

34704-1073

1/15/2013

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U.S. ENVIRONMENTAL PROTECTION AGENCY

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

EPA Reg. Number:
34704-1073

Date of Issuance:
JAN 15 2013

NOTICE OF PESTICIDE:
[X] Registration
[ ] Reregistration
(under FIFRA, as amended)

Term of Issuance: unconditional

Name of Pesticide Product:
LPI S-METOLACHLOR

Name and Address of Registrant (include ZIP Code):

Loveland Products Inc.
P.O. Box 1286
Greeley, CO 80632-1286

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

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

The Basic Confidential Statement of Formula (CSF) dated 9/26/12 is acceptable.

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

- 1. Submit and/or cite all data required for registration review/reregistration of your product when the Agency requires all registrants of similar products to submit data.
2. Make the following label revision:
a. a. Revise "EPA REG. NO. 34704-XXXX" to "EPA REG. NO. 34704-1073." Assure that the establishment number and net contents are also added to the final printed label.
3. Submit one (1) copy of the revised final printed label for the record.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

If you have any questions regarding this notice, please contact Emily Hartman of my staff at 703-347-0189 or hartman.emily@epa.gov.

Signature of Approving Official:

[Handwritten Signature]
Kathryn V. Montague
Project Manager 23
Herbicide Branch
Registration Division (7505P)

Date:

JAN 15 2013

Sale, use and distribution of this product in Nassau and Suffolk Counties in the State of New York is prohibited.

GROUP 15 HERBICIDE

# LPI S-METOLACHLOR HERBICIDE

For weed control in beans, peas, and lentils; corn; cotton; grasses grown for seed; horseradish; peanuts; potatoes; pumpkin; rhubarb; safflowers; sweet, grain, or forage sorghum; soybeans; soybeans, immature seed; sugar beets; sunflowers; and tomatoes

Active Ingredient:

S-metolachlor (CAS No. 87392-12-9) .....	82.4%
Other Ingredients .....	17.6%
Total: .....	100.0%

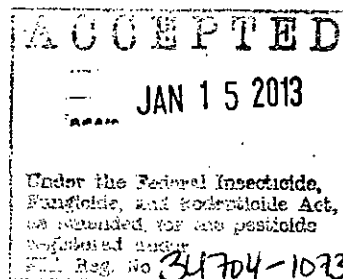
Contains 7.64 lbs. of active ingredient per gallon

KEEP OUT OF REACH OF CHILDREN  
**CAUTION**

See additional precautionary statements and directions for use inside booklet.

EPA Reg. No. 34704-XXXX  
EPA Est. No. 34704-MS-001

NET CONTENTS: 2.5 GALLONS



<b>FIRST AID</b>	
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a Poison Control Center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a Poison Control Center or doctor for treatment advice.</li> </ul>
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a Poison Control Center or doctor immediately for treatment advice.</li> <li>• Do not give any liquid to the person.</li> <li>• Do not induce vomiting unless told to do so by the Poison Control Center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a Poison Control Center or doctor for further treatment advice.</li> </ul>
<p>Have the product container or label with you when calling a Poison Control Center or doctor, or going for treatment.  <b>FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565.</b></p>	

**PRECAUTIONARY STATEMENTS**  
**Hazards to Humans and Domestic Animals**  
**CAUTION**

Causes eye irritation. Harmful if swallowed or absorbed through skin. Avoid contact with eyes, skin, or clothing. This product may cause skin sensitization reactions in some people.

**Personal Protective Equipment (PPE)**

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants,
- Chemical-resistant gloves, such as barrier laminate or Viton®, and
- Shoes plus socks

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

**Engineering Control Statements**

Mixers and loaders supporting aerial applications are required to use closed systems. The closed system must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)]. When using the closed system, the mixers' and loaders' PPE requirements may be reduced or modified as specified in the WPS.

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.

**User Safety Recommendations**

**Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**Environmental Hazards**

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 wash water or rinsate.

**Ground Water Advisory**

The active ingredient in this product has the potential to leach through soil into ground water 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 ground water contamination.

**Surface Water Advisory**

The active ingredient in this product has the potential to contaminate surface water, through ground spray drift. Under some conditions, the active ingredient may also have a high potential for runoff into surface water (primarily via dissolution in runoff water) for several months post-application. These include poorly drained or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow ground water, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas overlaying tile drainage systems that drain to surface water.

**Mixing/Loading Instructions**

Care must be taken when using this product to prevent back-siphoning into wells, spills, or improper disposal of excess pesticide, spray mixtures, or rinsates. Check-valves or antisiphoning devices must be used on all mixing and/or irrigation equipment.

This product may not be mixed or loaded within 50 feet of perennial or intermittent streams and rivers, natural or impounded lakes, and reservoirs. This product may not be mixed/loaded or used within 50 feet of all wells, including abandoned wells, drainage wells, and sink holes. Operations that involve mixing, loading, rinsing, or washing of this product into or from pesticide handling or application equipment or containers within

50 feet of any well are prohibited, unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or wash water, and rain water that may fall on the pad. Surface water shall not be allowed to either flow over or from the pad, which means the pad must be self-contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain at a minimum 110% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment capacity of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above-specified minimum containment capacities do not apply to vehicles when delivering pesticide shipments to the mixing/loading site.

**DIRECTIONS FOR USE**

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

This product should be used only in accordance with recommendations on this label or in separately published EPA accepted supplemental labeling recommendations for this product.

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

**AGRICULTURAL USE REQUIREMENTS**

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

**Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.** Exception: If the product is soil-injected or soil incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls,
- Chemical-resistant gloves, such as barrier laminate or Viton, and
- Shoes plus socks

**FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR WEED CONTROL, CROP INJURY, OR ILLEGAL RESIDUES.**

To avoid spray drift, do not apply under windy conditions. Avoid spray overlap, as crop injury may result.

Sale, use and distribution of this product in Nassau and Suffolk Counties in the State of New York is prohibited.

**PRODUCT INFORMATION**

Observe all precautions and limitations on the labels of each product used in tank mixtures. Tank mixtures are permitted only in those states where the tank mix partner is registered. Refer to and follow the label for each tank mix product used for precautionary statements, directions for use, geographic and other restrictions.

This product is a selective herbicide recommended as a preplant surface-applied, preplant incorporated, or preemergence treatment in water or fluid fertilizer for control of most annual grasses and certain broadleaf weeds in beans, peas, and lentils; corn (all types); cotton; grasses grown for seed; peanuts; potatoes; safflowers; sweet, grain, or forage sorghum; soybeans; soybean, immature seed; sugar beets; sunflowers; and tomatoes.

**Restrictions:** Do not use in nurseries, turf, or landscape plantings.

Do not apply under conditions which favor runoff or wind erosion of soil containing this product to nontarget areas.

To prevent off-site movement due to runoff or wind erosion:

1. Avoid treating powdery dry or light sand soils when conditions are favorable for wind erosion. Under these conditions, the soil surface should first be settled by rainfall or irrigation.
2. Do not apply to impervious substrates, such as paved or highly compacted surfaces.
3. Do not use tailwater from the first flood or furrow irrigation of treated fields to treat nontarget crops, unless at least 1/2 inch of rainfall has occurred between application and the first irrigation.

Where directions specify this product's tank mixture with Atrazine 90 formulations, other brands of atrazine may be used. Follow the rates, recommendations, and limitations on the Atrazine 90 or respective atrazine product label, if other brands of atrazine are used.

**Restrictions:** Certain states may have established rate limitations for atrazine within specific geographical areas. Consult your state lead pesticide control agency for additional information. It is a violation of this label to deviate from state use regulations.

If this product is incorporated, any supplemental tillage before planting must not exceed the depth of incorporation.

Dry weather following preemergence application of this product or a tank mixture may reduce effectiveness. Cultivate if weeds develop.

Where reference is made to weeds partially controlled, partial control can either mean erratic control from good to poor, or consistent control at a level below that generally considered acceptable for commercial weed control.

*Precaution: Injury may occur following the use of this product under abnormally high soil moisture conditions during early development of the crop.*

**SOIL TEXTURES AND HERBICIDE RATES**

Where rates are based on coarse-, medium-, or fine-textured soils, it is understood that soil textural classes are generally categorized as follows:

COARSE	MEDIUM	FINE
Sand Loamy Sand Sandy Loam	Loam Silt Loam Silt	Sandy Clay Loam Silty Clay Loam Clay Loam Sandy Clay Silty Clay Clay

Within rate ranges in the rate tables and elsewhere on this label, use the lower rate on soils relatively coarse-textured or low in organic matter; use the higher rate on soils relatively fine-textured or high in organic matter.

**Restrictions:** This product may be applied preemergence alone, or in combination with tank mix partners specified on this label, following preplant incorporated herbicides when used according to their label recommendations, provided that such use is not prohibited on the respective labels.

Thoroughly clean sprayer or other application device before using. Dispose of cleaning solution in a responsible manner. Do not use a sprayer or applicator contaminated with any other materials, or crop damage or clogging of the application device may result.

## THIS PRODUCT APPLIED ALONE

### Weeds Controlled

This product is taken up by the shoots and/or roots of emerging weeds. This uptake results in the inhibition of shoot and root tissue growth soon after weed germination. Because of this, this product will not control emerged weeds and should be applied prior to weed emergence.

If this product is incorporated, do not exceed a 2- to 3-inch depth. Any tillage after this product's incorporation and before planting should not exceed 2 to 3 inches.

Dry weather following application of this product may reduce weed control. Cultivate if weeds develop.

Where reference is made to weeds partially controlled, partial control can either mean erratic control from good to poor or consistent control at a level below that generally considered acceptable for commercial weed control. Control of these weeds can be erratic, due partially to variable weather conditions. The following procedures may improve the control of weeds listed as partially controlled in Table 1:

1. Thoroughly till soil to destroy germinating and emerged weeds.
2. Plant crop into moist soil immediately after tillage. If this product is to be used preemergence, apply at planting or immediately after planting.
3. If available, sprinkler irrigate within 2 days after application. Apply 0.5 to 1 inch of water. Use lower water volume (0.5 inch) on coarse-textured soils and higher volume (1 inch) on fine-textured soils. Also, refer to the section on **Center Pivot Irrigation Application** for this method of applying this product.
4. If irrigation is not possible and rain does not occur within 2 days after planting and application, weed control may be decreased. Under these conditions, a uniform, shallow cultivation is recommended as soon as weeds emerge.

Common Name	Scientific Name	Weed Type	Control (C) or Partial Control(PC)
Barnyardgrass	<i>Echinochloa crus-galli</i>	Grass	C
Crabgrass, large	<i>Digitaria ischaemum</i>	Grass	C
Crabgrass, smooth	<i>Digitaria sanguinalis</i>	Grass	C
Crowfootgrass	<i>Dactyloctenium aegyptium</i>	Grass	C
Cupgrass, Prairie	<i>Eriochloa contracta</i>	Grass	C
Cupgrass, Southwestern	<i>Eriochloa acuminata</i>	Grass	C
Cupgrass, woolly	<i>Eriochloa villosa</i>	Grass	PC <sup>1</sup>
Foxtail, bristly	<i>Setaria verticillata</i>	Grass	C
Foxtail, giant	<i>Setaria faberi</i>	Grass	C
Foxtail, green	<i>Setaria viridis</i>	Grass	C



Foxtail, millet	<i>Setaria italica</i>	Grass	C
Foxtail, yellow	<i>Setaria pumila</i>	Grass	C
Goosegrass	<i>Eleusine indica</i>	Grass	C
Johnsongrass (seedling)	<i>Sorghum halepense</i>	Grass	PC
Millet, wild-proso	<i>Panicum miliaceum</i>	Grass	PC <sup>1</sup>
Panicum, fall	<i>Panicum dichotomiflorum</i>	Grass	C
Panicum, Texas	<i>Panicum texanum</i>	Grass	PC
Rice, red	<i>Oryza punctata</i>	Grass	C
Sandbur, field	<i>Cenchrus spinifex</i>	Grass	PC
Ryegrass, Italian	<i>Lolium multiflorum</i>	Grass	C
Sandbur, Southern	<i>Cenchrus spinifex</i>	Grass	PC
Shattercane	<i>Sorghum bicolor</i>	Grass	PC
Signalgrass, broadleaf	<i>Urochloa platyphylla</i>	Grass	C
Sorghum (volunteer)	<i>Sorghum bicolor</i>	Grass	PC
Witchgrass	<i>Panicum capillare</i>	Grass	C
Amaranth, Palmer	<i>Amaranthus palmeri</i>	Broadleaf	C
Amaranth, Powell	<i>Amaranthus powellii</i>	Broadleaf	C
Beggarweed, Florida	<i>Desmodium tortuosum</i>	Broadleaf	PC
Carpetweed	<i>Mollugo verticillata</i>	Broadleaf	C
Eclipta	<i>Eclipta prostrata</i>	Broadleaf	PC
Galinsoga, hairy	<i>Galinsoga quadriradiata</i>	Broadleaf	C
Galinsoga, smallflower	<i>Galinsoga parviflora</i>	Broadleaf	C
Nightshade, Eastern black	<i>Solanum ptychanthum</i>	Broadleaf	C
Nightshade, hairy	<i>Solanum physalifolium</i>	Broadleaf	PC
Pigweed, prostrate	<i>Amaranthus blitoides</i>	Broadleaf	C
Pigweed, red root	<i>Amaranthus retroflexus</i>	Broadleaf	C
Pigweed, smooth	<i>Amaranthus hybridus</i>	Broadleaf	C
Pigweed, tumble	<i>Amaranthus albus</i>	Broadleaf	C
Purslane, common	<i>Portulaca oleracea</i>	Broadleaf	PC
Pusley, Florida	<i>Richardia scabra</i>	Broadleaf	C
Spiderwort, tropical	<i>Commelina benghalensis</i>	Broadleaf	C
Waterhemp, common	<i>Amaranthus rudis</i>	Broadleaf	C
Waterhemp, tall	<i>Amaranthus tuberculatus</i>	Broadleaf	C
Nutsedge, yellow	<i>Cyperus esculentus</i>	Sedge	C

<sup>1</sup> Refer to the corn section of this label for additional recommendations.

