25
Biennials, Rosette diameter			
Less than 3 inches	0.5 to 1	0.25 to 0.5	1 to 2.25
3 inches or more	1 to 2	0.5 to 1	2.25 to 4.5
Perennials and Woody brush and Vines	1 to 2	0.5 to 1	2.25 to 4.5

For best performance, apply when weeds have emerged and are actively growing.

Retreatments may be made as needed. However, do not exceed a total of 2 pints of this product (1 lb. a.e.) per treated acre per application. Do not exceed a total of 2 applications of this product per acre year.

## TANK-MIX TREATMENTS

Tank-mix treatments of this product may be made with 2,4-D, MCPA, MCPP or Bromoxynil for control of additional weeds listed on the tank-mix product.

Use the higher level of the listed rate ranges when treating established weeds. Repeat treatments may be made as needed. However, do not exceed 2 pints of this product (1 lb. a.e.) per treated acre during the growing season.

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.

## GRASS SEED CROPS — GRASSES GROWN FOR SEED

(Such as Bermudagrass, Bluegrass, Fescue and Ryegrass)

Observe all precautions and restrictions. Read and follow mixing, application and cleaning instructions on this label.

Refer to the "PASTURE, HAY, RANGELAND AND FARMSTEAD (NON-CROPLAND)" section for grazing and feeding restrictions. The pre-harvest interval (PHI) for Grass forage is 0 days. The PHI for Grass hay is 7 days.

Do not use on Bentgrass unless possible crop injury can be tolerated.

## WEEDS CONTROLLED

This product will provide control or suppression of annual broadleaf weeds listed below. For improved control of listed weeds plus additional weeds, this product may be applied in tank-mixture with other herbicides.

Alfalfa*	Hemlock, Poison
Bedstraw, Catchweed	Knapweed, Russian*
Bindweed, Field	Knawel
Buttercup, Corn	Knotweed, Prostrate
Buttercup, Creeping	Kochia
Buttercup, Western Field	Ladysthumb
Catchfly, Nightflowering	Lambsquarter, Common
Chamomile, Corn	Lettuce, Prickly
Chickweed, Common	Mayweed (Dogfennel)
Chickweed, Mouseear	Ragwort, Tansy
Clover	Sorrel, Red (Sheep Sorrel)
Cockle, White	Sowthistle, Annual
Dock, Broadleaf	Starwort, Little
Dock, Curly	Thistle, Canada*
* Top growth only.	

### RATES AND TIMINGS

Apply 0.5 to 1 pint of this product per treated acre on seedling grass after the crop reaches the 3 to 5 leaf stage. Apply up to 2 pints of this product on well-established perennial grass. Apply before grass seed crop begins to joint. For best performance, make applications when weeds are in the 2 to 4 leaf stage and rosettes are less than 2 inches across. Use the higher level of listed rate ranges when treating more mature weeds or dense vegetative growth.

### TANK-MIX TREATMENTS

For control of grasses or additional broadleaf weeds, this product may be tank-mixed with broadleaf herbicides registered for use in grass seed production.

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.

### Broadcast Rate Per Treated Acre

Apply 0.5 to 2 pints of this product with:

Active Ingredient	Product
Bromoxynil	Buctril
Clopyralid	Stinger
Clopyralid + 2,4-D	Curtail
2,4-D	2,4-D Amine or Ester
Diuron	Diuron 80 Herbicide, Karmex
MCPA	MCPA Amine

### ANNUAL GRASS CONTROL

For suppression of annual grass weeds such as:

Brome, Downy Cheatgrass)	Brome, Ripgut	Fescue, Rattail	Windgrass
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Apply up to 2 pints of this product per treated acre in the Fall or late Summer after harvest and burning of established grass seed crops. Apply immediately following the first irrigation when the soil is moist and before weeds have more than 2 leaves.

## PRE-PLANT DIRECTIONS (POST-HARVEST/FALLOW/CROP STUBBLE/SET-ASIDE) FOR BROADLEAF WEED CONTROL BEFORE CORN, SORGHUM, SOYBEANS AND WHEAT

Observe all precautions and restrictions. Read and follow mixing, application and cleaning instructions on this label.

