

19713-624

04-14-2010

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

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

APR 14 2010

Ms. Luz G. Chan
Product Registration
Drexel Chemical Company
P.O. Box 13327
Memphis, TN 38113-9327

SUBJECT: Application for Pesticide Notification (PRN 98-10)
Request General Label Changes/Advisory Statement & Precautionary Hazard
Language & Various Other Changes
EPA Reg. No. 19713-624
Application Dated March 24, 2010

Dear Registrant:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated 03/24/10 for the above product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action(s) requested fall within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

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

Sincerely,

Rachel C. Holloman

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



United States
Environmental Protection Agency
 Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 19713-624	2. EPA Product Manager Kathryn Montague	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) DREXEL KAM-BA HERBICIDE	PM# PM 23, Herbicide Branch	
5. Name and Address of Applicant (Include ZIP Code) Drexel Chemical Company P.O. Box 13327 Memphis, TN 38113-0327 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input checked="" type="checkbox"/> Final printed labels in response to Agency letter dated <u>March 3, 2010</u>
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

NOTIFICATION
APR 14 2010

Explanation: Use additional page(s) if necessary. (For section I and Section II.)
 Submission of a revised label per EPA SAL dated March 3, 2010 and EPA's e-mail dated March 16, 2010. Details are in the cover letter accompanying this submission.

Section - III

1. Material This Product Will Be Packaged In:			
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Type of Container <input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper Other (Specify) _____
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt No. per container
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 1, 2.5, 5, 10, 15, 30, 55, 265 Gal; Bulk	5. Location of Label Directions <input type="checkbox"/> On the label
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph Paper glued <input type="checkbox"/> Stenciled <input type="checkbox"/> Other _____			

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name LUZ G CHAN	Title REGISTRATION MANAGER	Telephone No. (include Area Code) (901) 774-4370
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		Date Application Received (Stamped)
2. Signature <i>Luza Chan</i> 2010.03.24 16:00:46 -05'00'	3. Title REGISTRATION MANAGER	
4. Typed Name LUZ G CHAN	5. Date March 24, 2010	



Drexel Chemical Company

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March 24, 2010

Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Rm S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202

**Re: Submission of Revised Label per EPA Stamped Accepted Label dated March 3, 2010
and E-mail Communication Dated March 16, 2010
DREXEL KAM-BA HERBICIDE (EPA Reg. No. 19713-624)**

Herewith:

- 1. Completed EPA Form 8570-1
- 2. Two copies of the label (marked and clean copies) (624SP-0310*) with the following revisions according to EPA Stamped Accepted label dated March 3, 2010 and email dated March 16, 2010 (copy is enclosed for your reference):

Page 1:

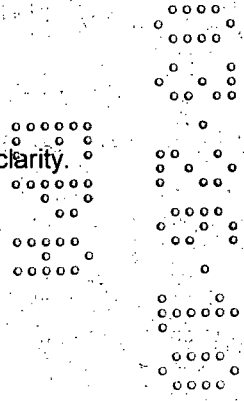
- i) The statement "For weed control in corn.....and grass seed crops." was added above the ingredient statement.
- ii) The EPA Reg. No. was added.
- iii) The signal word was changed to "Caution" and the Spanish statement associated with the Warning signal word was deleted.
- iv) "Note to Physician" was deleted from the First Aid box.
- v) The Hazards to Humans and Domestic Animals was revised and the needed statement under PPE was added.
- v) Engineering Controls Statements were added.
- vi) In the First Aid box, the "If Swallowed" was placed first in the box and "Have a person sip...." was changed to "Do not give any liquid to the person."

Page 2:

- i) In the Agricultural Use Requirements box, the PPE were revised.
- ii) "General Information" was changed to "Product Information"

Page 3:

- i) Under "Compatibility Test" heading, "see following table" was added for clarity.
- ii) "from" was corrected to "form"





Drexel Chemical Company

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Throughout the Label:

- i) Where needed, the rate(s) were revised for the various crops to reflect the maximum single application of 1 lb. a.e. (2 pints of this product) per acre and more than 2 applications per year.
- ii) The retreatment statement was revised.
- iii) The statement was revised to read "Read and follow mixing, application and cleaning instructions...."

Page 9

- i) Under "Pasture, Hay, Rangeland and General Farmstead", the sentence "Furthermore, rates of this product in excess of 2 quarts many grass species." was deleted.
- ii) The 2 quarts rate from the table was deleted.

Page 6

- i) Under Sorghum, the PHI restrictions were added.
- ii) Under Small Grains, the PHI restriction was added.

Page 8

- i) Under Sugarcane, the PHI restriction was added.

Page 10

- i) Under 'Dormant Applications for Control of Multiflora Rose, the 3 pints rate was deleted. Likewise, the 4 pints rate for perennials was deleted. (Note: The EPA letter indicated to delete the 2 pints rate for perennials. I believe EPA meant to delete the 4 pints rate.)

Page 12

- i) The definition of spot application was added beneath the heading "Control of Perennial Broadleaf Weeds in Cropland...."
- ii) The broadcast rate for biennial and perennial weed control was revised from "1 to 4 pints" to "1 to 2 pints".
- iii) Under the heading "Cropping Restrictions", the first paragraph was revised to "The following directions.....up to pints per treated acre."

Page 13

- i) Under 'Rates and Timing', the sentence was revised to read "Apply 2 pts. (1 lb. a.e.).....". We converted "1 quart" to "2 pts." for consistency.
- ii) The typo "tot heir" was corrected to "to their" in the trademark statement.

Per the Agency's e-mail response dated March 16, 2010 to Drexel's e-mails dated March 9 and March 16, 2010 (see attached), the following changes were made:

Throughout the label:

- i) "a.i." reference relating to the rate of the above product was changed to "a.e."

Page 12

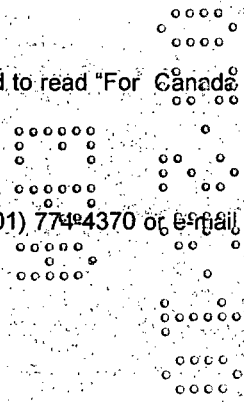
- i) Under the heading "Special Tank Mix Treatments", the third paragraph was revised to read "For Canada thistle control, use this product *alone*, this product plus....."

All the above changes were highlighted for easy reference.

If you have questions/clarification regarding this submission, I can be reached at (901) 774-4370 or e-mail Lchan@drexchem.com. Thank you.