**REPLANT AND ROTATIONAL CROPS SECTION**

**Replanted Crop Directions**

This section covers replant crops that may be planted following a lost crop that has had an application of this product.

If a crop treated with this product is lost, any crop on this label, or on a supplemental label for this product, may be replanted immediately provided that the rate of this product applied to the previous crop was not greater than the labeled rate for the crop to be replanted. If the first application was banded and the replant crop is planted in the

center of the untreated bands, a second banded treatment may be applied at the rate for the use pattern for the replant crop, provided the application does not overlap the first application band.

**Rotational Crop Directions**

Do not rotate to food or feed crops other than those listed below. For all crops not listed, wait at least 12 months following the last application of this product before planting.

Barley, oats, rye, or wheat may be planted 4.5 months following treatment.

Alfalfa may be planted 4 months following application. Clover may be seeded 9 months following application.

**Restrictions:** To avoid injury to rotational alfalfa or clover, (1) Do not apply more than 1.9 lbs. active ingredient per acre (2.0 pts. of this product) in the previous crop, and (2) Do not make lay-by or other postemergent applications of this product in the previous crop.

Tobacco, buckwheat, and rice may be planted in the next spring following treatment.

Below in the rotational crop subsections A through C is a listing of rotational crop options that are made possible through S-metolachlor tolerances which were established by the EPA as crop groupings.

*Precautions: 1) Rotating to crops within these crop groupings at less than 60 days may result in crop injury. 2) If the rate of this product applied in the previous crops was greater than the rate listed here (Sections A through C below), these crops cannot be planted until the following spring.*

**A. If not more than 1.33 pints per acre of this product was applied to the field, the following crops (as well as those listed under subsections B or C below) may be planted 60 days after the last application. A second application of an S-metolachlor-containing product to the following crops is prohibited within 60 days of the original application.**

**Crop Subgroup 1 B - Root Vegetables:**

Garden beet, edible burdock, carrot, celeriac, turnip-rooted chervil, chicory, ginseng, horseradish, turnip-rooted parsley, parsnip, radish, Oriental radish, rutabaga, salsify, black salsify, Spanish salsify, skirret, and turnip.

**Crop Subgroup 3 - Bulb Vegetables (if to be harvested green):**

Garlic, great-headed garlic, leek, green onion, Welsh onion, shallot, Winter squash (including pumpkins).

**B. If not more than 1.67 pints per acre of this product was applied to the field, the following crops (as well as any listed under subsection C below) may be planted**

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60 days after the last application. A second application of an S-metolachlor-containing product to the following crops is prohibited within 60 days of the original application.

**Crop Group 8 - Fruiting Vegetables, except Cucurbits and Tabasco Peppers:**  
Eggplant, groundcherry (*Physalis* spp.), pepino, peppers (bell, chili, cooking, pimento, and sweet), tomatillo, and tomato.

C. If not more than 2.0 pints per acre of this product was applied to the field, the following crops may be planted 60 days after the last application. A second application of an S-metolachlor-containing product to the following crops is prohibited within 60 days of the original application.

**Crop Subgroup 1C -Tuberous and Corm Vegetables:**  
Arracacha; arrowroot; Chinese artichoke; Jerusalem artichoke; edible canna; bitter and sweet cassava; chayote (root); chufa; dasheen (taro); ginger; leren; potato; sweet potato; tanier; tumeric; yam bean; and yam, true.

**Crop Group 3 - Bulb Vegetables (if to be harvested dry):**  
Garlic, great-headed garlic, leek, dry bulb and green onion, Welsh onion, shallot.

**Crop Subgroup 4B - Leaf Petiole Vegetables:**  
Cardoon, celery, Chinese celery, celtuce, Florence fennel, rhubarb, and Swiss chard.

**Crop Subgroup 5A - Head and Stem Brassica Vegetables:**  
Broccoli, Chinese broccoli, Brussels sprouts, cabbage, Chinese (Napa) cabbage, Chinese mustard, cauliflower, cavalo broccolo, and kohlrabi.

## APPLICATION PROCEDURES

### APPLICATION TIMING

This product alone or in some tank mixtures with other labeled herbicides may be applied for weed control in certain crops at various times. Refer to the given crop section of the label to determine if application timings listed below are recommended.

#### **Preplant Surface-Applied:**

For minimum-tillage or no-tillage systems only, this product alone and some of this product's tank mixtures may be applied up to 45 days before planting certain crops. Use only split applications for treatments made 30 to 45 days before planting, with two-thirds of the recommended broadcast rate for the crop and soil texture applied initially and the remaining one-third at planting. Treatments less than 30 days before planting may be made either as a split or a single application. Refer to individual crop section on this label to determine if early preplant surface application is recommended. If weeds are present at the time of treatment, apply in a tank mixture combination with a contact herbicide (for example, Gramoxone Inteon®, Touchdown® brands, or Makaze® brands). Observe directions for use, precautions, and restrictions on the label of the

contact herbicide. To the extent possible, do not move treated soil out of the row or move untreated soil to the surface during planting, or weed control will be diminished.

**Preplant Incorporated:**

Apply this product to the soil and incorporate into the top 2 inches of soil within 14 days before planting, using a finishing disk, harrow, rolling cultivator, or similar implement capable of providing uniform 2-inch incorporation. Use a preplant incorporated application if furrow irrigation is used or when a period of dry weather after application is expected. If crop will be planted on beds, apply and incorporate this product after bed formation, unless specified otherwise.

**Preemergence:**

Apply this product during planting (behind the planter) or after planting, but before weeds or crops emerge.

**Postemergence:**

This product will not control emerged weeds so it must be applied to a weed-free soil surface or in tank mixture with products that provide postemergence control of weeds present at the time of application. Refer to the individual crop section of this label if a postemergence application is recommended.

**SPECIAL APPLICATION PROCEDURES**

**CA Only (Beans, Peas, and Lentils; Corn; Safflowers):**

**Preplant Incorporated:**

Broadcast this product alone or with tank mix partners listed on this label to the soil and thoroughly incorporate with a disk or similar implement set to till 4 to 6 inches deep. For more thorough incorporation, till the soil in 2 different directions (cross-till). Crops may be planted on flat surface or on beds. Use caution when forming the beds that only soil from this product's treated zone is used (i.e., untreated soil should not be brought to soil surface). If the application is made to preformed beds, incorporate this product with a tillage implement set to till 2 to 4 inches deep. Care should be taken during tilling to keep the tilled (this product-treated) soil on the beds.

**Preemergence:**

Apply this product after planting. Water with sprinkler or flood irrigation within 7 to 10 days.

**Fall Application for Spring Weed Control (Only in IA, MN, ND, SD, WI, and portions of NE and IL - See specific instructions in the Beans, Peas, and Lentils; Corn; and Soybeans sections of this label for timing of application and other information):**

Do not apply to frozen ground. Use on medium and fine soils with greater than 2.5% organic matter that will be planted to corn or soybeans the next spring. Ground may be tilled before or after application. Do not exceed a 2- to 3-inch incorporation depth if tilled after treatment. Restrictions: If a spring application is made, the total rate of the fall plus

spring applications must not exceed the maximum total rate for the specific crop, or illegal residues may result.

**Fall Application for Italian Ryegrass Control (Corn, Cotton, Grain and Forage Sorghum, and Soybean Only - See specific instructions in the Corn, Cotton, Grain and Forage Sorghum, and Soybean sections of this label for timing of application and other information):**

This product may be applied in the fall (September 1 to December 1) for residual control of glyphosate-resistant Italian ryegrass (*Lolium multiflorum*). A tillage operation may precede the application. Do not incorporate to a depth greater than 2 to 3 inches if tillage follows the application of this product.

**Restrictions:**

- 1) Do not apply this product to frozen ground.
- 2) All crops on this product's label may be planted the following spring after application.
- 3) If a spring application is made, the combined total amount of this product applied in the fall plus the spring must not exceed the maximum seasonal S-metolachlor rate for the specific crop planted, or illegal residues may result.
- 4) Refer to the crop sections on this label for specific directions.

**Ground Application:**

Apply this product alone or in tank mixtures by ground equipment in a minimum of 10.0 gallons of spray mixture per acre, unless otherwise specified.

Use sprayers that provide accurate and uniform application. For this product's tank mixtures with wettable powder or dry flowable formulations, screens and strainers should be no finer than 50-mesh. Rinse sprayer thoroughly with clean water immediately after use.

Calculate the amount of herbicide needed for band treatment by the formula:

$$\frac{\text{band width in inches}}{\text{row width in inches}} \times \text{broadcast rate per acre} = \text{amount needed per acre of field}$$

For information on applying in lower volumes of carrier, see **Low Carrier Application** section.

For application by air or through center pivot systems, see **Aerial Drift Management** and **Aerial Drift Reduction Advisory Information** sections.

For information on impregnating dry fertilizer, see **Dry Bulk Granular Fertilizer** section.

For information on application using variable-rate technologies, see **Variable-Rate Application** section.

## SPRAY EQUIPMENT

### LOW CARRIER APPLICATION

#### For Broadcast Ground Application Only

Use sprayers, such as Ag-Chem RoGator®, Hagie, John Deere Hi-Cycle™, Melroe Spra-Coupe, Tyler Patriot™, or Willmar Air Ride®, that provide accurate and uniform application. Only water may be used as a carrier. Screens in suction and in-line strainers should be 50-mesh. Manufacturers may require that tip screens as fine as 100-mesh be used with some nozzles. Use a pump with capacity to: (1) maintain up to 35 to 40 psi at the nozzles, and (2) provide sufficient agitation in tank to keep mixture in suspension. Use a minimum of 5.0 gallons of spray mixture per acre. Maximum recommended sprayer speed is 15 mph. Rinse sprayer thoroughly with clean water immediately after each use.

**Restrictions:** Low pressure nozzles are recommended to reduce drift and increase application accuracy. Care should be taken when using automatic rate controlling devices to spray the material within the rated working pressure and flow ranges of the nozzles selected. Nozzle screens should be used when recommended by the manufacturer. All nozzles should be placed on 20-inch centers, except flooding types which should be placed on 40-inch centers. When Flat Fan-type nozzles are used, angles of 80° or 110° are recommended. Always read and follow the manufacturer's directions for optimum setup and performance of their nozzles or tips.

### AERIAL APPLICATION

Apply this product in water alone or in tank mixtures with Atrazine 90, Lorox®, or Metribuzin 75 in minimum total volume of 2.0 gallons per acre by aircraft. This product may also be applied by air in combination with Balan®, Stealth®, or Treflan®. Avoid application under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur. In order to assure that spray will be controllable within the target area when used according to label directions, make applications at a maximum height of 10 feet, using low-drift nozzles at a maximum pressure of 40 psi, and restrict application to periods when wind speed does not exceed 10 mph. To assure that spray will not adversely affect adjacent sensitive nontarget plants, apply this product alone or this product + Atrazine 90 by aircraft at a minimum upwind distance of 400 feet from sensitive plants, or apply this product + Lorox or Metribuzin 75 at a minimum upwind distance of 300 feet from sensitive plants.

### AERIAL DRIFT MANAGEMENT

The interaction of many equipment- and weather-related factors determines the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses, or to applications using dry formulations.

1. The distance of the outermost nozzles on the boom must not exceed three-fourths of the length of the wingspan or rotor.
2. Nozzles must always point backward parallel with the air stream and never be pointed downward more than 45 degrees.

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

The applicator should be familiar with and take into account the information covered in the **Aerial Drift Reduction Advisory Information** section below.

**Aerial Drift Reduction Advisory Information**

**Information on Droplet Size**

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

**Controlling Droplet Size**

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

**Application Height**

Applications should not be made at a height greater than 10 feet above the top of the largest plants, unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

**Swath Adjustment**

When applications are made with a crosswind, the swath will be displaced downward. Therefore, on the upwind and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath

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

**Wind**

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

**Temperature and Humidity**

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is greatest when conditions are both hot and dry.

**Temperature Inversions**

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

**Sensitive Areas**

The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, nontarget crops) is minimal (e.g., when wind is blowing away from the sensitive areas).

Avoid application to humans or animals. Flagmen and loaders should avoid inhalation of spray mist and prolonged contact with skin.

**CENTER PIVOT IRRIGATION APPLICATION**

This product alone or in tank mixture with other herbicides on this label, which are registered for center pivot application, may be applied in irrigation water preemergence (after planting, but before weeds or crop emerge) at rates recommended on this label. This product also may be applied postemergence to the crop and preemergence to weeds in crops where postemergence applications are allowed on this label. Follow all restrictions (height, timing; rate, etc.) to avoid illegal residues. Apply this product only through a center pivot irrigation system. Do not apply this product through any other type of irrigation system. Crop injury, lack of effectiveness, or illegal pesticide residues



in the crop can result from nonuniform distribution of treated water. If you have questions about calibration, you should contact State Extension specialists, equipment manufacturers, or other experts. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system, unless the pesticide label-prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

### Operating Instructions

1. The system must contain a functional check-valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check-valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump or piston pump), effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.
8. Prepare a mixture with a minimum of 1 part water to 1 part herbicide(s) and inject this mixture into the center pivot system. Injecting a larger volume of a more dilute mixture per hour will usually provide more accurate calibration of metering equipment. Maintain sufficient agitation to keep the herbicide in suspension.
9. Meter into irrigation water during entire period of water application.
10. Apply in 0.5 to 1.0 inch of water. Use the lower water volume (0.5 inch) on coarse-textured soils and the higher volume (1 inch) on fine-textured soils. More than 1 inch of water at application may reduce weed control by moving the herbicide below the effective zone in the soil.