### WEEDS CONTROLLED

This product may be applied alone or in tank-mix combinations with other herbicides registered for this use.

This product can be applied either post-harvest in the Fall, Spring or Summer, during the fallow period or to crop stubble/set-aside acres.

This product when applied at the specified rates will control many annual broadleaf weeds (see the “WEEDS CONTROLLED” under “SMALL GRAINS (BARLEY, OATS AND WHEAT) NOT UNDERSEEDED TO LEGUMES” section). In addition, this product will control or suppress the following biennial and perennial broadleaf weeds:

Alfalfa*	Nightshade, Silver
Artichoke, Jerusalem	Redvine
Bindweed, Field	Smartweed, Swamp
Bindweed, Hedge	Sowthistle, Perennial*
Blueweed, Texas	Spurge, Leafy
Bursage (Bur ragweed, Povertyweed, Lakeweed) <sup>1</sup>	Thistle, Bull
Dandelion, Common*	Thistle, Canada**
Dock, Curly*	Thistle, Milk
Dogbane, Hemp	Thistle, Musk
Garlic, Wild**	Thistle, Plumeless
Horsenettle, Carolina	Thistle, Scotch
Knapweed, Diffuse	Trumpetcreper (Buckvine)
Knapweed, Spotted	
* These perennials may be controlled using this product at rates lower than those specified for other listed perennial weeds. See “RATES AND TIMINGS” in this section.	
** See the “SPECIAL TANK-MIX TREATMENTS” under this section for specific control program for these weeds.	

### RATES AND TIMINGS

Apply this product as a broadcast or spot treatment to emerged and actively growing weeds after crop harvest (post-harvest) and before a killing frost or in the fallow cropland or crop stubble the following Spring or Summer.

Agriculturally approved spray additives, such as surfactants or oils may be used to enhance spray coverage and the herbicide’s penetration of weed foliage. See “CROPPING RESTRICTIONS” section for specified interval between application and planting to prevent crop injury.

For best performance, make application when annual weeds are less than 6 inches tall, when biennial weeds are in the rosette stage and to perennial weed regrowth in late Summer or Fall following a mowing or tillage treatment. Most effective control of upright perennial broadleaf weeds, such as Canada thistle and Jerusalem artichoke occurs if application is made when the majority of weeds, such as Field bindweed and Hedge bindweed are in or beyond the full bloom stage. Avoid disturbing treated areas following application. Treatments may not kill weeds which develop from seed or underground plant parts, such as rhizomes or bulbets after the effective period for this product.

For seedling control, a follow-up program or other cultural practices could be instituted. For Small grain in-crop uses of this product, see the “RATES AND TIMINGS” under “SMALL GRAINS (BARLEY, OATS AND WHEAT) NOT UNDERSEEDED TO LEGUMES” section for details.

Weed Type	Amount of This Product per Treated Acre (Pts.)
Annuals	0.5 to 1
Biennials	1 to 2
Perennials	
Suppression of perennials	1 to 2
Noted (*) perennials	2
Other perennials	2

Retreatment may be made as needed. However, do not exceed a total of 4 pints of this product (2 lbs. a.e.) per treated acre per year. Do not apply a total of 2 applications of this product per acre per year.

#### TANK-MIX TREATMENTS

This product may be tank-mixed with one or more of, but not limited to the following herbicides for control of grasses or additional broadleaf weeds.

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.

#### Broadcast Rate of this Product per Treated Acre for Annual Weed Control

Apply 0.25 to 1 pint of this product with:

Active Ingredient	Product
Atrazine*	Atra-5, Atrazine 4L, Atrazine 90DF, Aatrex
Chlorsulfuron + Metsulfuron-methyl**	Finesse
2,4-D	2,4-D
Glyphosate	Roundup
Glyphosate + 2,4-D	Imitator + 2,4-D, Landmaster® BW
Glyphosate + Dicamba	Fallow Master®
Metribuzin*	Sencor
Metsulfuron-methyl**	Ally
Paraquat	Quik-Quat, Gramoxone
Pronamide*	Kerb®
Trisulfuron**	Amber

\* Tank-mixes of this product with these products may be subject to special restrictions. See the product label of the tank-mix partner for intended use rates, restrictions and other precautions.