Respectfully yours,
DREXEL CHEMICAL COMPANY

Luz G Chan
Luz G Chan
Registration Manager



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NOTIFICATION

APR 14 2010

KAM-BA

Herbicide

Dicamba Agricultural Herbicide

For Weed Control in Corn, 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)* 49.77%

OTHER INGREDIENTS: 50.23%

TOTAL: 100.00%

*This product contains 41.35% 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. 19713-624

EPA Est. No. 19713-XX-XXX

Net Content: _____

FIRST AID

IF SWALLOWED:

- Call a poison control center or doctor immediately for treatment advice.
- Do not give any liquid to the person.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious or convulsing person.

IF INHALED:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

IF ON SKIN OR CLOTHING:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15 to 20 minutes.
- Call a poison control center or doctor for treatment advice.

IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information on this pesticide product (including health concerns, medical emergencies or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378.

PRECAUTIONARY STATEMENTS

Hazards To Humans and Domestic Animals

CAUTION: Harmful if swallowed.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some material that is chemical-resistant to this product is natural rubber. If you want more options, follow the instructions for category on an EPA chemical-resistance category selection chart.

Applicators and other handlers must wear: Long-sleeved shirt and long pants, chemical-resistant gloves, shoes plus socks, and protective eyewear.

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 STATEMENTS

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 [40CFR 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

Apply this product only as directed on the label.

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.

Manufactured For:

Drexel Chemical Company

P.O. BOX 13327, MEMPHIS, TN 38113-0327

SINCE 1972

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 (REI). The requirements in this box only apply to uses of this product that are covered by the WPS.

Do not enter or allow worker entry into treated areas during the 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-sleeve 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 and precautions may result in unsatisfactory weed control, crop injury, or illegal residues.

PRODUCT 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.

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, a compatibility test (see the "COMPATIBILITY TEST" section of this label) should be made prior to tank mixing.

Ground or aerial application equipment which will give good spray coverage of weed foliage should be used. 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 preharvest 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 move 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 percent that of the largest pesticide container or application equipment used on the pad and have sufficient capacity to contain all product spills, equipment, container leaks, equipment wash waters, 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 wellhead 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 antisiphoning 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 ground water contamination. Ground water contamination may occur in areas where soils are permeable or coarse and ground water is near the surface. Do not apply to soils classified as sand with less than 3 percent organic matter and where ground water depth is shallow. To minimize the possibility of ground water contamination, carefully follow application rate recommendations as affected by soil type in the "GENERAL 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 when 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 gpa, 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.

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- 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 RECOMMENDATIONS 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.

$$\frac{\text{Band width in inches}}{\text{Row width in inches}} \times \text{Broadcast RATE per treated acre} = \text{Band RATE per treated acre}$$

$$\frac{\text{Band width in inches}}{\text{Row width in inches}} \times \text{Broadcast VOLUME per treated acre} = \text{Band VOLUME per treated acre}$$

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).

Amount of Herbicide to Add to One Pint of Spray Carrier (Assuming Volume is 25 Gallons per Acre)		
Herbicide Formulations	Rate Per Acre	Level Teaspoons
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 recommended. 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.

- 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.
- 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.
- Flush the solution out of the spray tank through the boom.
- 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.

- Complete Step 1.
- Fill tank with water while adding 2 lbs. 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.
- Flush the detergent solution out of the spray tank through the boom.
- Repeat Step 1, and follow with Steps 2, 3, and 4.

GENERAL WEED LIST

This is a general 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 headings. Proper usage of this product will give control or good suppression of many Annual, Biennial, Perennial broadleaf, and many Woody brush and vine species, including:

Annuals	
Amaranth, Spiny (Spiny Pigweed)	Nightshade, Black
Aster, Slender	Pennycress, Field
Bedstraw	(Fanweed, Frenchweed, Stinkweed)
Beggarweed, Florida	Pepperweed, Virginia (Peppergrass)
Broomweed, Common	Pigweed, Prostrate
Buckwheat, Wild	Pigweed, Redroot (Carelessweed)
Buffalobur	Pigweed, Rough
Burclover, California	Pigweed, Smooth
Burcucumber	Pigweed (triazine resistant)
Buttercup, Roughseed	Pigweed, Tumble
Carpetweed	Poorjoe
Catchfly, Nightflowering	Puncturevine
Chamomile, Corn	Purslane, Common
Chickweed, Common	Pusley, Florida
Clovers (Annual)	Radish, Wild
Cockle, Corn	Ragweed, Common
Cockle, Cow	Ragweed, Giant (Buffaloweed)
Cocklebur, Common	Ragweed, Lance-leaf
Croton, Tropic	Rubberweed, Bitter (Bitterweed)
Croton, Woolly	Sesbania, Hemp
Daisy, English	Shepherdspurse
Evening primrose, Cutleaf	Sicklepod
Fleabane, Annual	Sida, Prickly (Teaweed)
Goosefoot, Nettleleaf	Smartweed, Green
Henbit	Smartweed, Pennsylvania
Jimsonweed	Sneezeweed, Bitter
Knotweed	Sowthistle, Annual
Kochia	Sowthistle, Spiny
Ladysthumb	Spikeweed, Common
Lambsquarters, Common	Spurge, Prostrate
Lambsquarters (triazine resistant)	Spurry, Corn
Lettuce, Prickly	Starbur, Bristly
Mallow, Common	Sumpweed, Rough
Mallow, Venice	Sunflower, Common (Wild)
Mayweed	Sunflower, Volunteer
Morningglory, Ivyleaf	Thistle, Russian
Morningglory, Tall	Velvetleaf
Mustard, Tansy	Waterhemp
Mustard, Wild	Waterprimrose, Winged
Mustard, Yellowtops	Wormwood, Annual
Biennials	
Burdock, Common	Plantain, Bracted
Carrot, Wild (Queen Anne's Lace)	Ragwort, Tansy
Cockle, White	Starthistle, Yellow
Evening primrose, Common	Sweetclover
Geranium, Carolina	Teasel
Gromwell	Thistle, Bull
Knapweed, Diffuse	Thistle, Milk
Knapweed, Spotted	Thistle, Musk
Mallow, Dwarf	Thistle, Plumeless
Perennials	
*Alfalfa	*Dock, Broadleaf (Bitterdock)
Artichoke, Jerusalem	*Dock, Curly
Aster, Spiny	Dogbane, Hemp
Aster, Whiteheath	*Dogfennel (Cypressweed)
Bedstraw, Smooth	Fern, Bracken
Bindweed, Field	Garlic, Wild
Bindweed, Hedge	Goldenrod, Canada
Blueweed, Texas	Goldenrod, Missouri
*Bursage (Bur Ragweed) (Lakeweed)	Goldenweed, Common
(Povertyweed)	Hawkweed
Bursage, Woollyleaf (Lakeweed)	Horsenettle, Carolina
Buttercup, Tall	Ironweed
Campion, Bladder	Knapweed, Black
Chickweed, Field	Knapweed, Russian
Chickweed (Mouseear, Canada)	Marestail (Horseweed)
Chicory	Milkweed, Climbing
*Clover, Hop	Milkweed, Common
*Dandelion, Common	Milkweed, Honeyvine