*Precaution for center pivot applications: Where sprinkler distribution patterns do not overlap sufficiently, unacceptable weed control may result. Where sprinkler distribution patterns overlap excessively, crop injury may result.*

### DRY BULK GRANULAR FERTILIZERS

Many dry bulk granular fertilizers may be impregnated or coated with this product alone or selected tank mixtures of this product which are registered for preplant incorporated or preplant surface applications which are used to control weeds in crops on this product's label and are not prohibited from use on dry bulk granular fertilizers.

When applying this product or this product's mixtures with dry bulk granular fertilizers, follow all directions for use and precautions on the respective product labels, regarding target crops, rates per acre, soil texture, application methods (including timing of application), and rotational crops.

All individual state regulations relating to dry bulk granular fertilizer blending, registration, labeling, and application are the responsibility of the individual and/or company selling the herbicide/fertilizer mixture.

Prepare the herbicide/fertilizer mixtures by using any closed drum, belt, ribbon, or other commonly used dry bulk fertilizer blender. Nozzles used to spray this product and this product's mixtures onto the fertilizer must be placed to provide uniform spray coverage. Care should be taken to aim the spray directly onto the fertilizer only and to avoid spraying the walls of the blender.

If the herbicide/fertilizer mixture is too wet, add a highly absorptive material, such as Agsorb® or Celatom MP-79®, or similar granular clay or diatomaceous earth materials, to obtain a dry, free-flowing mixture. Add absorptive materials only after the herbicide has been thoroughly blended into the fertilizer mixture. Best application results will be obtained by using a granule of 6/30 particle size or of a size similar to that of the fertilizer material being used. Generally, less than 2% by weight of absorptive material will be needed. Avoid using more than 5% absorptive material by weight.

Calculate amounts of this product, Atrazine 90, Atrazine 90 + Princep®, Balance® Pro, Princep, Metribuzin 75, or Sonalan® by the following formula:

$$\begin{array}{rclcl} 2000 & & \text{Pts./A of liquid} & & \text{Pts. of liquid or flowable} \\ \text{Lbs. of fertilizer per acre} & \times & \text{Or flowable product} & = & \text{Product per ton of fertilizer} \\ \\ 2000 & & \text{Lbs./A of dry} & & \text{Lbs. of dry product} \\ \text{Lbs. of fertilizer per acre} & \times & \text{product} & = & \text{Per ton of fertilizer} \end{array}$$

**Pneumatic (Compressed Air) Application (This Product Alone):** High humidity, high urea concentrations, low fertilizer use rates, and dusty fertilizer may cause fertilizer mixture to build up or plug the distributor head, air tubes, or nozzle deflector plates. To minimize buildup, premix this product with Exxon Aromatic 200 at a rate of 1.0 to 4.0 pints/gallons of this product. Aromatic 200 is a noncombustible/nonflammable petroleum product. Aromatic 200 may be used in either a fertilizer blender or through direct injection systems. Drying agents should not be used when using Aromatic 200.

**Restrictions:** (1) Mixtures of this product and Aromatic 200 must be used on dry fertilizer only. Poor results or crop injury may result if these mixtures are used in water or liquid fertilizer solutions for spraying applications. (2) When impregnating this product in a blender before application, a drier mixture can be attained by substituting a drying agent for Aromatic 200. The use of Agsorb FG or drying agents of 6/30 particle size are recommended. (3) Drying agents are not recommended for use with On-The-Go impregnation equipment.

*Precautions: To avoid potential for explosion, (1) Do not impregnate this product or this product's mixtures on ammonium nitrate, potassium nitrate, or sodium nitrate, either alone or in blends with other fertilizers. (2) Do not use this product or this product's mixtures on straight limestone, since absorption will not be achieved. Fertilizer blends containing limestone can be impregnated.*

**Application**

Apply 200 to 700 pounds of the herbicide/fertilizer mixture per acre. For best results, apply the mixture uniformly to the soil with properly calibrated equipment immediately after blending. Uniform application of the herbicide/fertilizer mixture is essential to prevent possible crop injury. Nonuniform application may also result in unsatisfactory weed control. In areas where conventional tillage is practiced, a shallow incorporation of the mixture into the soil may improve weed control. On fine- or medium-textured soils in areas where soil incorporation is not planned, i.e., reduced tillage situations or in some conventional till situations, make applications approximately 30 days before planting to allow moisture to move the herbicide/fertilizer mixture into the soil. On coarse-textured soils, make applications approximately 14 days prior to planting.

*Precaution: To avoid crop injury, do not use the herbicide/fertilizer mixture on crops where bedding occurs.*

**MIXING INSTRUCTIONS**

**This Product Alone:** Mix this product with water or fluid fertilizer and apply as a spray. Fill the spray tank one-half to three-quarters full with water or fluid fertilizer, add the proper amount of this product, then add the rest of the water or fluid fertilizer. Provide sufficient agitation during mixing and application to maintain a uniform emulsion.

**Tank Mixtures:** Fill the spray tank one-quarter full with water, and start agitation; add 2,4-D, Atrazine 90, Balan, Balance Pro, Rifle®, Basagran®, Butoxone®, Butyrac®, Canopy®, Caparol® 4L, Command®, Cotoran®, Eptam®, Liberty® Herbicide, Liberty® ATZ Herbicide, Lorox, Rifle® Plus, MSMA, Princep, Stealth, Pursuit®, Atrazine 90 + Princep, Scepter®, Metribuzin 75, Sonalan, or Treflan, and allow it to become dispersed; then add this product; then add Gramoxone Inteon, Landmaster® BW, or Touchdown or Makaze (glyphosate products) if these products are being used; and finally the rest of the water. For tank mixtures with Atrazine 90, Balance, Rifle, Canopy, Caparol 4L, Command, Cotoran\*, Eptam, Lorox, Rifle Plus, Princep, Stealth\*, Pursuit, Atrazine 90 + Princep, Scepter, Metribuzin 75, Sonalan, or Treflan, fluid fertilizers may replace all or part of the water as carrier, except in the Atrazine 90 postemergence and

the Rifle postemergence tank mixes. For tank mixtures with Atrazine 90, see additional mixing instructions on the Atrazine 90 label. For each mixture, check compatibility with fluid fertilizer, as described below, before mixing in spray tank. For all tank mixtures, agitate during mixing and application to maintain a uniform suspension.

\*See Special Mixing Instructions for tank mixtures with Cotaran and with Atrazine 90 or Princep + Stealth under the appropriate tank mixture section.

For directions on how to conduct a compatibility test, see the **Compatibility Test** section.

### COMPATIBILITY TEST

A jar test is recommended before tank mixing to ensure compatibility of this product with other pesticides. The following test assumes a spray volume of 25 gallons per acre. For other spray volumes, make appropriate changes in the ingredients.

**Restrictions:** Nitrogen solutions or complete fluid fertilizers may replace all or part of the water in the spray. Because liquid fertilizers vary, even within the same analysis, always check compatibility with pesticide(s) before use. Incompatibility of tank mixtures is more common with suspensions of fertilizer and pesticides.

#### Test Procedure

1. Add 1.0 pint of carrier (fertilizer or water) to each of two 1.0 quart jars with tight lids.  
**Restrictions:** Use the same source of water that will be used for the tank mix and conduct the test at the temperature the tank mix will be applied.
2. To one of the jars, add 1/4 teaspoon or 1.2 milliliters of a compatibility agent approved for this use, such as Compex® or Unite® (1/4 teaspoon is equivalent to 2.0 pints per 100 gallons spray). Shake or stir gently to mix.
3. To both jars, add the appropriate amount of pesticide(s) in their relative proportions based on recommended label rates. If more than one pesticide is used, add them separately with dry pesticides first, flowables next, and emulsifiable concentrates last. After each addition, shake or stir gently to thoroughly mix.
4. After adding all ingredients, put lids on and tighten, and invert each jar ten times to mix. Let the mixtures stand 15 to 30 minutes and then look for separation, large flakes, precipitates, gels, heavy oily film on the jar, or other signs of incompatibility. Determine if the compatibility agent is needed in the spray mixture by comparing the two jars. If either mixture separates, but can be remixed readily, the mixture can be sprayed as long as good agitation is used. If the mixtures are incompatible, test the following methods of improving compatibility: (a) Slurry the dry pesticide(s) in water before addition, or (b) add one-half of the compatibility agent to the fertilizer or water and the other half to the emulsifiable concentrate or flowable pesticide before addition to the mixture. If incompatibility is still observed, do not use the mixture.
5. After compatibility testing is complete, dispose of any pesticide wastes in accordance with the Storage and Disposal section in this label.

## CROP USE DIRECTIONS

### CORN (ALL TYPES) – THIS PRODUCT ALONE

Apply this product, either preplant surface, preplant incorporated, preemergence, postemergence, or lay-by, using the appropriate rate specified below.

#### PREPLANT SURFACE-APPLIED

Refer to instructions for use of this product alone under **Application Procedures**.

#### Fall Application for Spring Weed Control:

1. Apply after September 30 in ND, SD, MN, WI, and north of Route 30 in IA.
2. Apply after October 15 north of Route 91 in NE and south of Route 30 in IA.
3. Apply after October 31 north of Route 136 in IL.

In all locations, apply to crop stubble after harvest when the sustained soil temperature at a 4-inch depth is less than 55 °F and falling. In minimum-till or no-tillage systems on soils having greater than 2.5% organic matter, use 1.67 to 2.0 pints per acre on medium-textured and 2.0 pints per acre on fine-textured soils. Do not apply to frozen ground. A tillage operation may precede the application. A fall and/or a spring tillage may follow application, but do not exceed an incorporation depth greater than 2 to 3 inches. Minimize furrow and ridge formation in the tillage operations. **Restrictions:** If a spring application is made, the total rate of the fall plus spring applications must not exceed the maximum total rate for corn, or illegal residues may result.

**Fall Application for Italian Ryegrass Control:** This product may be applied for residual control of glyphosate-resistant Italian ryegrass (*Lolium multiflorum*). Apply this product at 1.33 to 1.67 pints per acre in the fall (September 1 to December 1) after harvest of the previous crop and prior to Italian ryegrass emergence. Use the lower of this product's rate for coarse-textured soils and the higher rate for fine-textured soils. A tillage operation may precede the application. Do not incorporate to a depth greater than 2 to 3 inches if tillage follows the application of this product. For fall applications after emergence of glyphosate-resistant Italian ryegrass, Gramoxone Inteon can be tank mixed with this product to control emerged ryegrass. Refer to the Gramoxone Inteon label for specific rates, application instructions, and restrictions. Other registered herbicides may be tank mixed with this product for control or improved control of other weeds present at the time of application.

*Precautions: 1) Do not apply this product to frozen ground. 2) If a spring application is made, the combined total amount of this product applied in the fall plus the spring must not exceed the maximum seasonal S-metolachlor rate for corn (3.9 pints per acre, depending on soil texture), or illegal residues may result.*

**Fall Application for Control or Suppression of Yellow Nutsedge (ID, OR, and WA only):** For preemergent control or suppression of yellow nutsedge the following spring, apply 1.33 pints per acre of this product in the fall after the harvest of the previous crop but before freeze-up. Fall applications of this product can be surface-applied or incorporated. **Restrictions:** (1) Make no more than one fall application per crop. (2)

Apply not more than 1.33 pints per acre in a single fall preplant application. (3) Do not apply to frozen ground. (4) If a spring application is made, the combined total amount of this product applied in the fall plus the spring must not exceed the maximum season S-metolachlor rate for corn (3.9 pints per acre, depending on soil texture), or illegal residues may result.

**EARLY PREPLANT APPLICATIONS**

Use on medium- and fine-textured soils with minimum-tillage or no-tillage systems in CO, IA, IL, IN, KS, KY, MN, MO, MT, ND, NE, SD, TN, WI, and WY. Apply two-thirds of the recommended rate of this product (1.67 pints per acre on medium soils and 2.0 pints per acre on fine soils) as a split treatment 30 to 45 days before planting and the remainder at planting. Applications made less than 30 days prior to planting may be as either a split or single treatment. Apply 1.33 pints per acre on coarse soils not more than 2 weeks before planting. **Restrictions:** If a spring application is made, the total rate of the fall plus spring application must not exceed the maximum total rate for corn, or illegal residues may result.

On medium- and fine-textured soils with minimum- or no-tillage systems in CT, DE, MA, MD, ME, MI, NH, NY, OH, PA, RI, VA, VT, and WV, preplant surface applications may be applied following the directions for use above. If the amount of rainfall results in unsatisfactory length of weed control following the earlier treatment, a postemergence application of an appropriately labeled broadleaf and/or grass weed herbicide may be used, i.e., Atrazine 90, Beacon®, Bicep Magnum®, Bicep II Magnum®, Exceed®, Accent®, Rifle, Basagran, bromoxynil (Brominal® or Broclean®), or 2,4-D. If the postemergence treatment includes the herbicide used preplant surface-applied, do not exceed the total labeled rate for corn on a given soil texture. Observe all directions for use, precautions, and limitations on the label of the postemergent herbicide.