\*\* When tank-mixing with Sulfonylurea herbicides, refer to the product label for rates and restrictions. Use a surfactant of at least 80% active ingredient at the rate of 2 to 4 pts./100 gals. of spray or not more than 0.25 to 0.5% by volume. Use the highest rate of surfactant when using the lower rate ranges of the tank-mix and/or when treating more mature weeds or dense vegetative growth. Sulfonylurea-resistant weeds may not be controlled by tank-mixes of this product and a Sulfonylurea. Refer to this product's tank-mix section for alternative tank-mixes.

**Broadcast Rate of this Product per Treated Acre for Biennial and Perennial Weed Control**

Apply 1 to 2 pints of this product with:

Active Ingredient	Product
Clopyralid + 2,4-D	Curtail
2,4-D	2,4-D
Glyphosate	Imitator, Roundup
Glyphosate + 2,4-D	Landmaster BW
Picloram	Tordon 22K

**SPECIAL TANK-MIX TREATMENTS**

For suppression of perennial weeds, apply this product with Glyphosate (e.g., Imitator, Roundup)

For Wild garlic control, apply 1 pint of this product with 3 pints of 2,4-D LV Ester (4 lbs./gal.) per treated acre. Apply when Wild garlic is 4 to 8 inches tall.

For Canada thistle control, use this product alone, this product plus Clopyralid + 2,4-D (e.g., Curtail) or this product plus Glyphosate (e.g., Imitator, Roundup) tank-mix treatments.

Application may be made during fallow periods for control of Bulbous bluegrass, Common rye, Downy brome, Jointed goatgrass, Volunteer barley and Volunteer wheat when they are actively growing. Use 1 pint of this product with 0.5 to 1 pound of Kerb 50W (pronamide). Fall seeded Wheat may be planted 9 months or more after application. For best performance, make application between mid-October and mid-December prior to soil freeze up.

During fallow periods, apply this product plus Glyphosate + 2,4-D (e.g., Imitator + 2,4-D, Landmaster BW) or Glyphosate + Dicamba (e.g., Fallow Master) to give improved control of Canada thistle, Field bindweed, Kochia, Prickly lettuce and Wild buckwheat. Use 0.125 to 0.25 pint of this product plus labeled rate of Glyphosate + 2,4-D (e.g., Imitator + 2,4-D, Landmaster BW) or Glyphosate + Dicamba (e.g., Fallow Master) for annual weed control or for suppression of perennial weeds.

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.

**CROPPING RESTRICTIONS**

Corn, Sorghum and Soybeans may be planted in the Spring following applications made during the previous year. If less than 1 inch of rainfall occurs between application and first killing frost, cultivate treated areas to allow herbicide to come in contact with moist soil. Cultivation may take place before or immediately after ground thaw.

Soybean injury may occur if the interval between application and planting is less than specified. In areas with greater than 30 inches of rainfall, delay planting for 30 days per pint of this product per treated acre. In areas with less than 30 inches of rainfall, delay planting for 45 days per pint of this product per treated acre. Exclude days when ground is frozen.

Wheat may be planted in the Fall or Spring following applications. Also, spot application may be made any time prior to crop emergence if crop injury can be tolerated in treated areas. Wheat injury may occur if the interval between application and planting is less than specified.

**East of the Mississippi River:** The interval is 20 days per pint of this product per treated acre, or 1.25 days per 1 fluid ounce. Moisture is essential for degradation of this product. Exclude days when ground is frozen.



**West of the Mississippi River:** The interval is 45 days per pint of this product per treated acre or 3 days per 1 fluid ounce. Moisture is essential for degradation of this product. Exclude days when ground is frozen.

Following a normal harvest of Barley, Oats or Wheat, any rotational crop may be planted. If the interval before harvest is shortened, such as when cover crops will be plowed under, do not follow up with the planting of a sensitive crop.