(Continued)

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Perennials	
Milkweed, Western Whorled	Spurge, Leafy
Nettle, Stinging	Sundrop, Halfshrub (Evening Primrose)
Nightshade, Silverleaf (White Horsenettle)	Thistle, Canada
Onion, Wild	Toadflex, Dalmation
*Plantain, Broadleaf	Tropical Soda Apple
Plantain, Buckhorn	Trumpetcreeper (Buckvine)
Pokeweed	Vetch
Ragweed, Western	Waterhemlock
Redvine	Waterprimrose, Creeping
Sericia Lespedeza	*Woodsorrel, Creeping
Smartweed, Swamp	Common Yellow
Snakeweed, Broom	Wormwood, Common
*Sorrel, Red (Sheep Sorrel)	Wormwood, Louisiana
Sowthistle	*Yankeeweed
Sowthistle, Perennial	Yarrow, Common

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

Woody	
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	Tarbrush
Hornbeam	Willow
Huckleberry	Witch hazel
Huisache	*Yaupon
Ivy, Poison	*Yucca
Kudzu	

* Growth suppression

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

Observe all precautions, mixing and application instructions on this label, as well as the following:

*DO NOT apply this product to seed corn or popcorn 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.

Do not apply more than 2 pints of this product (1.0 lb. a.e.) per acre per application and no more than two applications per year.

Allow two weeks or more between application of this product. 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. Cultivation should be delayed 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 postemergence weed control, particularly in dry growing conditions.

Do not use adjuvants containing penetrants such as petroleum-based oils after crop emergence. 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 weed or give growth suppression of many perennial broadleaf weeds commonly found in corn. (Refer to the "GENERAL WEED LIST".)

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

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

PREPLANT/PREEMERGENCE 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 percent 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 percent 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.

PREEMERGENCE 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 percent or greater organic matter. DO NOT apply to coarse textured soil (sand, sandy loam and loamy sand) until after crop emergence (see "EARLY POSTEMERGENCE" uses below).

Preemergence application of this product does not require mechanical incorporation to become active. A shallow mechanical incorporation is recommended 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 POSTEMERGENCE (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 postemergence application rates below if the 6th true leaf is emerging from whorl, or corn is greater than 8 inches tall.

LATE POSTEMERGENCE (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:

acetochlor (Surpass®, Harness®)	Guardman®
alachlor (Lasso®)	glyphosate (Roundup®)
atrazine	halosulfuron (Permit®)
Bicep II Magnum®	Lariat®
Bullet®	Marksman®
butylate (Sutan+®)	s-metolachlor (Dual II Magnum®)
Clarity®	paraquat (Gramoxone®)
dimethenamid (Frontier®)	pendimethalin (Prowl®)
EPTC (Eradicane®)	simazine (Princep®)

Apply this product at 0.5 pint per treated acre to ground previously treated with full rates of Clarity and Markon herbicides. Allow at least 2 weeks between applications.

Read and follow label directions for each of the above products.

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 in corn. Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings and other restrictions.

RATES AND TIMINGS

This Product Plus	Preplant/Preemergence (No Tillage Corn)	Preemergence (Conventional or Reduced Tillage Corn)	Early Postemergence (All Tillage Systems)	Late Postemergence (All Tillage Systems)	Additional Directions
Accent® (Nicosulfuron)	—	—	0.5 to 1 ounce a.i./A	0.5 to 1 ounce a.i./A (To improve spray coverage of weeds and reduce risk of corn injury, use drop pipes to direct spray beneath corn leaves when corn is greater than 8 inches tall.)	Application may be made to emerged weeds before corn is greater than 24 inches tall. Use non-ionic surfactant at 0.25% (V/V) with this tank mixture.
atrazine	1.25 to 2 lbs. a.i./A	1.25 to 2 lbs. a.i./A	1.25 to 2 lbs. a.i./A Crop oil concentrates may be used with this mixture if corn is 5 inches or less in height.	1.25 to 2 lbs. a.i./A Do not apply if corn is greater than 12 inches tall.	Application may be made before grasses are 1.5 inches tall. Follow all State and Federal restrictions pertaining to atrazine applications.
Beacon® (primisulfuron)	—	—	0.31 to 0.62 oz. a.i./A	0.31 to 0.62 oz. a.i./A (To improve spray coverage of weeds and reduce risk of corn injury, use drop pipes to direct spray beneath corn leaves when corn is greater than 8 inches tall.)	Application may be made to emerged weeds when corn is 4 to 24 inches tall. Use non-ionic surfactant at 0.25% (V/V) with this tank mixture.
DUAL II Magnum/DUAL II Magnum SL (metolachlor)	0.8 to 1.6 lbs. a.i./A	0.8 to 1.6 lbs. a.i./A (Use only on fine or medium soils with 2.5% or greater organic matter.)	0.8 to 1.6 lbs. a.i./A	—	Application may be made before grasses reach the 2-leaf stage and before corn is greater than 3 inches tall.
Frontier® (dimethenamid)	13 to 25 fl. ozs./A	13 to 25 fl. ozs./A (Use only on fine or medium textured soil with 2.5% or greater organic matter.)	13 to 25 fl. ozs./A	—	Application may be made up to 8-inch tall corn. This treatment must be combined with a herbicide that provides postemergence control of grass weeds if they are greater than 1-inch tall at the time of application.
Gramoxone (paraquat)	0.25 to 1 lb. a.i./A	0.25 to 1 lb. a.i./A	—	—	Application may be made to emerged weeds but prior to corn emergence.
Harness or Surpass (acetochlor)	1.5 to 3 lbs. a.i./A	1.5 to 3 lbs. a.i./A (Use only on fine or medium textured soil with 2.5% or greater organic matter.)	—	—	Application should be made prior to corn emergence.
Lasso (alachlor)	1.5 to 4 lbs. a.i./A	1.5 to 4 lbs. a.i./A (Use only on fine textured soil with greater than 2.5% organic matter.)	1.5 to 4 lbs. a.i./A	—	Application may be made before grasses reach the 2-leaf stage and before corn is more than 3 inches tall. If microencapsulated forms of alachlor are used (Lasso MT, Partner®), applications must be made prior to grass emergence.
Princep (simazine)	2 to 3 lbs. a.i./A	2 to 3 lbs. a.i./A	—	—	Application may be made prior to corn or weed emergence.
Prowl (pendimethalin)	—	0.75 to 1.5 lbs. a.i./A (Use only on fine or medium textured soil with 2.5% or greater organic matter.)	0.75 to 1.5 lbs. a.i./A	—	Application may be made immediately after planting but prior to weed emergence. Corn should not be beyond the 2-leaf stage of growth.
Roundup (glyphosate)	1 to 3 lbs. a.i./A	1 to 3 lbs. a.i./A	—	—	Application may be made to emerged weeds but prior to corn emergence.
2,4-D	0.25 to 0.5 lb. a.i./A	0.25 to 0.5 lb. a.i./A	NOT RECOMMENDED	0.125 lb. a.i./A	Drop pipes are to be used when corn height is 8 inches or greater. Keeping the spray off the corn leaves and out of the whorl will reduce the likelihood of crop injury and improve spray coverage of the weed foliage.