**PREPLANT INCORPORATED OR PREEMERGENCE**

Follow instructions for use of this product alone under **Application Procedures**. On coarse soils, apply 1.0 to 1.33 pints per acre of this product if organic matter content is less than 3%, or 1.33 pints per acre if organic matter content is 3% or greater. On medium soils, apply 1.33 to 1.67 pints per acre of this product. On fine soils, apply 1.33 to 1.67 pints per acre of this product if organic matter content is less than 3%, or 1.67 to 2.0 pints per acre if organic matter content is 3% or greater.

**POSTEMERGENCE OR LAY-BY**

To extend the duration of weed control in corn, a maximum rate of 2.0 pints per acre of this product may be applied after corn emergence until the corn plants reach 40 inches in height, following any preplant surface-applied, preplant incorporated, or preemergence herbicide application, including this product. For best results, applications should be made to soil free of emerged weeds and directed toward the base of corn plants in excess of 5 inches tall. The total of this product's rate applied on corn during any one crop year should not exceed 3.9 pints per acre, depending on soil texture.

**Restrictions for all applications to corn:** To avoid possible illegal residues, (1) do not graze or feed forage from treated areas for 30 days following application and (2) do not harvest sweet corn ears from treated areas for 30 days following application.

**PROBLEM WEED CONTROL DIRECTIONS**

**Shattercane, Wild Proso Millet, Woolly Cupgrass, and Eclipta - Partial Control:** For more consistent partial control of shattercane, wild proso millet, woolly cupgrass, or eclipta, apply 1.0 to 1.33 pints per acre of this product preplant incorporated followed by 1.0 to 1.33 pints per acre of this product preemergence. Make the preemergence application during or after planting, but before weeds and corn emerge. Apply the 1.33 pints per acre rate of this product when a heavy infestation of shattercane, wild proso millet, woolly cupgrass, or eclipta is expected. A shallow cultivation may be needed to control any late emerging weeds.

**Woolly Cupgrass and Wild Proso Millet Control Program:** For control of these species, use the following 3-step program: (1) Apply this product early preplant, preplant incorporated, or preemergence at 1.67 pints per acre on medium soils and 2.0 pints per acre on fine-textured soils, up to the maximum label rate. Lightly incorporate with a rotary hoe if rainfall does not occur within 5 to 7 days; (2) Apply a postemergence tank mix of Beacon at 0.38 ounce per acre or Exceed at 1 packet per 4 acres plus Accent SP at 0.33 ounce per acre plus 1.0 quart of crop oil concentrate plus 1.0 gallon per acre of 28% nitrogen, or the equivalent amount of ammonium sulfate, when grasses are 2 to 3 inches tall and the corn is at least 4 inches tall; and (3) Cultivate 14 to 21 days after the postemergence application.

**Restrictions:** (1) Do not apply more than the labeled application rate for a given soil texture per year, either as a single or split treatment, or illegal residues may result. (2) In corn, use up to 2.5 pints per acre of this product preplant surface, preplant incorporated, or preemergence treatment on soils having an organic matter content between 6% and 20%. (3) In the event of escape of annual weeds following a preplant surface, preplant incorporated, or preemergence treatment of this product, follow with a postemergence application of an appropriately labeled broadleaf and/or grass weed herbicide, i.e., Atrazine 90, Beacon, Bicep II Magnum, Exceed, Accent, Rifle, Basagran, Brominal, Broclean, or 2,4-D. If the postemergence treatment includes the herbicide used in the earlier treatment, do not exceed the total labeled rate for corn on a given soil texture. (4) Brominal or Broclean may be applied postemergence alone or in tank mix combination with Atrazine 90. Do not exceed 1.2 pounds active ingredient per acre of Atrazine 90 in tank mix combination with Brominal or Broclean postemergence. Refer to the Atrazine 90, Brominal, and Broclean labels for specific rates and precautions. (5) Do not use this product on peat or muck soils.

**CORN – THIS PRODUCT'S COMBINATIONS**

This product in any tank mixture for corn may be applied in water or fluid fertilizer before corn emerges. Use only water as a carrier when this product is applied after corn emergence.

**Restrictions:** For all applications to corn, (1) do not graze or feed forage from treated areas for 30 days following application, and (2) do not harvest sweet corn ears from treated areas for 30 days following application or possible illegal residues may result.

**IMPORTANT: FOR TANK MIXTURES WITH ATRAZINE 90 (OR OTHER BRANDS OF ATRAZINE) - IF APPLYING THIS PRODUCT IN TANK MIXTURE WITH ATRAZINE 90, ALL THE RESTRICTIONS AND RATE LIMITATIONS ON THE ATRAZINE 90 LABEL MUST BE FOLLOWED IF MORE RESTRICTIVE/PROTECTIVE THAN THOSE ON THIS LABEL. IN ADDITION, IF ATRAZINE 90 IS/MUST BE APPLIED AT RATES LOWER THAN THOSE RECOMMENDED ON THIS LABEL, BROADLEAF WEED CONTROL MAY BE AFFECTED. REFER TO THE ATRAZINE 90 LABEL FOR WEEDS CONTROLLED AT THE REDUCED RATES.**



Table 2: This Product's Tank Mixtures for Corn - Additional Weeds Controlled and Special Instructions

	This Product + Atrazine 90 and/or Princep (Preplant Surface, PPI, PRE)	This Product + Atrazine 90 (Post)	This Product + Rifle (Field Corn)	This Product + Atrazine 90 + Lorex	This Product + Atrazine 90 or Princep + Stealth	This Product + Rifle Plus	This Product + Balance Pro
Special Mixing Instructions					1		
Comments	2,3,4,5,7,8	2,3,4,5		2,3,4,5,6	2,3,4,5	7	2,3,7
Browntop panicum	X			X	X		X
Cocklebur	X	O	O	X	X		O-X
Common purslane	X			X	X	X	X
Hairy nightshade	X			X	X		X
Jimsonweed		X	O			X	X
Kochia		X				X	X
Lambsquarters	X	X	X	X	X	X	X
Morningglory	X	O	O	X	X		X
Mustard		X				X	X
Pigweed				X	X	X	X
Prickly sida		X					
Ragweed	X	X	X	X	X	X	X
Smartweed	X	X	X	X	X	X	X
Velvetleaf	X	X	O	X	X	O-X	O-X

X = control; O = partial control; O-X = partial to full control depending on ratio of products used or on weed population

25  
7.8

**Comments**

1. Special Mixing Instructions for this product + Atrazine 90 or Princep and Stealth

(1) Fill the spray tank 1/4 full with water or fluid fertilizer and start agitation. (2) To aid compatibility, add a compatibility agent, such as Unite or X-77®, at 4.0 pints per 100 gallons of spray mixture. (3) Then add the Atrazine 90 or Princep and allow it to become dispersed. (4) Then add this product and Prowi4E. (5) Add the rest of the water.

2. Although a single formulation for Atrazine 90 or Princep is listed in the rate tables, other formulations may be substituted, using the following formula:

- 1.0 lb. of Atrazine 90 or Princep® Caliber 90® = 1.8 pts. of Atrazine 90 or Princep 4L.

3. Although directions specify Atrazine 90 formulations in tank mixture with this product, other brands of atrazine may be used. Follow the rates, recommendations, and limitations on the atrazine label.

4. See additional mixing instructions on the Atrazine 90 label.

5. *Precaution: Do not exceed a total of 2.5 pounds active ingredient of atrazine per acre per year. However, certain states may have established rate limitations for atrazine within specific geographical areas. Consult your state lead pesticide control agency for additional information. It is a violation of this label to deviate from state use regulations.*

6. Other formulations of Lorox can be used: 1.0 pound of Lorox DF = 1.0 pint of Lorox L.

7. In Minimum-Tillage and No-Tillage systems, mix with Gramoxone Inteon for control of most emerged annual weeds and suppression of perennial weeds; or with Landmaster BW for suppression of emerged field bindweed and control or suppression of annual weeds; or with Touchdown brands or Makaze brands for control of most emerged annual and perennial weeds.

8. Refer to the **Corn – This Product Combinations - Tank Mixture with Atrazine 90; or Atrazine 90 + 2,4-D; or Atrazine 90 + 2,4-D + Rifle for Minimum-Tillage or No-Tillage Systems** sections for specific directions for 2,4-D or Rifle burndown combinations in Minimum-Tillage and No-Tillage systems.

This product in any tank mixture for corn may be applied in water or fluid fertilizer, except as noted.

**Restrictions:** (1) For all applications to corn, do not graze or feed forage from treated areas for 30 days following application and do not harvest sweet corn ears from treated

areas for 30 days following application, or possible illegal residues may result. (2) When applying this product in tank mixture with Atrazine 90, do not exceed a total of 2.5 pounds active ingredient of atrazine per acre per year. (3) Refer to **Corn (All Types) – This Product Alone** for recommended sequential postemergence treatments if escape weeds develop.

**TANK MIXTURE WITH ATRAZINE 90 OR PRINCEP, OR ATRAZINE 90 + PRINCEP PREPLANT SURFACE, PREPLANT INCORPORATED, OR PREEMERGENCE**

In addition to the weeds controlled by this product alone, this product + Atrazine 90 or Princep, or this product + Atrazine 90 + Princep, applied preplant surface, preplant incorporated, or preemergence, also controls the following weeds: browntop panicum, cocklebur, common purslane, hairy nightshade, lambsquarters, morningglory, ragweed, smartweed, and velvetleaf.

Apply this product + Atrazine 90 or Princep, or this product + Atrazine 90 + Princep either preplant surface, preplant incorporated, or preemergence.

**Preplant Surface-Applied:** Follow instructions for use of this product alone under **Application Procedures** and under application instructions for this product alone on corn. Apply this product + Atrazine 90 or Princep, or this product + Atrazine 90 + Princep on medium soils (1.67 pts/A of this product + 3.2 to 4.0 pts/A of Atrazine 90 or Princep 4L, or Atrazine 90 + Princep 4L combined) and on fine soils (1.67 to 2.0 pts/A of this product + 4.0 pts/A of Atrazine 90 or 4.0 to 5.0 pts/A of Princep 4L or Atrazine 90 + Princep 4L combined) in minimum-tillage and no-tillage systems in CO, IA, IL, IN, KS, KY, MN, MO, MT, ND, NE, SD, TN, WI, and WY. Apply the tank mixtures as a split or single treatment in those states and as indicated in the **This Product Alone Preplant Surface-Applied** section of the label for corn. On coarse soils, apply 1.33 pints per acre of this product and 3.2 pints per acre of Atrazine 90 or Princep 4L, or Atrazine 90 + Princep 4L combined.

**Preplant Incorporated or Preemergence:** Follow instructions for use of this product alone under **Application Procedures**. Apply this product + Atrazine 90 or Princep, or this product + Atrazine 90 + Princep, using the appropriate rates from Table 3.

**Restrictions:** Do not apply more than the labeled rate for a given soil texture per year, either as a split or single treatment, or illegal residues may result.

**Shattercane and Wild Proso Millet - Partial Control**

For more consistent partial control of shattercane or wild proso millet where this product is applied in tank mixture or sequentially with other registered corn herbicides, the following applications may be made:

1. Apply 1.0 to 1.33 pints per acre of this product + 2.0 pounds active ingredient per acre of Atrazine 90 or Princep preplant incorporated, followed by 1.0 to 1.33 pints

- per acre of this product preemergence. Make the preemergence application during or after planting, but before weeds and corn emerge.
2. Apply this product at 1.33 pints per acre alone or in tank mix combination with up to 2.0 pounds active ingredient per acre of Atrazine 90, or Princep, preplant incorporated. Do not exceed the total rate of triazine herbicide recommended in combination with this product for corn grown on a given soil texture. Follow with a post-directed application of Evik® 80W at 2.5 pounds per acre. Refer to the Evik 80W label for specific directions for the post-directed application.
  3. Apply Eradicane® (or equivalent EPTC or butylate formulations) at labeled rates preplant incorporated, followed by a preemergence application of this product at 1.0 to 1.33 pints per acre. Do not use Eradicane on soils where rapid degradation has been shown to occur. Make the preemergence application during or after planting, but before weeds and corn emerge.

*Precaution: When following the application regimes in numbers 1 through 3 above, a shallow cultivation may be needed after the preemergence or postemergence application to help control any late emerging shattercane or wild proso millet plants.*

**Restrictions:** Do not exceed a total of 1.9 pound active ingredient per acre (2.0 pts of this product) in the preplant incorporated plus preemergence application on soils with less than 6% organic matter, or crop injury may result.