### SUPPRESSION / CONTROL OF PERENNIAL BROADLEAF WEEDS IN CROPLAND (SPOT APPLICATION ONLY) (ID, MT, NV, OR, UT, WA Only)

Observe all precautions and restrictions. Read and follow mixing, application and cleaning instructions on this label.

Do not treat sub-irrigated cropland or areas where the soil remains saturated with water throughout the year.

Make only one application of this product per year.

#### WEEDS CONTROLLED

This product, when applied at specified rates, will control many broadleaf weeds including:

Bindweed, Field Dock, Broadleaf (Bitterdock) Dock, Curly	Knapweed, Black Knapweed, Russian Ragwort, Tansy	Spurge, Leafy Thistle, Canada
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#### RATES AND TIMINGS

This product may be applied at any time following a crop harvest to stubble fallow or other cropland. Apply when weeds are actively growing and prior to a killing frost.

Apply 2 pints (1 lb. a.e.) of this product per treated acre. Application may be made up to one month prior to the planting of Wheat.

Do not use unless injury to Wheat or rotated Barley will be acceptable.

Annual or perennial grass crops, Barley, Corn, Oats, Sorghum (Milo) may be planted into treated areas one year after application. Crops grown for seed (other than perennial grass seed) should not be planted into treated areas until three years after application. Do not plant broadleaf crops such as Alfalfa, Beans, Peas, Potatoes or Sugar beets into treated areas until two years after application.

In most cases, treatments will not kill perennial seedlings which germinate from seed one or two years after treatment. Once the effect of the chemical has been lost, a follow-up program for seedling control or other cultural practices should be instituted.

#### WIPER APPLICATION USES

Observe all precautions and restrictions. Read and follow mixing, application and cleaning instructions on this label.

This product may be applied through wiper application equipment to control or suppress actively growing broadleaf weeds, brush and vines. Use a solution containing 1 part of this product to 1 part water. Do not contact desirable vegetation with herbicide solution.

Make wiper application to crops (including pastures) and non-cropland areas described in this label with the exception of Grain sorghum (Milo).

## RIGHTS-OF-WAY, UTILITY AND INDUSTRIAL AREAS, AND FENCEROWS

Observe all precautions and restrictions. Read and follow the Mixing and Application section.

This product may be used for use on non-crop land areas such as rights-of-way (such as roadways, rest areas, utility, railroad, highway, pipelines and rights-of-way that run through pasture and rangeland); utility facilities (such as substations, pipelines, tank farms, pumping stations, parking and storage areas, fencerows, and non-irrigated ditchbanks); brush control for forest site preparation or maintenance.

### **RIGHTS-OF-WAY**

This product can be used to control many broadleaf weeds on rights-of-way. This use includes applications to roadsides, roadways and highways; areas along utilities such as cable and powerlines; railroad track and embankment; highways, highway medians, bridge abutments, pipelines and rights-of-way that run through pasture and rangeland. Use controlled application techniques that minimize the risk of off-target movement.

### **UTILITY AND INDUSTRIAL AREAS**

This product can be used to control many broadleaf weeds and brush in non-crop areas on or surrounding substations, pipelines, tank farms, pump stations, production facilities and bareground situations. It may also be used on parking and storage areas (see *"BEST STEWARDSHIP PRACTICES"* to avoid direct runoff from impervious surfaces).

### **FENCEROWS**

This product can be used to control many broadleaf weeds and brush in fencerows.

### **MIXING AND APPLICATION**

Refer to the *"MIXING AND APPLICATION"* under *"PASTURE, HAY, RANGELAND AND FARMSTEAD (NON-CROPLAND)"* section for directions.

### **WEEDS AND BRUSH CONTROLLED**

This product applied at specified rates will give control of many annual, biennial and perennial broadleaf weeds, and many woody brush and vine species commonly found in non-crop land areas. (Refer to *"WEED LIST"* section.) Noted (\*) perennial weeds may be controlled with lower rates of either this product or this product in tank -mix combinations. See *"RATES AND TIMINGS"* below.

### **RATES AND TIMINGS**

Application rates and timings of this product are given below. Use the higher level of listed rate ranges when treating dense or tall vegetative growth.