COTTON (EXCEPT CALIFORNIA)

Preplant Application: Apply up to 8 fluid ounces of this product per acre to control emerged broadleaf weeds prior to planting cotton in conventional or conservation tillage systems.

For best performance, apply this product when weeds are in the 2 to 4 leaf stage and rosettes are less than 2 inches across.

Following application of this product and a minimum accumulation of 1 inch of rainfall or overhead irrigation, a waiting interval of 21 days is required per 8 fluid ounces per acre or less. These intervals must be observed prior to planting cotton.

DO NOT apply preplant to cotton West of the Rockies.

DO NOT make preplant applications of this product to geographic areas with an average annual rainfall less than 25 inches.

If applying a Spring preplant treatment following application of a Fall preplant (postharvest) treatment, the combination of both treatments may not exceed 4 pints of this product (2 lbs. a.e.) per year.

Tank Mix Treatments

For control of grasses or additional broadleaf weeds, this product may be tank mixed with Bladex®, Caparol®, Gramoxone Extra, and Roundup herbicides.

SORGHUM (MILO)

Observe all precautions 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. If sorghum is grown for pasture or hay, refer to the pasture use section of this label. Do not apply this product to sorghum grown for seed production.

Make no more than one application per growing season.

Preharvest Interval (PHI) Restrictions: Grain sorghum-30 days; Fodder-30 days; Forage-20 days.

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 "GENERAL WEED LIST" section.)

RATES AND TIMINGS

This product may be applied to emerged and actively growing weeds at least 15 days prior to planting. Postemergence application of this product must be made after sorghum is in the spike stage (all sorghum emerged), but before sorghum is 15 inches tall. For best performance, make applications 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

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 lbs. 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). Application of atrazine must be made 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 Buctril®

For improved control of broadleaf weeds, tank mix 0.5 pint of this product with 1 to 1.5 pints (0.25 to 0.375 lb. a.i./A) Buctril Herbicide 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.

READ AND FOLLOW THE LABEL OF EACH TANK MIX PRODUCT USED FOR PRECAUTIONARY STATEMENT, DIRECTIONS FOR USE, APPLICATION RATES AND TIMINGS AND OTHER RESTRICTIONS.

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 (Lasso) (Screen treated seed)	4
atrazine*	2.5
s-metolachlor (Dual II Magnum) (Concep® treated seed)	1.33
* 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.	

PREHARVEST USES

For Use Only in the States of Texas and Oklahoma

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

IMPORTANT

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

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.

Preharvest Interval (PHI) Restriction: Grain-7 days.

NOTE: Observe all precautions and restrictions on the labels of products used in tank mix treatments.

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, it is recommended that this product be applied in a tank mix with other herbicides. Refer to specific tank mix options.

Alkanet ¹	Jacobs Ladder ¹
Bedstraw, Catchweed ¹	Knawel (German Moss)
Bindweed, Field ²	Knotweed, Prostrate
Buckwheat, Tartary	Kochia
Buckwheat, Wild	Ladysthumb
Carpetweed ¹	Lambsquarters, Common
Chamomile, Corn	Lettuce, Miners ¹
Chervil, Bur ¹	Lettuce, Prickly
Chickweed, Common ¹	Mallow, Common
Cockle, Corn	Mayweed, Chamomile (Dogfennel) ¹
Cockle, Cow	Mustard, Blue (Purple) ¹
Cocklebur, Common	Mustard, Tansy
Cornflower (Bachelorbutton) ¹	Mustard, Treacle ¹
Dandelion, Common ²	Mustard, Tumble (Jim Hill) ¹
Dock, Curly ²	Mustard, Wild ¹
Dragonhead, American ¹	Nightshade, Black
Evening Primrose, Cutleaf ¹	Nightshade, Cutleaf ¹
Falseflax, Smallseeded ¹	Nightshade, Silverleaf ²
Fiddleneck (Tarweed) ¹	(White Horsenettle)
Flixweed ¹	Pennycress, Field
Fumitory ¹	(Fanweed, Frenchweed, Stinkweed)
Gromwell, Corn ¹	Pepperweed, Peppergrass ¹
Groundsel, Common ¹	Pigweed, Redroot (Carelessweed)
Hempnettle ¹	Pigweed, Rough
Henbit	Pigweed, Tumble

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Pineappleweed ¹	Smartweed, Green
Plantain, Broadleaf ²	Smartweed, Pennsylvania
Poppy, Red Horned ¹	Sorrel, Red (Sheep Sorrel) ¹
Puncturevine ¹	Sowthistle, Annual
Purslane, Common ¹	Starthistle, Yellow ¹
Radish, Wild ¹	Sunflower, Common (Wild)
Ragweed, Common ¹	Thistle, Canada ²
Ragweed, Giant (Buffaloweed) ¹	Thistle, Russian
Rocket, London ¹	Yarrow, Common ²
Rocket, Yellow ¹	Velvetleaf
Salsify (Goatsbeard) ¹	Vetch ¹
Sherpherdspurse ¹	

¹ These weeds will be controlled with tank mixtures of this product. Refer to tank mix label for specific weeds controlled.
² Tank mixtures 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, make applications 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 Kochia, Russian thistle and prickly lettuce, or dense vegetative growth.

This product used in a tank mix with other herbicides offers the 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 mixing with sulfonylurea herbicides, such as Ally[®], Amber[®], Express[®], Finesse[®], Glean[®] and Harmony[®] Extra, use an agriculturally approved surfactant of at least 80 percent active ingredient at the rate of 1 to 4 pints per 100 gallons of spray, or not more than 0.25 to 0.5 percent 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.

FALL AND SPRING SEEDED WHEAT

THIS PRODUCT MUST BE APPLIED TO FALL SEEDED WHEAT PRIOR TO THE JOINTING STAGE. APPLICATIONS TO SPRING SEEDED WHEAT MUST BE MADE BEFORE WHEAT EXCEED THE 5 LEAF STAGE. Early developing wheat varieties such as TAM 107, Madison or Wakefield must receive application 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.