**Table 3: This Product + Atrazine 90 or Princep, or This Product + Atrazine 90 + Princep, Preplant Incorporated or Preemergence - Corn (All Types)**

	Broadcast Rates Per Acre			
	Less than 3% Organic Matter		3% Organic Matter or Greater	
Soil Texture	This Product + Atrazine 90* or Princep Caliber 90*	OR	This Product + Atrazine 90** or Princep Caliber 90**	This Product + Atrazine 90** or Princep Caliber 90**
<b>COARSE</b>	0.8 to 1.0 pt + 1.1 to 2.2 lbs		0.8 to 1.0 pt + 0.6 to 1.1 lbs OR 1.0 pt + 1.3 to 2.2 lbs	1.0 pt + 0.7 to 1.1 lbs OR 1.0 pt + 0.7 to 1.1 lbs
<b>MEDIUM</b>	1.0 to 1.33 pts + 1.3 to 2.2 lbs		1.0 to 1.33 pts + 0.7 to 1.1 lbs OR 1.33 pts + 1.8 to 2.2 lbs	1.33 pts + 0.9 to 1.1 lbs OR 1.33 pts + 0.9 to 1.1 lbs
<b>FINE</b>	1.33 pts + 1.8 to 2.2 lbs		1.33 pts + 0.9 to 1.1 lbs OR 1.8 to 2.2 lbs	1.33 to 1.67 pts + 0.9 to 1.1 lbs*** OR 1.67 to 2.2 lbs + 0.9 to 1.1 lbs***
Muck or Peat (soils with more than 20% organic matter)	DO NOT USE			

\*Use Princep in preference to Atrazine 90 when heavy infestations of crabgrass or fall panicum are expected. On soils having between 6% and 20% organic matter, this product may be used up to 2.33 pints per acre in tank mix combination with 2.2 pounds per acre of Atrazine 90, or equivalent rates of Atrazine 90. Refer to the Atrazine 90 label for weeds controlled at this reduced rate.

\*\*When using the tank mixture of this product + Atrazine 90 + Princep Caliber 90, use equal rates of each as shown when heavy broadleaf weed infestations are expected. When heavy infestations of crabgrass or fall panicum are expected, use a 1:2 ratio of Atrazine 90 + Princep instead of the 1:1 ratio given in Table 3. (Example: Total Atrazine 90 + Princep Caliber 90 = 1.2 lbs/A, use 0.4 lb of Atrazine 90 + 0.8 lb of Princep, respectively.) Refer to Comment No. 2 following Table 2 for Atrazine 90 and Princep 4L conversions.

\*\*\*For cocklebur, yellow nutsedge, and velvetleaf control on fine-textured soils above 3% organic matter, apply 2.25 pounds per acre of Atrazine 90 or the same total amount of Atrazine 90 + Princep with 1.33 to 1.67 pints per acre of this product.

**TANK MIXTURE WITH ATRAZINE 90 - POSTEMERGENCE**

Weeds Controlled		Weeds Partially Controlled	
barnyardgrass (watergrass)	green foxtail	pigweed	cocklebur
crabgrass	yellow foxtail	prickly sida	morningglory
crowfootgrass	jimsonweed	purslane	yellow nutsedge
fall panicum	kochia	ragweed	
giant foxtail	lambsquarters	smartweed	
	mustard	velvetleaf	

Apply 1.0 pint per acre of this product + 1.3 pounds per acre of Atrazine 90\* on coarse soils, 1.33 pints per acre of this product + 1.8 pounds per acre of Atrazine 90 on medium soils, or 1.33 to 1.67 pints per acre of this product + 1.8 to 2.2 pounds per acre\*\* of Atrazine 90 on fine soils. Apply this tank mixture before grass and broadleaf weeds pass the 2-leaf stage and before corn exceeds 5 inches in height. Application to weeds larger than the 2-leaf stage will generally result in unsatisfactory control.

**Lay-by:** Apply to corn plants not more than 12 inches tall. Applications to corn in excess of 5 inches should be directed to the base of the corn plants; whereas, applications to corn plants less than 5 inches tall may be made over the top. Occasionally, some corn leaf burn may result, but this should not affect later growth or yield. Do not apply this postemergence tank mixture in fluid fertilizer, or severe crop injury may occur.

\*When using Atrazine 90, use equivalent rates. One lb. of Atrazine 90 = 1.8 pts. Of

\*\*For better control of cocklebur, morningglory, velvetleaf, and yellow nutsedge on fine-textured soils above 3% organic matter, apply 2.2 pounds per acre of Atrazine 90 with 1.33 to 1.67 pints per acre of this product.

Tank mixtures of this product + Atrazine 90 may be applied following use of any registered preplant surface-applied, preplant incorporated, or preemergence corn herbicide, including this product + Atrazine 90.

**Restrictions:** The total of this product's rate should not exceed 3.9 pints, nor the Atrazine 90 rate more than 2.5 pounds active ingredient per acre during any one crop year, or illegal residues may result. Refer to the Atrazine 90 label for geographic, soil-texture, and rotational restrictions.

**TANK MIXTURE WITH RIFLE**

**Preemergence:** Use this tank mixture only on field corn which is flat-planted (no furrows) in CO, IA, IL, IN, KS, MN, NE, OH, SD, and WI.

In addition to the weeds controlled by this product, this product + Rifle, applied preemergence, also controls lambsquarters, ragweed, smartweed, cocklebur\*, jimsonweed\*, morningglory\*, and velvetleaf\*.

\*Partially controlled.

Apply this product + Rifle preemergence. Broadcast 1.0 pint per acre of Rifle with 1.33 pints per acre of this product on medium soils, or with 1.33 to 1.67 pints per acre of this product on fine soils. Do not apply on coarse soils or on soils with less than 2.5% organic matter. Apply this tank mixture to the soil surface at planting or after planting, but before corn emerges. Plant corn at least 1.5 inches deep and apply behind planting equipment, avoiding incorporation by the planter wheel or other seed covering device. Do not incorporate before corn emergence. If it is necessary to rotary hoe to break the soil crust, do not disturb the soil more than 1/2 inch deep.

*Precautions: (1) Avoid drift to sensitive nontarget plants, such as soybeans, during application, or injury may occur. (2) Do not apply with aircraft.*

**Postemergence for Control of Pigweed (Mid-Atlantic states, including DE, MD, PA, VA, and WV):** Apply 1.0 to 1.5 pints per acre of this product + 0.5 to 1.0 pint per acre of Rifle or Strut® by ground equipment when pigweed plants are less than 3 inches tall and before corn exceeds 5 inches in height in a minimum of 20.0 gallons of spray per acre. Use the lower rate on coarse-textured and low organic matter soils. Use the higher rate on fine-textured and high organic matter soils.

*Precautions: (1) Avoid drift to sensitive nontarget plants, such as soybeans, during application, or injury may occur. (2) Do not apply with aircraft.*

**TANK MIXTURE WITH ATRAZINE 90 OR PRINCEP + STEALTH FOR PROLONGED CONTROL OF LAMBSQUARTERS AND PIGWEED IN FIELD CORN ONLY (NORTHEAST U.S., INCLUDING MI, IN, KY, AND STATES EAST OF THESE)**

For prolonged control of lambsquarters and pigweed, in addition to a broad spectrum of annual broadleaf and grass weeds, this product in tank mix combination with Atrazine

90\* or Princep + Stealth may be applied after planting, but before corn or weeds emerge. Apply by ground equipment in a minimum of 10.0 gallons of water or 20.0 gallons of liquid fertilizer. Apply by air in a minimum of 5.0 gallons of water. Refer to Table 3 of this label for rates of this product, Atrazine 90 or Princep to be applied. Apply Stealth according to the rates in Table 4.

\*Do not apply this product in tank mix combination with AAtrex 80W + Stealth, as this combination is not compatible. Other Atrazine formulations may be used.

**Mixing Instructions:** See Comment No. 1 following Table 2.

Soil Texture	Percent Organic Matter in Soil		
	Less than 1.5%	1.5 to 3%	Over 3%
<b>COARSE</b>	1.5 to 2.0 pts	2.0 pts	3.0 pts
<b>MEDIUM</b>	2.0 pts	3.0 pts	3.0 pts
<b>FINE</b>	2.0 pts	3.0 pts	3.0 pts

Observe all directions for use, precautions, and limitations on the respective product labels when applying these products in tank mix combination. Refer to the Stealth label for replanting instructions in the event of crop loss.

**TANK MIXTURE WITH ATRAZINE 90 OR PRINCEP, OR ATRAZINE 90 + PRINCEP WITH GRAMOXONE INTEON, LANDMASTER BW, TOUCHDOWN, OR MAKAZE FOR MINIMUM-TILLAGE OR NO-TILLAGE SYSTEMS**

In minimum-tillage or no-tillage systems where corn is planted directly into a cover crop, stale seedbed, established sod, or previous crop residues, the contact herbicides Gramoxone Inteon, Landmaster BW, Touchdown brands, or Makaze brands should be tank mixed with this product + Atrazine 90, this product + Princep, or this product + Atrazine 90 + Princep. See Comment No. 7 following Table 2. This product, this product + Atrazine 90 or Princep, or this product + Atrazine 90 + Princep portion of the tank mixture provides preemergence control of the weeds listed on this label in the tank mixture section for **This Product, This Product + Atrazine 90 or Princep, or This Product + Atrazine 90 + Princep - Preplant Surface, Preplant Incorporated, or Preemergence.**

**Application:** Apply before, during, or after planting, but before the corn emerges. Add Gramoxone Inteon, Landmaster BW, Touchdown brands, or Makaze brands and apply as directed on the product label.

**Gramoxone Inteon:** Apply as directed on the product label. This treatment will not control weeds taller than 6 inches.

**Restrictions:** Do not apply combinations containing Gramoxone Inteon in suspension type liquid fertilizers, as the activity of paraquat will be reduced.



**Landmaster BW:** 27.0 to 54.0 ounces per acre depending on weed species and size. See the Landmaster BW label for weeds controlled, recommended rates for specific weeds, and other information concerning use.

**Touchdown Brands or Makaze Brands:** See the Touchdown brand or Makaze brand label for weeds controlled, recommended rates, and other use directions.

Apply in 20.0 to 60.0 gallons of water or fluid fertilizer per acre with ground equipment.

On *coarse soils*, apply 1.0 pint per acre of this product with 1.3 pounds of Atrazine 90\* or Princep Caliber 90\*, or with 0.7 pound of Atrazine 90\*\* + 0.7 pound of Princep Caliber 90\*\*. On *medium soils*, apply 1.33 pints per acre of this product with 1.8 pounds of Atrazine 90 or Princep Caliber 90, or with 0.9 pound of Atrazine 90 + 0.9 pound of Princep Caliber 90. On *fine soils*\*\*\*, apply 1.33 to 1.67 pints per acre of this product with 1.8 to 2.2 pounds of Atrazine 90 or Princep Caliber 90, or with 0.9 to 1.1 pounds of Atrazine 90 + 0.9 to 1.1 pounds of Princep Caliber 90.

\* Use Princep in preference to Atrazine 90 when heavy infestations of crabgrass or fall panicum are expected.

\*\* When using the tank mixture of this product + Atrazine 90 + Princep Caliber 90, use equal rates of Atrazine 90 and Princep as shown when heavy broadleaf weed infestations are expected. When heavy infestations of crabgrass or fall panicum are expected, use a 1:2 ratio of Atrazine 90 + Princep instead of the 1:1 ratio given. (Example: Total Atrazine 90 + Princep Caliber 90 = 1.8 lbs/A, use 0.6 lb of Atrazine 90 + 1.2 lbs of Princep, respectively.) Refer to Comment No. 2 following Table 2 for Atrazine 90 and Princep 4L conversions.

\*\*\* For cocklebur, yellow nutsedge, and velvetleaf control on *fine-textured soils* above 3% organic matter, apply 2.25 pounds per acre of Atrazine 90 or the same total amount of Atrazine 90 + Princep, with 1.33 to 1.67 pints per acre of this product.

**TANK MIXTURE WITH ATRAZINE 90, OR ATRAZINE 90 + 2,4-D; OR ATRAZINE 90 + 2,4-D + RIFLE FOR MINIMUM-TILLAGE OR NO-TILLAGE SYSTEMS**

In minimum-tillage or no-tillage systems where corn is planted directly into a cover crop, stale seedbed, established sod, or previous crop residues, this product applied in combination with Atrazine 90 will kill most emerged small annual weeds. Apply this product + Atrazine 90 before, during, or after planting, but before corn emerges, according to the rates in Table 3.

Where heavy crop residues exist, add 0.8 to 1.6 pints per acre of an appropriately labeled 3.8 pounds active ingredient/gallons of 2,4-D amine (such as Weedar 64, Weedar 64A, DMA-4 Herbicide, Weedone® 638 or Formula 40) to the spray tank last and apply in a minimum of 25.0 gallons of carrier per acre.

As carriers, nitrogen solutions and complete liquid fertilizers, applied before corn emergence, enhance burndown of existing weeds, and therefore, are recommended instead of water. Add X-77 surfactant at 1.0 to 2.0 quarts per 100 gallons of diluted

spray, or another appropriate surfactant at its recommended rate, or add crop oil concentrate plus 28% liquid nitrogen (or equivalent). Apply before weeds exceed 3 inches in height. If alfalfa is present, add Rifle to the spray mixture at 0.33 to 0.5 pint per acre and apply before alfalfa exceeds 6 inches in height.

For fields with existing sod grasses (e.g., bromegrass, orchardgrass, rye, or timothy), when existing weeds exceed 3 inches in height or when very dry conditions exist, add Gramoxone Inteon at the rate indicated on the product label in place of or in addition to 2,4-D, as indicated above. Do not apply Gramoxone Inteon in suspension-type liquid fertilizer. Observe all directions for use, precautions, and limitations on the respective product labels when applying these products in tank mix combination.

**TANK MIXTURE WITH RIFLE PLUS IN CONSERVATION TILLAGE- FIELD AND SILAGE CORN**

In conservation tillage systems where corn is planted directly into a cover crop or previous crop residue, this product + Rifle Plus will kill most emerged small annual weeds. Apply this product + Rifle Plus before, during, or after planting, but before corn emergence on medium and fine soils with greater than 2.5% organic matter. For fields with existing vegetation exceeding 3 inches in height or when very dry conditions exist, add Gramoxone Inteon at its standard rate. This product + Rifle Plus may be applied postemergence to corn less than 3 inches tall and before weedy grasses exceed the 2-leaf stage.