Weed Stage and Type	Amount of This Product	Gallons of Spray Mixture per Acre <sup>1</sup>	Spray Concentration for Low Volume Application <sup>2</sup> (% vol/vol)
Annuals Small, actively growing Established weed growth	0.5 to 1 pt. 1 to 1.5 pts.	25 to 50 50 to 75	3 3
Biennials <sup>3</sup> Rosette diameter Less than 3 inches 3 inches or more Bolting	0.5 to 1 pt. 1 to 2 pts. 2 pts.	25 to 50 50 to 100 100 to 150	3 to 4 3 to 4 3 to 4
Perennials Suppression or Top growth control Noted (*) perennials Other perennials	0.5 to 1 pt. 2 pts. 2 pts.	50 to 100 100 to 200 200	4 4 5
Woody Brush and Vines <sup>4</sup> Top growth suppression Top growth stems and Roots	0.5 to 2 pts. 2 pts.	50 to 200 200	5 5
<sup>1</sup> Assuming typical application rate of 2 pts. of this product per 100 gals. <sup>2</sup> Low volume rates must not exceed 4 pts. of this product per acre per year. (5% vol/vol = 10 gals, maximum solution per acre per year). <sup>3</sup> For best performance, apply when biennial weeds are in the rosette stage. <sup>4</sup> Tank-mixes may be required for optimal control. Refer to "WEED LIST" section.			

Retreatments may be made as needed. However, do not exceed a total of 4 pints (2 lbs. a.e.) of this product per treated acre per year.

#### TANK-MIX TREATMENTS

This product may be tank-mixed with one or more of but not limited to the following herbicides for additional weed control in Rights-of-way, Utility and Industrial Areas and Fencerows.

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.

Active Ingredient	Product
Bromacil	Hyvar®
Chlorsulfuron	Telar®
Clopyralid	Transline®
2,4-D	De-Amine, De-Ester
Diquat	Reward®
Diuron	Diuron 80, Karmex
Fosamine ammonium	Krenite®
Glufosinate	Finale®
Glyphosate	Imitator, Roundup
Hexazinone	Velpar®
Imazapyr	Arsenal®
Imazamethapyr	Plateau®
Metsulfuron-methyl	Escort®
Norflurazon	Predict®

Pendimethalin	Pendulum®
Prodiamine	Endurance®
Simazine	Simazine 4L, Simazine 90DF, Princep
Sulfometuron-methyl	Oust®
Sulfosate	Touchdown®
Tebuthiuron	Spike®
Triclopyr	Garlon, Redeem®

Due to variations that may occur between formulated products and specific use ingredients (e.g., water supplies), if compatibility is not known, perform a compatibility test (see “*COMPATIBILITY TEST*” section) should be carried out prior to actual tank-mixing.

### **STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Store in original container in well-ventilated area separately from fertilizer, feed and foodstuff. Avoid cross-contamination with other pesticides. Spillage or leakage should be contained and absorbed with clay granules, sawdust or equivalent material for disposal.

**PESTICIDE DISPOSAL:** To avoid waste, use all materials in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often, such programs are run by State or local governments or by industry).

**CONTAINER DISPOSAL:**

**Nonrefillable Container (rigid material; less than 5 gallons):** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container 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 one-fourth 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. Dispose of empty container in a sanitary landfill or by incineration or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**Nonrefillable Container (rigid material; greater than 5 gallons up to < 250 gallons):** Non refillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container one-fourth 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. Dispose of empty container in a sanitary landfill or by incineration or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**Refillable Container (≥ 250 gallons & Bulk):** 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 mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

## **WARRANTY—CONDITIONS OF SALE**

OUR DIRECTIONS FOR USE of this product are based upon tests believed reliable. Follow directions carefully. Timing and method of application, weather and crop conditions, mixture with other chemicals not specifically directed and other influencing factors in the use of this product are beyond the control of the Seller. To the extent consistent with applicable laws, Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith. To the extent consistent with applicable laws, in no case shall the Manufacturer or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product when such use and/or handling is not in strict accordance with directions given herewith. The foregoing is a condition of sale by the Seller and is accepted as such by the Buyer.

Manufactured By:



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