Tank Mix Treatments

This product may be tank mixed with one or more, but not limited to, the following herbicides. Read and follow the label of each tank mix product used for precautionary statements, directions for use, weeds controlled and geographic and other restrictions.

Broadcast Rate Per Treated Acre:

Apply 2 to 4 fluid ounces of this product with:

Product	Active Ingredient	Formulation	Amount of Product per Acre
2,4-D Amine or Ester	2,4-D	4 lbs./gal.	8 to 12 fl. ozs. (0.25 to 0.375 lb. a.i./A) ¹
MCPA Amine or Ester	MCPA	4 lbs./gal.	8 to 12 fl. ozs. (0.25 to 0.375 lb. a.i./A) ¹
Ally	metsulfuron-methyl	60% DF	1/10 oz.
Amber	triasulfuron	75% DF	0.28 oz.
Express	thifensulfuron + tribenuron-methyl	75% DF	1/6 oz.
Finesse	chlorsulfuron + metsulfuron-methyl	75% DF	1/3 oz.

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Product	Active Ingredient	Formulation	Amount of Product per Acre
Glean	chlorsulfuron	75% DF	1/6 oz.
Harmony Extra	thifensulfuron + tribenuron-methyl	75% DF	1/3 oz.
Buctril	bromoxynil ²	2 lbs./gal.	1 to 1.5 pts.
Bronate [®]	bromoxynil + MCPA	4 lbs./gal.	1 to 2 pts.
Curtail [®]	clopyralid + 2,4-D	2.38 lbs./gal.	2 to 2.66 pts.
Stinger [®]	clopyralid	3 lbs./gal.	0.25 to 0.33 pt.
Karmex ^{®3}	diuron ²	80% DF	0.5 to 1.5 lbs.
Sencor ^{®3}	metribuzin ²	75% DF	1 to 10 ozs.
Tiller ^{®4}	fenoxaprop-ethyl + MCPA +	2.7 lbs./gal.	1 to 1.7 pts.

¹ When using formulations other than 4 lbs./gal., use lbs. active per acre listed.
² Herbicides with the same active ingredient and/or different formulation may be used.
³ Tank mixtures for Fall seeded wheat only.
⁴ Use 2 fl. ozs. of this product only. DO NOT use if wild oats is the target weed. DO NOT use on Durum wheat.

SPECIAL USE TANK MIXES FOR SPRING AND FALL SEEDED WHEAT (See Footnotes For Applicable Uses)

Apply 3 to 4¹ fluid ounces of this product with:

Product ²	Active Ingredient	Formulation	Amount of Product per Acre ³
2,4-D or MCPA Amine	2,4-D or MCPA	4 lbs./gal.	1 to 2 pts. ³ (0.5 to 1 lb. a.i./A) ⁴
2,4-D or MCPA Ester	2,4-D or MCPA	4 lbs./gal.	1 to 1.5 pts. ³ (0.5 to 0.75 lb. a.i./A) ⁴
Ally	metsulfuron-methyl	60% DF	1/20 to 1/10 oz.
Amber	triasulfuron	75% DF	0.14 to 0.28 oz.
Express	thifensulfuron + tribenuron-methyl	75% DF	1/12 to 1/6 oz.
Finesse	chlorsulfuron + metsulfuron-methyl	75% DF	1/6 to 1/3 oz.
Glean	chlorsulfuron	75% DF	1/6 oz.
Harmony Extra	thifensulfuron + tribenuron-methyl	75% DF	1/6 to 1/3 oz.
Ally + 2,4-D Amine or Ester ⁵	metsulfuron-methyl + 2,4-D	60% DF + 4 lbs./gal.	1/20 to 1/10 oz. + 8 fl. ozs.
Amber + 2,4-D Amine or Ester ⁵	triasulfuron + 2,4-D	75% DF + 4 lbs./gal.	0.14 to 0.28 oz. + 8 fl. ozs.
Express + 2,4-D Amine or Ester ⁵	thifensulfuron + tribenuron-methyl + 2,4-D	75% DF + 4 lbs./gal.	1/12 to 1/6 oz. + 8 fl. ozs.
Finesse + 2,4-D Amine or Ester ⁵	chlorsulfuron + metsulfuron-methyl + 2,4-D	75% DF + 4 lbs./gal.	1/6 to 1/3 oz. + 8 fl. ozs.
Glean + 2,4-D Amine or Ester ⁵	chlorsulfuron + 2,4-D	75% DF + 4 lbs./gal.	1/6 oz. + 8 fl. ozs.
Harmony Extra + 2,4-Amine or Ester ⁵	thifensulfuron + tribenuron-methyl + 2,4-D	75% DF + 4 lbs./gal.	1/6 to 1/3 oz. + 8 fl. ozs.

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Product ²	Active Ingredient	Formulation	Amount of Product per Acre
Roundup ⁶	glyphosate	3 lbs./gal.	12 to 16 fl. ozs.

¹ 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 fluid ounces 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.

² DO NOT use low rates of sulfonylurea herbicides, such as Ally, Amber, Express, Finesse, Glean and Harmony Extra on more mature weeds and/or on dense vegetative growth.

³ NOTE: For use on Fall seeded wheat only. Do not use unless potential crop injury will be acceptable.

⁴ When using formulations other than 4 lbs./gal., use lbs. active per acre listed.

⁵ Use for improved control of Russian thistle, flaxweed, gromwell, mayweed and fiddleneck.

⁶ This product may be applied at 2 fl. ozs. with Roundup as a preplant application to small grains with no waiting period prior to planting. Add 0.5% by volume of an agriculturally approved non-ionic surfactant.

FALL SEEDED BARLEY

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

NOTE: 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. Read and follow the label of each tank mix product used for precautionary statements, directions for use, weeds controlled and geographic and other restrictions.

Broadcast Rate Per Treated Acre

Apply 2 to 4 fluid ounces of this product with:

Product ¹	Active Ingredient	Formulation	Amount of Product per Acre
2,4-D Amine or Ester	2,4-D	4 lbs./gal.	8 fl. ozs. (0.25 lb. a.i./A) ²
MCPA Amine or Ester	MCPA	4 lbs./gal.	8 to 12 fl. ozs. (0.25 to 0.375 lb. a.i./A)
Ally	metsulfuron-methyl	60% DF	1/20 to 1/10 oz.
Amber	triasulfuron	75% DF	0.14 to 0.28 oz.
Express	thifensulfuron + tribenuron-methyl	75% DF	1/12 to 1/6 oz.
Finesse	chlorsulfuron + metsulfuron-methyl	75% DF	1/6 to 1/3 oz.
Glean	chlorsulfuron	75% DF	1/6 oz.
Harmony Extra	thifensulfuron + tribenuron-methyl	75% DF	1/6 to 1/3 oz.
Sencor	metribuzin ³	75% DF	1 to 10 ozs.
Buctril	bromoxynil	2 lbs./gal.	1 to 1.5 pts. 1 to 2 pts.
Bronate	bromoxynil + MCPA	4 lbs./gal.	0.75 to 1.5 pts.