As carriers, nitrogen solutions and complete liquid fertilizers, applied before corn emergence, enhance burndown of existing weeds. Do not apply Gramoxone Inteon in suspension-type liquid fertilizer or use on emerged corn.

Refer to the Rifle Plus label and follow all directions, limitations, precautions, and information regarding application and use in corn.

**TANK MIXTURE WITH BALANCE PRO - FIELD CORN ONLY**

This product and Balance PRO have a complementary response and weed control profile which allows various tank mix rate combinations to be considered. The addition of Balance PRO will improve the control of certain problem weeds, including Texas panicum, woolly cupgrass, and wild proso millet. This product improves both the duration and spectrum of annual grass and small-seeded broadleaf weed control, in particular foxtails (yellow foxtail) and witchgrass, and yellow nutsedge.

To reduce the risk of an adverse crop response, the Balance PRO label does not allow applications to *coarse-textured soils* with less than 1.5% organic matter and warns about applications to all soils with less than 1.5% organic matter or with pH greater than 7.5, as well as applications made to areas in fields with clay knolls, eroded hillsides, and exposed subsoil. This product has no adverse crop response warnings or use restrictions.

Listed below are compensating rate options for combinations of this product and Balance PRO, i.e., higher rates of this product are combined with lower rates of Balance PRO and vice versa. Select a rate option for this product plus Balance PRO by weighing the intensity of problem weed pressure (population presence and density) and your acceptance for risk of an adverse crop response. For example, where Texas panicum, woolly cupgrass, or wild proso millet is a primary target weed, use a tank-mix combination with a higher Balance PRO rate for the given soil type.

Where your acceptance of an adverse crop response risk is low and/or a more general weed spectrum is targeted (especially yellow foxtail, witchgrass, or yellow nutsedge), use a tank-mix combination with a higher of this product's rate for the given soil type. Where a target weed is listed as controlled on both product labels, a tank-mix combination option including intermediate rates of both products may be used. Where a target weed is listed as controlled on only one product label, do not apply a rate of that product below what is recommended for that weed on the individual product label, or unacceptable control may result. Follow all other directions for use, rate limitations, precautions, and restrictions on both this product and Balance PRO product labels.

**For coarse-textured soils:** Where 1.5 or 1.88 ounces per acre of Balance PRO is used, 1.0 to 1.33 pints per acre of this product may be applied. Do not use Balance PRO on *coarse-textured soils* with less than 1.5% organic matter.

**For medium-textured soils:** Where 1.5 ounces per acre of Balance PRO is used, rates as low as 1.33 pints per acre of this product may be applied. Where 1.88 or 2.25 ounces per acre of Balance PRO is used, rates as low as 1.0 pint per acre of this product may be applied. This product can be used in combinations with Balance PRO at rates up to 1.67 pints per acre on *medium-textured soils*.

**For fine-textured soils:** Where 1.5 ounce per acre of Balance PRO is used, rates as low as 1.33 pints per acre of this product may be applied if the soil organic matter is less than 3%; if the soil organic matter is 3% or greater, 1.67 pints per acre of this product should be applied. Where 1.88 or 2.25 ounces per acre of Balance PRO is used, rates as low as 1.33 pints per acre of this product may be applied. Where 3.0 ounces per acre or more of Balance PRO is used, rates as low as 1.0 pint per acre of this product may be applied. This product can be used in combinations with Balance PRO at rates up to 2.0 pints per acre on *fine-textured soils* if the organic matter is 3% or greater.

**TANK MIXTURES FOR POSTEMERGENCE SALVAGE WEED CONTROL IN FIELD CORN ONLY**

For postemergence control of weeds in specific types of field corn, this product's combinations listed below may be used. Full season weed control from early preplant, preplant incorporated, or preemergence treatments can lead to maximum yield potential under competition-free conditions. However, if control of emerged weeds is needed, a postemergence program listed below can be applied to provide residual control for the remainder of the season.

**Restrictions:** (1) Follow all label directions, instructions, precautions, and limitations for each product used. (2) Do not use fluid fertilizer with these mixtures or corn injury may occur. (3) For each tank mixture with this product, apply only to the specific field corn type specified on the tank mix product label. (4) In-row weed control may be reduced because of lack of coverage when applied to corn over 4 inches tall.

**This Product + Liberty Herbicide or Ignite® 280 SL Herbicide: Postemergence Use in Libertylink® Corn or Corn Warranted by Bayer CropScience as Being Tolerant to Liberty Herbicide or Ignite 280 SL Herbicide**

These tank mixtures can be applied postemergence to weeds and corn from seed designated as Libertylink or corn warranted by Bayer CropScience as being tolerant to Liberty Herbicide or Ignite 280 SL Herbicide. Liberty provides postemergence control of a broad spectrum of grass and broadleaf weeds and this product provides residual control of grasses and certain broadleaf weeds listed in the label section **This Product Applied Alone - Weeds Controlled**. Refer to section **This Product Alone - Preplant Incorporated or Preemergence** and use the minimum rate per soil texture and organic matter classification for season-long residual control from this tank mix combination with Liberty Herbicide or Ignite 280 SL Herbicide. Refer to the Liberty Herbicide or Ignite 280 SL Herbicide label for the postemergence application rates according to weed species and their maximum height at the time of postemergence application. Where multiple weed species are present, use the highest rate recommended to control the species and growth stages present.

Follow all applicable use directions, limitations, precautions, and information regarding application to corn on this product and Liberty Herbicide or Ignite 280 SL Herbicide labels. Where difficult species and/or severe weed populations are expected, use the maximum rate where rate ranges are listed.

**This Product + Touchdown Brands or Makaze Brands for Postemergence Application to Glyphosate-Tolerant Corn (e.g., Roundup Ready® or Agrisure® GT)**

The tank mixture of this product + Touchdown brands or Makaze brands can be applied postemergence to weeds and to corn designated as glyphosate-tolerant. Application may be applied postemergence to glyphosate-tolerant corn from emergence until corn reaches 30 inches tall or the V8 stage (8 leaves with collars), whichever comes first. This mixture will provide postemergence control of weed species on the Touchdown brand or Makaze brand label and residual control of weed species on this product's label. Use the minimum of this product's rate postemergence with Touchdown or Makaze in glyphosate-tolerant corn as specified in the **Corn - This Product Alone - Preplant Incorporated or Preemergence** section of this label according to soil texture and organic matter. Refer to the Touchdown brand or Makaze brand label and follow appropriate use directions, application procedures, precautions, and limitations. Refer to the Touchdown brand or Makaze brand label for directions for control of problem species. Where difficult species and/or severe weed populations are expected, use the maximum rate where rate ranges are listed.

**This product + Touchdown Brands or Makaze Brands + Atrazine 90 for Postemergence Application to Glyphosate-Tolerant Corn (e.g., Roundup Ready or Agrisure GT)**

The tank mixture of this product + Atrazine 90 + Touchdown brands or Makaze brands can be applied postemergence to weeds and to corn designated as glyphosate-tolerant. Application may be applied postemergence to glyphosate-tolerant corn from emergence up to 12 inches in height. This mixture will provide postemergence control of weed species on the Touchdown brand or Makaze brand label and residual control of weed species on this product + Atrazine 90 label. Use the minimum of this product + Atrazine 90 rate postemergence with Touchdown or Makaze in glyphosate-tolerant corn as specified in the **Corn – This Product Combinations - Tank Mixture With Atrazine 90 or Princep, or Atrazine 90 + Princep - Preplant Incorporated or Preemergence** section and Table 3 of this label according to soil texture and organic matter.

Follow all applicable use directions, limitations, precautions, and information regarding application to corn on this product, Atrazine 90, and Touchdown brand or Makaze brand labels for application to glyphosate-tolerant corn. Where difficult species and/or severe weed populations are expected, use the maximum rate where rate ranges are listed.

**COTTON – THIS PRODUCT ALONE**

**Application:** Apply this product preemergence only in Area 1\* at the rate of 0.5 to 1.0 pint per acre on sandy loams, 0.66 to 1.33 pints per acre on *medium soils*, or 1.0 - 1.33 pints per acre on *fine soils*. Apply this product preplant incorporated or preemergence in Area 2\*\* at 1.0 pint per acre on sandy loams, 1.0 to 1.33 pints per acre on *medium soils*, or 1.33 pints per acre on *fine soils*. Apply this product postemergence to cotton and preemergence to weeds at 0.5 to 1.33 pints per acre, according to the state limitations in the following Postemergence section.

\*Area 1 = AR, KS, LA, MS, TN, and Bootheel of MO

\*\*Area 2 = NM, OK, and TX

**Fall Application for Italian Ryegrass Control:** This product may be applied for residual control of glyphosate-resistant Italian ryegrass (*Lolium multiflorum*). Apply this product at 1.33 to 1.67 pints per acre in the fall (September 1 to December 1) after harvest of the previous crop and prior to Italian ryegrass emergence. Use the lower of this product's rate for coarse-textured soils and the higher rate for fine-textured soils. A tillage operation may precede the application. Do not incorporate to a depth greater than 2 to 3 inches if tillage follows the application of this product. For fall applications after emergence of glyphosate-resistant Italian ryegrass, Gramoxone Inteon can be tank mixed with this product to control emerged ryegrass. Refer to the Gramoxone Inteon label for specific rates, application instructions, and restrictions. Other registered herbicides may be tank mixed with this product for control or improved control of other weeds present at the time of application. *Precautions: (1) Do not apply this product to frozen ground. (2) If a spring application is made, the combined total amount of this*

product applied in the fall plus the spring must not exceed the maximum seasonal S-metolachlor rate for cotton (2.6 pts/A, depending on soil texture), or illegal residues may result.

**Preplant Incorporated (NM, OK, and TX Only):** Apply to the soil and incorporate into the top inch of soil immediately before planting, at planting, or after planting, but before crop or weeds emerge. Use a rolling cultivator or similar implement to uniformly incorporate not more than 1 inch deep. Use a preplant incorporated application if furrow irrigation is used or when a period of dry weather after application is expected. Where furrow irrigation is used, wet the top of the bed for best results. If the crop is to be planted on beds, apply and incorporate after bed formation. Cotton should be planted below the zone of incorporation; i.e., at least 1 inch on *fine soils* and 1.5 inches on *coarse* and *medium soils*. If incorporated prior to planting, use a planter that will result in a minimum of soil disturbance.

**Restrictions:** For best control of yellow nutsedge and suppression of seedling johnsongrass, apply this product preplant incorporated at the maximum rate for the soil texture, whether applied alone or mixed with Caparol 4L.

**Preemergence:** Apply to the soil surface at planting or after planting, but before weeds or crop emerge.

**Postemergence:** Apply this product broadcast over the top or directed to the soil surface according to the rate limitations listed below by state. Over-the-top postemergence application may be made not later than 100 days before harvest, and directed-postemergence application may be made not later than 80 days before harvest. Application before weeds emerge or after clean cultivation to remove existing weeds is necessary since this product will not control emerged weeds. This product postemergence may be applied over any previous registered herbicide treatment. In sprinkler-irrigated areas, sprinkler irrigate after application with 1/2 to 1 inch of water (1/2 inch on *coarse-textured soils* to 1 inch on *fine-textured soils*) to incorporate this product. In furrow-irrigated areas, apply this product, incorporate with a rolling cultivator or similar implement that provides uniform shallow incorporation (2 inches or less), and then irrigate. In non-irrigated areas, if at least 1/2 inch of rainfall does not occur within 10 days after application, cultivate with a rolling cultivator or similar implement that provides uniform shallow incorporation of this product.

**VA, NC, SC, GA, FL, and AL:** Apply this product postemergence at 1.0 to 1.33 pints per acre.

**TN, AR, KS, MS, MO, and LA:** Apply this product postemergence at 0.5 to 1.33 pints per acre.

**TX, OK, NM, AZ, CA, and Clay Soils in AR:** Apply this product postemergence at 1.0 to 1.33 pints per acre before August 1.

**Multiple Applications:** Where weed pressure is heavy, difficult-to-control species are expected, or re-infestation may occur, and a weed control program is used, multiple applications of this product are effective when used as part of the weed control program. Apply as a preplant incorporated or preemergence treatment and follow with an application postemergence to cotton before weeds emerge or after clean cultivation to remove existing weeds, since this product will not control emerged weeds. Apply this product postemergence over a previous preplant or preemergence application of this product as shown in the following table.

State	Multiple Applications of this Product to Cotton		
	Preplant Incorporated or Preemergence (P/A)	+	Postemergence (P/A)
MS, LA, TN, AR, KS, MO	0.5 to 1.33 (Preemergence Only)	+	0.5 to 1.33
TX, OK, NM	1.0 to 1.33	+	1.0 to 1.33 before August 1
NC, VA	1.0 to 1.33 (Preemergence Only)	+	1.0 to 1.33

In sprinkler-irrigated areas, sprinkler irrigate after application with 1/2 to 1 inch of water (1/2 inch on *coarse-textured soils* to 1 inch on *fine-textured soils*) to incorporate this product. In furrow-irrigated areas, apply this product, incorporate with a rolling cultivator or similar implement that provides uniform shallow incorporation (2 inches or less), and then irrigate. In nonirrigated areas, if at least 1/2 inch of rainfall does not occur within 10 days after application, cultivate with a rolling cultivator or similar implement that provides uniform shallow incorporation of this product.