¹ DO NOT use low rates of sulfonylureas (Ally, Amber, Express, Finesse, Glean and Harmony Extra) on more mature weeds and/or on dense vegetative growth.

² When using formulations other than 4 lbs./gal., use lbs. active per acre listed.

³ Herbicides with the same active ingredient and/or different formulations may be used.

SPRING SEEDED BARLEY

THIS PRODUCT MUST BE APPLIED 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. Read and follow the label of each tank mix product used for precautionary statements, directions for use, weeds controlled and geographic and other restrictions.

Broadcast Rate Per Treated Acre

Apply 2 to 3 fluid ounces of this product with:

Product ¹	Active Ingredient	Formulation	Amount of Product per Acre
MCPA Amine or Ester	MCPA	4 lbs./gal.	8 to 12 fl. ozs. (0.25 to 0.375 lb. a.i./A) ²
Ally	metsulfuron-methyl	60% DF	1/20 to 1/10 oz.
Amber	triasulfuron	75% DF	0.14 to 0.28 oz.
Express	thifensulfuron + tribenuron-methyl	75% DF	1/12 to 1/6 oz.
Finesse	chlorsulfuron + metsulfuron-methyl	75% DF	1/6 to 1/3 oz.
Glean	chlorsulfuron	75% DF	1/6 oz.
Harmony Extra	thifensulfuron + tribenuron-methyl	75% DF	1/6 to 1/3 oz.
Sencor	metribuzin ³	75% DF	1 to 10 ozs.
Buctril	bromoxynil	2 lbs./gal.	1 to 1.5 pts.
Bronate	bromoxynil + MCPA	4 lbs./gal.	0.75 to 1.5 pts.

¹ DO NOT use low rates of sulfonylurea (Ally, Amber, Express, Finesse, Glean and Harmony Extra) on more mature weeds and/or on dense vegetative growth.

² When using formulations other than 4 lbs./gal., use lbs. active per acre listed.

³ Herbicides with the same active ingredient and/or different formulations may be used.

FALL AND SPRING SEEDED OATS

THIS PRODUCT MUST BE APPLIED BEFORE SPRING SEEDED OATS EXCEED THE 5 LEAF STAGE. APPLICATIONS TO FALL SEEDED OATS MUST BE MADE PRIOR TO THE JOINTING STAGE

Tank Mix Treatments

This product may be tank mixed with one or more of, but not limited, the following herbicides. Read and follow the label of each tank mix product used for precautionary statements, directions for use, weeds controlled and geographic and other restrictions.

Broadcast Rate Per Treated Acre

Apply 2 to 4 fluid ounces of this product with:

Product	Active Ingredient	Formulation	Amount of Product per Acre
MCPA Amine or Ester	MCPA	4 lbs./gal.	8 to 12 fl. ozs. (0.25 to 0.375 lb. a.i./A) [*]

^{*} When using formulations other than 4 lbs./gal., use lbs. active per acre listed.

SUGARCANE

Observe all precautions on this label. 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.

Preharvest 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 "GENERAL 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 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. Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings, weeds controlled and geographic and other restrictions.

Herbicide	Rates Per Treated Acre (Lbs. a.i.)
Ametryn (Evik®)	0.4 to 8
Asulam (Asulox®)	2 to 3.3
atrazine	0.4 to 4
2,4-D	0.5 to 3*
* 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 GENERAL FARMSTEAD (NON-CROPLAND)

This product is recommended for use 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, railroad 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 on this label. 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, sorghum, oats, rye, 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/acre are applied.

Established grass crops growing under stress can exhibit various injury symptoms that may be more pronounced if herbicides are applied. Bentgrass, carpetgrass, buffalograss 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 kill alfalfa, clovers, lespedeza, wild winter peas, vetch and other legumes.

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

This Product (Rate/Treated Acre)	Days Before Grazing	Days Before Hay Harvest
Up to 1 pint (0.5 lb. a.e.)	7	37
Up to 1 quart (1 lb. a.e.)	21	51

NOTE: Observe all precautions and restrictions on labels of products used in tank mixes.

MIXING AND APPLICATION

This product can be applied using water, oil in water emulsions (including invert systems), or sprayable fluid fertilizer as a carrier. A compatibility test (see "COMPATIBILITY TEST" section) should be made prior to tank mixing.

To prepare oil-in-water emulsions, fill the spray tank one-half full 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 premix 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 general farmstead (non-cropland) areas. (Refer to the "GENERAL 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

Applications 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.)
Annual		
Small, actively growing	0.5 to 1 pt.	0.125 to 0.5
Established weed growth	1 to 1.5 pts.	0.5 to 0.75
Biennial ¹		
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
Perennial		
Suppression or Top growth control	0.5 to 1 qt.	0.5 to 1
Noted (*) perennials	1 qt.	1
Other perennials	1 qt.	1
Woody Brush and Vines		
Top growth suppression	0.5 to 1 qt.	0.5 to 1
Top growth control ²	1 qt.	1
Stems and Stem suppression	1 qt.	1

¹ For best performance, make application when biennial weeds are in the rosette stage.

² Species noted in "GENERAL WEED LIST" will require tank mixtures for adequate control.

Retreatments may be made as needed; however, do not exceed a total of 2 applications of this product per year.

Tank Mix Treatments

Read and follow the label of each tank mix product used for precautionary statements, directions for use, application rates and other restrictions.

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

Herbicide	Rate Per Treated Acre (Lbs. a.i.)
Pasture, Hay, Rangeland and General Farmstead (Non-Cropland) Use:	
glyphosate (Roundup)	0.75 to 3.75
metsulfuron-methyl (Ally)	0.0038 to 0.011
paraquat (Gramoxone)	0.5 to 1
picloram (Tordon®)	0.125 to 3
triclopyr (Garlon®)	0.75 to 9
2,4-D	0.25 to 6

Due to the variations that may occur on formulated product and specific use ingredients (e.g., water supplies), a compatibility test (see "COMPATIBILITY TEST" section) is recommended prior to actual tank mixing.

CUT SURFACE TREE TREATMENTS

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

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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.