**Restrictions:** For best control of yellow nutsedge and suppression of seedling johnsongrass, apply this product preplant incorporated, preemergence, or postemergence to cotton and preemergence to weeds at the maximum rate for the soil texture, whether applied alone or in combinations. Do not apply more than a total of 2.0 pints per acre on *coarse soils* or 2.6 pints per acre of this product on *medium* and *fine soils* during a growing season. These treatments may be applied over previous registered herbicide treatments.

**Precautions:** To avoid crop injury, (1) Do not apply this product on sand or loamy sand soils, or in areas where water is likely to "pond" over the bed; (2) To avoid concentration in the seed furrow, do not make broadcast applications of this product to cotton planted in furrows more than 2 inches deep. Band applications may be made to cotton planted in furrows deeper than 2 inches, but band width should not exceed the width of the bottom of the furrow; (3) In furrow-planted cotton, to avoid concentration in the furrow and potential injury, do not apply this product postemergence until after first "knifing" or cultivation to level soil surface; (4) Do not apply over the top in fluid fertilizer or any other adjuvant, surfactant, oil, or other pesticide not recommended in the cotton section of this label, or injury may occur; (5) Do not apply on Taloka silt loam; and (6) Do not use in Gaines County, TX.

**Restrictions:** Do not graze or feed forage or fodder from cotton to livestock, or illegal residues may result.

**COTTON – THIS PRODUCT’S COMBINATIONS**

**TANK MIXTURE WITH CAPAROL 4L**

This product tank mixtures with Caparol 4L may be applied preplant incorporated or preemergence in water or fluid fertilizer. When fluid fertilizer is used as a carrier for this product, either alone or in combination with Caparol 4L, mix only the amount that will be sprayed in one operation. These mixtures should not be allowed to stand without agitation. Only use water as a carrier for postemergence-directed application.

In addition to those weeds controlled by this product alone, this product + Caparol 4L, applied preplant incorporated or preemergence, also controls the following weeds: junglerice, wild oats, annual morningglory, groundcherry, hairy nightshade, lambsquarters, malva, mustard, prickly sida (teaweed), purslane, ragweed, and shallow-germinating seedlings of cocklebur and coffeeweed. As a postemergence-directed application, Caparol 4L provides postemergence control and residual control of weeds on its label, while this product provides residual control of weed species on its label. This product will not control emerged weeds.

**Preplant Incorporated or Preemergence:** Apply this product + Caparol 4L, either preplant incorporated or preemergence, using the appropriate rate from Table 5. Plant cotton below the zone of incorporation; i.e., at least 1.0 inch on *fine soils* and 1.5 inches on *coarse and medium soils*. If incorporated before planting, use a planter that will result in a minimum of soil disturbance.

**Table 5: This Product + Caparol 4L - Cotton (NM, OK, TX)**

Use Areas	Soil Texture	Broadcast Rates Per Acre	
		This Product	Caparol 4L
ALL	Sand, loamy sand	DO NOT USE	
OK, and Blacklands and Gulf Coast of TX	Loams	0.8 to 1.33 pts	2.4 pts
	Clays	1.33 pts	4.8 pts
Rio Grande Valley of TX	Loams	0.8 to 1.33 pts	3.2 pts
	Clays	1.33 pts	4.8 pts
NM; High Plains, Rolling Plains, Edwards Plateau of TX; and Southwest TX	Sandy loam	0.8 to 1.0 pt	1.6 pts
	Loams	0.8 to 1.33 pts	2.4 pts
	Sandy clay loams	1.33 pts	2.4 pts
	Other clay soils	1.33 pts	3.2 pts

**Postemergence Directed (AR, AZ, CA, LA, MS, NM, OK, TN, TX, and MO):** This product may be tank mixed with Caparol 4L in water and applied postemergence directed in cotton for control of emerged weeds listed on the Caparol 4L label and



residual preemergence control of weeds controlled by this product and Caparol 4L or application may be made after cultivation for residual preemergence control. These treatments may be applied over previous registered treatments, including this product, provided the maximum label rate of any product is not exceeded. Do not apply over the top of cotton or injury may occur.

Apply this product + Caparol 4L in a minimum of 20.0 gallons of spray volume per acre. Follow the directions, limitations, and precautions on the Caparol 4L label when Caparol 4L is applied as a postemergence-directed application. Refer to the directions, limitations, and precautions for use of this product under the **Cotton – This Product Alone - Postemergence** section.

*Precautions: (1) To avoid concentration in the seed furrow, do not make broadcast applications of this product + Caparol 4L to cotton planted in furrows more than 2 inches deep. Band applications may be made to cotton planted in furrows deeper than 2 inches, but band width should not exceed the width of the bottom of the furrow. To avoid crop injury, (2) Do not apply on sand or loamy sand soils, or in areas where water is likely to "pond" over the bed; (3) Do not apply in cut areas of newly leveled fields, or in areas of excess salt; (4) Do not apply to glandless cotton varieties; and (5) Do not apply on Taloka silt loam. (6) Do not use in Gaines County, TX.*

**Restrictions:** Do not graze or feed forage or fodder from cotton to livestock, or illegal residues may result.

Refer to the Caparol 4L label for further instructions and limitations.

**TANK MIXTURE WITH COTORAN DF**

Apply this product in tank mixture with Cotaran DF preemergence for control of those weeds controlled by this product alone and those as listed on the Cotaran DF label. This combination will also control spotted spurge, hyssop spurge, nodding spurge, and prostrate spurge. Apply to the soil surface at planting or after planting, but before weeds or crop emerge, using the appropriate rates from Table 6. Apply the tank mixture postemergence to cotton but preemergence to weeds, or apply postemergence to both cotton and broadleaf weeds for control of weeds on the Cotaran DF label. Apply as a directed, semi-directed, or over-the-top spray. This product will not control emerged weeds but will provide preemergence control of species on its label. Where rate ranges are given for Cotaran DF, use the higher rate when applying postemergence to weeds that are 2 inches or less. These treatments may be applied over previous registered treatments, including this product, provided the maximum label rate of any product is not exceeded.

**Mixing Instructions:** Incompatibility may occur when tank mixing this product and Cotaran DF. To help overcome this condition, fill the spray tank 1/4 full with water or fluid fertilizer and start agitation, add the Cotaran DF and allow it to become dispersed. Add X-77 at 0.5% volume/volume final spray (4.0 pts./100 gals.), then add this product and finally the rest of the water or fluid fertilizer. Agitate during mixing and application to

maintain a uniform suspension. Do not use fluid fertilizer as a carrier for postemergence applications.

**Table 6: This Product + Cotoran DF - Cotton**

Soil Texture	Broadcast Rates Per Acre		
	This Product (pts)		Cotoran DF*** (lbs)
	Area 1*	Area 2**	
Sand, loamy sand	DO NOT USE		
Sandy loam	0.5 to 1.0	0.8 to 1.0	1.2
Loam, silt loam, silt	0.66 to 1.33	1.0 to 1.33	1.2 to 1.9
Fine soil	1.0 to 1.33	1.33	1.9 to 2.4

\*Area 1 = AR, LA, MS, Bootheel of MO and TN

\*\*Area 2 = Eastern OK, Gulf Coast, Rio Grande Valley, and Eastern TX

\*\*\*When using Cotoran 4L, use equivalent rates: Multiply pounds of Cotoran DF by 1.7 to get pints of Cotoran 4L.

*Precautions: (1) Do not apply this product + Cotoran on sand or loamy sand soils, or in areas where water is likely to "pond" over the bed, or crop injury may occur. (2) To avoid concentration in the seed furrow, do not make broadcast applications of this product + Cotoran to cotton planted in furrows more than 2 inches deep. Band applications may be made to cotton planted in furrows deeper than 2 inches, but band width should not exceed the width of the bottom of the furrow. (3) The use of Cotoran following the use of a systemic insecticide at planting may result in crop injury. (4) Do not use on Taloka silt loam, or crop injury may occur. (5) Do not use in Gaines County, TX.*

Refer to the Cotoran labels for further instructions, precautions, and limitations.

**Restrictions:** To avoid possible illegal residues, do not feed treated forage or gin trash, to livestock, or graze treated areas.

**TANK MIXTURE OF THIS PRODUCT OR THIS PRODUCT + COTORAN WITH GRAMOXONE INTEON, TOUCHDOWN BRANDS, OR MAKAZE BRANDS FOR MINIMUM-TILLAGE OR NO-TILLAGE SYSTEMS**

In minimum-tillage or no-tillage systems where cotton is planted directly into a cover crop, stale seedbed, or previous crop residues, the contact herbicides Gramoxone Inteon, Touchdown brands, or Makaze brands may be added to a tank mix of either this product or this product + Cotoran. When used as directed, the Gramoxone Inteon portion of the tank mixture controls most emerged weeds and suppresses many perennial weeds. Touchdown or Makaze combinations will control emerged annual and perennial weeds when applied as directed on the Touchdown or Makaze label. This product and this product + Cotoran portion of the tank mixture provides preemergence control of the weeds listed on this label in This Product and This Product + Cotoran sections, respectively.

Refer to the label of each product used in combination and observe the planting details, information regarding application, geographical restrictions, and all other precautions and limitations. Refer to Mixing Instructions under **Tank Mixture with Cotoran DF** section.

**Application:** Apply before, during, or after planting, but before the cotton emerges. Apply this product at 0.8 to 1.0 pint per acre on sandy loams, *medium-*, and *fine-textured soils*. Refer to Table 6 for the Cotoran DF rates.

**Gramoxone Inteon:** Apply as directed on the product label. This treatment will not control weeds taller than 6 inches.

**Restrictions:** Do not apply combinations containing Gramoxone Inteon in suspension-type liquid fertilizers, as the activity of paraquat will be reduced.

**Touchdown Brands or Makaze Brands:** See the Touchdown or Makaze label for weeds controlled, recommended rates, and other use directions.

**Restrictions:** Do not apply this product + Cotaran 4L + Makaze in tank mixture because of compatibility problems.

Apply in 20.0 to 60.0 gallons of water or fluid fertilizer per acre with ground equipment.

*Precautions: (1) If heavy rain occurs soon after application, crop injury may result, especially in poorly drained areas where water stands for several days, or where the seeding slit has not been properly closed. (2) Refer to the Coloran labels and the **Tank Mixture with Cotoran DF** section of this label for further instructions, precautions, and limitations. (3) Do not use in Gaines County, TX.*

**TANK MIXTURE WITH MSMA, MSMA + CAPAROL, OR MSMA + COTORAN**

This product may be tank mixed with MSMA in water and applied postemergence directed for control of emerged weeds listed on the MSMA product label and residual preemergence control of weeds controlled by this product. The addition of Caparol or Cotoran will add control of weed species on their respective labels.

**Postemergence Directed (AL, AR, AZ, CA, FL, GA, LA, MS, NC, NM, OK, SC, TN, TX, VA, and Bootheel of MO):** Apply this product + MSMA postemergence directed to cotton at least 3 inches tall according to the directions, limitations, and precautions on the MSMA product label, as well as the directions, limitations, and precautions for use of this product in the section for **Cotton – This Product Alone - Postemergence**. Do not apply after first cotton bloom. These treatments may be applied over previous registered treatments, including this product, provided the maximum label rate of any product is not exceeded. Cotoran or Caparol may be added to this product + MSMA tank mixture according to the respective label directions for application to cotton at least 3 inches tall. When these mixtures are used, follow the mixing instructions for this product + Caparol or Cotoran and then add the MSMA product.

Do not use this product in tank mix with premixes of MSMA plus herbicides other than those registered for use in tank mixture with this product on cotton.

**TANK MIXTURE WITH TREFLAN FOR POST-DIRECTED FOLLOWED BY SOIL INCORPORATION APPLICATIONS**

This product may be applied as a tank mixture with Treflan in cotton for improved late-season weed control when used as an incorporated lay-by type application. This combination may be applied after the cotton is at least 3 inches tall and has reached the 4 true-leaf stage. Make the application directed to the soil surface and away from the crop foliage. Incorporate using a sweep or rolling type cultivator to provide uniform and shallow mixing into the top 2 inches of soil. Refer to each product label for the appropriate application rates by soil type and for this application timing, and follow all product use limitations and restrictions.

**TANK MIXTURE WITH TOUCHDOWN BRANDS OR MAKAZE BRANDS FOR USE ON ROUNDUP READY COTTON ONLY**

Apply this product as a tank mixture with Touchdown or Makaze in water postemergence over-the-top or postemergence directed for control of emerged weeds listed on the Touchdown or Makaze labels and for residual preemergence control of weeds listed on this product's label. See the **Cotton – This Product Alone – Postemergence** section of this label for rates and timings of this product and follow the Touchdown or Makaze label for their respective rates, application methods, and application timing restrictions. Do not add additional spray adjuvants, surfactants, fertilizer additives, or pesticides to this tank mixture if applied postemergence over-the-top or unacceptable injury may occur. Refer to the Touchdown brand or Makaze brand label and follow appropriate use directions, application procedures, precautions, and limitations.

*Precautions: (1) Do not apply this tank mixture postemergence to any cotton variety unless it is designated Roundup Ready and unless the Touchdown or Makaze formulation being used is registered for postemergence use in Roundup Ready Cotton. (2) Postemergence over-the-top applications of this tank mixture may cause temporary injury in the form of necrotic spotting to exposed cotton leaves, which will not affect normal plant development. (3) Do not apply Touchdown or Makaze postemergence over-the-top to cotton past the growth stage limit specified on their respective labels. (4) Do not use on sand or loamy sand soils in Gaines County, TX.*

**SOYBEAN, IMMATURE SEED**

This product may be applied preplant or preemergence for the control or suppression of grass and small-seeded weeds in immature-seed soybean or other food-grade soybeans. For specific rates, see the rate table listed below.