NOTE: 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 applications of this product should be applied directly to the soil as close as possible to the root crown but within 6 to 8 inches of the crown. On sloping terrain, application should be made 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. Example: 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 2 quarts of this product per acre per year.

LO-OIL basal bark applications of this product should be applied 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, make application when plants are dormant. 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.

This product is recommended for use on both newly-seeded and established grasses grown in Conservation Reserve or Federal Set-Aside Programs.

Observe all precautions, mixing and application directions on this label.

Treatment of this product will cause injury or may kill alfalfa, clovers, lespedeza, wild winter peas, vetch and other legumes.

Agriculturally approved surfactants may be added to the spray mixture to improve postemergence 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 preplant or postemergence to newly seeded grasses or small grains such as barley, oats, rye, sudangrass, wheat or other grain species grown as a cover crop. Postemergence 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. Preplant 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, carpetgrass, smooth brome, buffalograss 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 "GENERAL WEED LIST" section).

RATES AND TIMINGS

Application rates and timing of this product treatment 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 ¹ and Stage	Broadcast Rate Per Treated Acre	
	Amount of This Product (pts.)	Equivalent Lbs. Dicamba a.e.
Annuals		
Small, actively growing	0.25 to 1	0.125 to 0.5
Established weed growth	1	0.5
Biennials ²		
Rosette diameter		
a) Less than 3 inches	0.5 to 1	0.25 to 0.5
b) 3 inches or greater	1 to 2	0.5 to 1
c) Bolting biennial	2	1
Perennials ²		
Suppression/Control	2	1

¹ For best results, treat biennial weeds with this product when they are in the rosette stage of growth. Retreatments may be made as needed; however, DO NOT exceed a total of 2 applications per year.

² 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 such as 2,4-D, glyphosate (Roundup), paraquat (Gramoxone), metsulfuron (Ally) and others.

Read and follow the label of each tank mix product used for precautionary statements, directions for use, application rates and other restrictions.

ASPARAGUS

IMPORTANT

Observe all precautions on this label. 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.

Multiple applications may be made per growing season. DO NOT exceed a total of 1 pint of this product 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	0.5 to 1 pt. (0.25 to 0.5 lb. a.e.)
Pigweed, Redroot (Carelessweed)	
Sowthistle, Annual	
Thistle, Canada*	
Thistle, Russian	
Bindweed, Field*	1 pt. (0.5 lb. a.e.)
Chickweed, Common	
Goosefoot, Nettleleaf	
Radish, Wild	
Thistle, Milk	

* This product may be applied in a tank mixture with either 2,4-D or Roundup for improved control of Canada thistle and Field bindweed.

Read and follow 2,4-D and Roundup product labeling for precautionary statements, directions for use, application rates and timing and other restrictions.

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

IMPORTANT

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

To avoid injury to newly seeded grasses, application of this product should be delayed 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, carpetgrass, buffalograss and St. Augustinegrass.

In areas where roots of sensitive plants extend, do not apply in excess of 0.25 pint (0.125 lb. a.e.) of this product 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.

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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 "GENERAL WEED LIST" section.)

MIXING AND APPLICATION

Apply 30 to 200 gallons of diluted spray per treated acre (3 qts. 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	Lbs. A.E. Per Treated Acre	Teaspoons Per 1,000 sq. ft.
Annual			
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
Biennial 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 applications of this product per year.

Tank Mix Treatments

Read and follow the label of each tank mix product used for precautionary statements, directions for use, application rates and timing and other restrictions.

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.

Apply 0.2 to 0.5 pint (0.1 to 0.25 lb. a.e.) of this product per treated acre with 0.5 to 1.5 lbs. acid equivalent of 2,4-D, MCPA or MCPP, or with 0.375 to 0.5 lb. a.i. of bromoxynil. 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 applications of this product per year.

GRASS SEED CROPS - GRASSES GROWN FOR SEED (Such as Bermudagrass, Bluegrass, Fescue and Ryegrass)

IMPORTANT

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

Refer to the "PASTURE, HAY, RANGELAND AND GENERAL FARMSTEAD (NON-CROPLAND)" section for possible grazing and feeding restrictions.

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, it is recommended that this product be applied in a tank mix with other herbicides.

Alfalfa*	Hemlock, Poison
Bedstraw, Catchweed	Knapweed, Russian ¹
Bindweed, Field	Knawel
Buttercup, Corn	Knotted, Prostrate
Buttercup, Creeping	Kochia
Buttercup, Western Field	Ladysthumb
Catchfly, Nightflowering	Lettuce, Prickly
Chamomile, Corn	Mayweed (Dogfennel)
Chickweed, Common	Ragwort, Tansy
Chickweed, Mouseear	Sorrel, Red (Sheep Sorrel)
Clover	Sowthistle, Annual
Cockle, White	Starwort, Little
Dock, Broadleaf	Thistle, Canada*
Dock, Curly	

* Top growth only.

RATES AND TIMING

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. DO NOT apply after the 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 all broadleaf herbicides registered for use in Grass Seed Production. Read and follow the label of each tank mix product used for precautionary statements, directions for use, weeds controlled and geographic and other restrictions.

Broadcast Rate Per Treated Acre

Apply 0.5 to 2 pints of this product with:

Product	Active Ingredient	Formulation	Amount of Product per Acre
2,4-D Amine or Ester	2,4-D	4 lbs./gal.	1 to 4 pts. (0.5 to 2 lbs. a.i./A) ¹
MCPA Amine	MCPA	4 lbs./gal.	1 to 2 pts. (0.5 to 1 lb. a.i./A) ¹
Buctril	bromoxynil ²	2 lbs./gal.	1 to 2 pts.
Curtail	clpyralid + 2,4-D	2.38 lbs./gal.	1.75 to 4 pts.
Karmex	diuron ²	80% DF	2 to 4 lbs.
Stinger	clpyralid	3 lbs./gal.	0.25 to 1 pt.

¹ When using formulation other than 4 lbs./gal., use lbs. active per acre listed.

² Herbicides with the same common name and/or different formulations may be used.

ANNUAL GRASS CONTROL

For suppression of annual weeds such as:

Brome, Downy (Cheatgrass)	Brome, Ripgut	Fescue, Rattail	Windgrass
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Apply up to 4 pints of this product per treated acre in the Fall or late summer after harvest and burning of established grass seed crops. Applications should be made immediately following the first irrigation when the soil is moist and before weeds have more than 2 leaves.

PREPLANT DIRECTIONS

(POSTHARVEST/FALLOW/CROP STUBBLE/SET-A-SIDE) FOR BROADLEAF WEED CONTROL BEFORE WHEAT, CORN, SORGHUM AND SOYBEANS

IMPORTANT

Observe all precautions. Read and follow mixing, application and cleaning instructions.

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 postharvest in the Fall, Spring or Summer during the fallow period or to crop stubble/set-a-side acres.

This product, when applied at the specified rates, will control many annual broadleaf weeds (see the "WEEDS CONTROLLED" section under small grains). In addition, this product will control or suppress the following biennial and perennial broadleaf weeds:

Alfalfa ¹	Knapweed, Spotted
Artichoke, Jerusalem	Nightshade, Silver
Bindweed, Field	Redvine
Bindweed, Hedge	Smartweed, Swamp
Blueweed, Texas	Sowthistle, Perennial ¹
Bursage	Spurge, Leafy
(Bur Ragweed Povertyweed, Lakeweed) ¹	Thistle, Bull
Dandelion, Common ¹	Thistle, Canada ²
Dock, Curly ¹	Thistle, Milk
Dogbane, Hemp	Thistle, Musk
Garlic, Wild ²	Thistle, Plumeless
Horsenettle, Carolina	Thistle, Scotch
Knapweed, Diffuse	Trumpet creeper (Buckvine)

¹ 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.

² See the "SPECIAL TANK MIX TREATMENTS" section of this heading for specific control program for these weeds.

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RATES AND TIMINGS

Apply this product as a broadcast or spot treatment to emerged and actively growing weeds after crop harvest (postharvest) and before a killing frost, in the fallow cropland, or 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 bulblets, 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" section under the small grains heading for details.

RATE OF THIS PRODUCT PER TREATED ACRE	
Weed Type	Amount of Product Per Treated Acre (Pts.)
Annuals	0.5 to 1
Biennials	1 to 2
Perennials	
Suppression	1 to 2
Control - Noted (*) perennials	2
Control - Other perennials	2

Retreatments may be made as needed; however, DO NOT exceed a total of 2 applications of this product 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. Read and follow the label of each tank product used for precautionary statements, directions for use, rates and timings, weeds controlled and geographic or other restrictions.

Broadcast Rate Per Of This Product Per Treated Acre For Annual Weed Control

Apply 0.25 to 1 pint of this product with:

Product	Active Ingredient	Formulation	Amount of Product Per Acre
Aatrex® 4L ¹	atrazine	4 lbs./gal.	0.5 to 6 pts.
Aatrex Nine-O ¹	atrazine	90% DF	0.5 to 3.3 lbs.
Amber ²	trifluralin	75% DF	0.28 to 0.35 oz.
Ally ²	metasulfuron-methyl	75% DF	0.1 oz.
Fallow Master®	glyphosate + dicamba	2 lbs./gal.	22 to 44 fl. ozs.
Finesse ²	chlorsulfuron + metasulfuron-methyl	75% DF	0.2 oz.
Gramoxone Extra	paraquat	2.5 lbs./gal.	1.5 pts.
Kerb® ¹	pronamide	50-W	0.5 to 1 lb.
Landmaster® BW	glyphosate + 2,4-D	2.4 lbs./gal.	27 to 54 fl. ozs.
Roundup	glyphosate	3 lbs./gal.	8 to 48 fl. ozs.
Sencor DF ¹	metribuzin	75% DF	0.5 to 1 lb.
Sencor 4 ¹	metribuzin	4 lbs./gal.	0.75 to 1.5 pts.
2,4-D	2,4-D	4 lbs./gal.	1 to 2 pts. (0.5 to 1 lb. a.i./A) ³

¹ 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.

² 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 1 to 2 qts./100 gals. of spray, or not more than 0.25 to 0.5 percent 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.

³ When using formulations other than 4 lbs./gal., use lbs. active per acre listed.

Broadcast Rate Of This Product Per Treated Acre For Biennial And Perennial Weed Control

Apply 1 to 2 pints of this product with:

Product	Active ingredient	Formulation	Amount of Product Per Acre
Curtail	clopyralid + 2,4-D	2.38 lbs./gal.	2 to 4 pts.
2,4-D	2,4-D	4 lbs./gal.	2 to 6 pts. (1 to 3 lbs. a.i./A)*
Landmaster BW	glyphosate + 2,4-D	2.4 lbs./gal.	54 fl. ozs.
Roundup	glyphosate	3 lbs./gal.	1 to 5 qts.
Tordon® 22K	picloram	2 lbs./gal.	0.5 to 1 pt.

* When using formulations other than 4 lbs./gal., use lbs. active per acre listed.

SPECIAL TANK MIX TREATMENTS

For suppression of perennial weeds, apply 0.5 to 1 pt. of this product with 8 to 16 fl. ozs. of Roundup or Roundup RT Herbicide per treated acre.

For Wild garlic control, apply 1 pt. of this product with 3 pts. 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 Curtail or this product plus Roundup herbicide tank mix treatments.

Application may be made during fallow periods for control of volunteer barley, bulbous bluegrass, downy brome, jointed goatgrass, common rye and volunteer wheat when they are actively growing. Use 1 pint of this product with 0.5 to 1 lb. Kerb 50W. 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 Landmaster BW or Fallow Master Herbicide to give improved control of kochia, wild buckwheat, prickly lettuce, field bindweed and Canada thistle. Use 0.125 to 0.25 pt. of this product plus 22 to 54 fl. ozs. of Landmaster BW or Fallow Master Herbicide for annual weed control or 0.25 to 0.5 pint of this product plus 22 to 54 fl. ozs. of Landmaster BW or Fallow Master Herbicide for perennial weed suppression.

CROPPING RESTRICTIONS

The following directions are based on the use rates of this product up to 2 pints per treated acre.

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, treated areas should be cultivated 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 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 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.

CONTROL OF PERENNIAL BROADLEAF WEEDS IN CROPLAND (SPOT APPLICATION* ONLY)

*Area no greater than 1,000 sq. ft. per acre.

FOR USE ONLY IN THE STATES OF IDAHO, MONTANA, NEVADA, OREGON, UTAH AND WASHINGTON

IMPORTANT

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

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Do not treat sub-irrigated cropland or ar 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, Curly	Ragwort, Tansy
Dock, Broadleaf	Knapweed, Black	Spurge, Leafy
(Bitterdock)	Knapweed, Russian	Thistle, Canada

RATES AND TIMINGS

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

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

NOTE: DO NOT use unless injury to wheat or rotated barley will be acceptable.

Barley, oats, corn, sorghum (milo), annual or perennial grass crops 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 sugarbeets 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

IMPORTANT

Observe all precautions on this label. 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. Wiper application should only be made to crops (including pastures) and non-cropland areas described in this label with the exception of grain sorghum (milo).

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and 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: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

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; 5 gallons or greater): 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. Fill 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 Containers: 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, mixtures with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the Seller. To the extent consistent with applicable law, 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 law, 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.

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