**Preplant Surface-Applied:** For minimum-tillage or no-tillage systems only, this product alone may be applied up to 45 days before planting. Use only split applications for treatments made 30 to 45 days before planting, with 2/3 the recommended broadcast

rate for the crop and soil texture applied initially and the remaining 1/3 applied at planting. Treatments less than 30 days before planting may be made either as a split or a single application. If weeds are present at the time of treatment, apply in a tank mixture combination with a contact herbicide (e.g., Gramoxone Inteon, Touchdown, or Makaze). Observe directions for use, precautions, and restrictions on the label of the contact herbicide. To the extent possible, do not move treated soil out of the row or move untreated soil to the surface during planting, or weed control will be diminished.

**Preplant Incorporated:** Apply this product to the soil and incorporate into the top 2 inches of soil within 14 days before planting, using a finishing disk, harrow, rolling cultivator, or similar implement capable of providing uniform 2-inch incorporation. Use a preplant incorporated application if furrow irrigation is used or when a period of dry weather after application is expected. If crop will be planted on beds, apply and incorporate this product after bed formation, unless specified otherwise.

**Preemergence:** Apply this product during planting (behind the planter) or after planting, but before weeds emerge.

**This Product Broadcast Rates Per Acre**

Soil Texture	Percent Organic Matter in Soil	
	<3%	>3%
<b>Coarse</b>	1.0 to 1.33 pts	1.33 pts
<b>Medium</b>	1.33 to 1.67 pts	1.33 to 1.67 pts
<b>Fine</b>	1.33 to 1.67 pts	1.67 to 2.0 pts

*Precautions: (1) This product will not control emerged weeds. (2) Do not cut for hay within 120 days following this product's application. (3) Do not use for forage within 60 days following this product's application. (4) Do not apply more than 2.0 pints per acre of this product during any one crop year.*

**GRASSES GROWN FOR SEED (ID, OR, WA) – THIS PRODUCT APPLIED ALONE**

To control weeds and volunteer grasses in established grasses grown for seed, apply this product to established stands of tall fescue, orchardgrass, perennial ryegrass, fine fescue, bentgrass, and Kentucky bluegrass just before, during, or immediately following the first fall rains or just before or during a late summer or early fall irrigation, but before target grasses emerge. The seed crop must have had one seed harvest or been established at least one year. The post-harvest residue (straw) should be evenly spread, removed, or burned before applying this product. Rainfall or irrigation is required after application and before weed emergence for best control. This product will provide preemergence control/suppression of volunteer seedlings of perennial ryegrass, fine fescue species, tall fescue, orchardgrass, bentgrass, and Kentucky bluegrass. This product will control those weed species listed in the **This Product Alone** section of this product's label and will suppress or control rattail fescue, annual bluegrass, Italian ryegrass, California brome, downy brome, and roughstalk bluegrass.

Apply this product by ground equipment in a minimum of 10.0 gallons of water per acre using the rate listed below according to grass species.

Established Grass Crop Grown for Seed	Pt/A
Fine fescue species	1.0
Perennial ryegrass	1.0
Bentgrass	1.0 to 1.33
Kentucky bluegrass	1.0 to 1.33
Orchardgrass	1.0 to 1.33
Tall fescue	1.0 to 1.33

Precautions: (1) Apply this product only once per crop year. (2) Do not apply after November 15 or poor control may result. (3) Tank mixtures with other pesticides, or the addition of an adjuvant, can increase the risk of crop injury. (4) Application to perennial ryegrass and fine fescue stands under stress may cause crop injury. (5) If weed escapes occur following this product's application, an application of a postemergence herbicide may be necessary to control escapes. When making such an application, follow all directions, precautions, and limitations on the label of the postemergence herbicide. (6) Control may be decreased if excessive straw from the previous harvest is present at application and/or insufficient rainfall/ irrigation occurs.

**Restrictions:** To avoid possible illegal residues: (1) Do not graze forage regrowth for 60 days following application west of the Cascades. (2) In areas east of the Cascades, do not graze forage regrowth for 150 days following application. (3) Hay may be harvested anytime between seed harvest and the next application of S-metolachlor.

**HORSERADISH**

Apply a single application of this product at a broadcast rate of 1.0 to 1.33 pints per acre to the soil surface after planting, but before weed or crop emergence (i.e., preemergence). Use lower rates on soils relatively coarse-textured and higher rates on fine-textured soils. A band application may also be used, applying proportionally less spray mixture on the area actually treated. This product will not control emerged weeds. Control emerged weeds with an appropriate registered foliar herbicide or by mechanical means.

**Restrictions:** (1) Make only one application of this product per crop. (2) Do not apply more than 1.33 pints per acre of this product per crop. (3) Harvest horseradish at normal timing.

**PEANUTS – THIS PRODUCT ALONE**

Apply this product either preplant incorporated, postplant incorporated, or preemergence, using the appropriate rate specified below. **Preplant Incorporated or Preemergence:** Follow instructions for use of this product alone under **Application Procedures**. **Postplant Incorporated:** Apply and shallowly incorporate this product into the soil after planting, but before peanut germination. Incorporation depth and incorporating implements must be kept above the seed, or seed will be damaged.

Apply this product alone, preplant incorporated, postplant incorporated, or preemergence, at a broadcast rate of 1.0 to 1.33 pints per acre in the Southeast\* and 0.8 to 1.33 pints per acre in NM, OK, and TX.

\*In the Southeast, use 1.33 to 2.0 pints per acre and apply preemergence for partial control of Florida beggarweed.

**Restrictions:** (1) This product alone may be applied as directed after any of the following preplant incorporated herbicides when used according to their label recommendations: Balan at 3.0 to 4.0 quarts per acre; Treflan E.C. at 1.0 pint per acre; Sonalan at 1.25 to 3.0 pints per acre; Pursuit at 0.25 pint per acre; or Stealth at 1.0 to 2.0 pints per acre. (2) Do not graze or feed peanut forage or fodder to livestock for 30 days following application, and (3) Do not apply within 90 days of harvest, or illegal residues may result.

**PEANUTS – THIS PRODUCT COMBINATIONS**

**TANK MIXTURE WITH BALAN L.C.**

This product + Balan tank mixture applied preplant incorporated controls those weeds listed under **This Product Applied Alone** and those weeds as listed on the Balan label.

Apply 1.0 to 1.33 pints per acre of this product + 3.0 to 4.0 quarts per acre of Balan in a minimum of 10.0 gallons of spray volume per acre for ground application or in a minimum of 5.0 gallons of spray volume per acre for aerial application. Follow the recommended procedures for Balan on the Balan label for soil preparation and incorporation of this tank mix. Apply and incorporate this product +Balan up to 14 days prior to planting.

**Restrictions:** Follow all restrictions and precautions on the Balan label.

**TANK MIXTURE OR SEQUENTIALLY WITH PURSUIT**

The tank mixture or sequential treatment of this product and Pursuit controls all weeds controlled by this product alone and by Pursuit alone. Refer to the **This Product Applied Alone** section for weeds controlled by this product and to the Pursuit label for weeds controlled by Pursuit.

Refer to the respective labels for application methods, timing, rates, restrictions, and precautions; and use in accordance with the more restrictive label. Do not exceed the label rate of either product. This product will not control emerged weeds.

**TANK MIXTURE WITH SONALAN**

The tank mixture controls all weeds controlled by this product alone and by Sonalan alone. Refer to the **This Product Applied Alone** section for weeds controlled by this product and to the Sonalan label for weeds controlled by Sonalan.

Apply this product + Sonalan preplant incorporated, using the appropriate rate from Table 7. Follow recommended soil preparation procedures for Sonalan.

**Table 7: This Product + Sonalan - Peanuts**

Soil Texture	Broadcast Rates Per Acre			
	Southeast		NM, OK, TX	
	This Product	Sonalan	This Product	Sonalan
Coarse	1.0 to 1.33 pts	1.25 to 2.0 pts	0.8 to 1.33 pts	1.25 to 2.0 pts
Medium	1.0 to 1.33 pts	1.75 to 2.5 pts	0.8 to 1.33 pts	1.75 to 2.5 pts
Fine	1.0 to 1.33 pts	2.25 to 3.0 pts	0.8 to 1.33 pts	2.25 to 3.0 pts

**Restrictions:** Follow all use directions, limitations, precautions, and information regarding application to peanuts on this product and Sonalan labels.

**TANK MIXTURE WITH STEALTH**

This product + Stealth applied preplant incorporated controls all weeds controlled by this product alone plus Texas panicum, field sandbur, johnsongrass from seed, lambsquarters, kochia, annual spurge, and other species on the Stealth label. Apply this product + Stealth by ground or by aerial equipment within 14 days before planting. Incorporate into the top 1 to 2 inches of soil before planting and within 7 days of application, using a finishing disk or similar implement capable of providing uniform incorporation. If peanuts will be planted on beds, apply and incorporate after bed formation. Refer to the **Incorporation** instructions of the respective labels for additional directions.

Apply this product + Stealth preplant incorporated, using the appropriate rates from Table 8.

**Table 8: This Product + Stealth - Peanuts**

Soil Texture	Broadcast Rates Per Acre	
	NM, OK, TX	Other Peanut Growing States
	This Product + Stealth	This Product + Stealth
Sand, loamy sand	0.8 + 1.0 to 1.5 pts	1.0 to 1.33 + 1.5 to 2.0 pts
Sandy loam	0.8 to 1.0 + 1.0 to 1.5 pts	1.0 to 1.33 + 1.5 to 2.0 pts
Fine soil	1.33 + 1.0 to 1.5 pts	1.33 + 1.5 to 2.0 pts

**Restrictions:** Follow all use directions, limitations, precautions, and information regarding application to peanuts on this product and Stealth labels.

**TANK MIXTURE WITH GRAMOXONE INTEON**

This product + Gramoxone Inteon applied at ground cracking will control or suppress small (1- to 6-inch) emerged annual grass and broadleaf weeds and provide residual control of weed species listed in the **This Product Applied Alone** section of this label. Apply Gramoxone Inteon plus the appropriate of this product's rate from the **Peanuts** –



**This Product Alone** section in a minimum spray volume of 20.0 gallons per acre with ground equipment. Refer to the Gramoxone Inteon label and follow all directions, limitations, and restrictions.

**TANK MIXTURE WITH GRAMOXONE INTEON + BASAGRAN**

The addition of Basagran to this product + Gramoxone Inteon mixture will result in improved control of such problem broadleaf weeds as prickly sida, cocklebur, smartweed, and bristly starbur. This product + Gramoxone Inteon + Basagran applied at ground cracking will control or suppress small (1- to 6-inch) emerged annual grass and broadleaf weeds and provide residual control of weed species listed in the **This Product Applied Alone** section of this label. Apply Basagran + Gramoxone Inteon with the appropriate of this product's rate from the **Peanuts – This Product Alone** section in a minimum spray volume of 20.0 gallons per acre with ground equipment. Refer to the Gramoxone Inteon and Basagran labels and follow all directions, limitations, and restrictions.

**TANK MIXTURE WITH GRAMOXONE INTEON + BUTYRAC 200 OR BUTOXONE 200**

The addition of Butyrac 200 or Butoxone 200 to this product + Gramoxone Inteon mixture will result in improved control of such problem broadleaf weeds as sicklepod, morning glory, and cocklebur. This product + Gramoxone Inteon + Butyrac 200 or Butoxone 200 applied at ground cracking will control or suppress small (1- to 6-inch) emerged annual grass and broadleaf weeds and provide residual control of weed species listed in the **This Product Applied Alone** section of this label. Apply Gramoxone Inteon + Butyrac 200 or Butoxone 200 with the appropriate of this product's rate from the **Peanuts – This Product Alone** section in a minimum spray volume of 20.0 gallons per acre with ground equipment. Refer to the Gramoxone Inteon and Butyrac 200 or Butoxone 200 labels and follow all directions, limitations, and restrictions.

**TANK MIXTURE WITH BASAGRAN**

This product + Basagran applied at ground cracking will control species on the Basagran label and provide residual control of species listed in the **This Product Applied Alone** section of this label. Apply 1.0 to 2.0 pints per acre of Basagran in 20.0 gallons per acre, depending on weed species and stage of growth as specified on the Basagran label, with the appropriate of this product's rate from the **Peanuts – This Product Alone** section. A second Basagran application may be made in all peanut-growing areas, if needed. Refer to the respective labels and follow all directions, limitations, and restrictions for each product.

**TANK MIXTURE WITH BASAGRAN + BUTYRAC 200 OR BUTOXONE 200**

This product + Basagran + Butyrac 200 or Butoxone 200 applied at ground cracking will control species on the Basagran label and on the Butyrac 200 or Butoxone 200 labels, especially morning glories. Apply 1.5 to 2.0 pints per acre of Basagran + 8.0 fluid ounces per acre of Butyrac 200 or Butoxone 200 in 20.0 gallons per acre, depending on weed species and stage of growth as specified on the Basagran label, with the

appropriate of this product's rate from the **Peanuts – This Product Alone** section. A second Basagran + Butyrac 200 or Butoxone 200 application may be made in all peanut-growing areas, if needed. Refer to the respective labels and follow all directions; limitations, and restrictions for each product.

**SEQUENTIALLY WITH STORM®**

Apply this product according to the directions for **This Product Alone** and follow with a postemergence treatment of Storm as specified on its label for the control of weeds listed on this product's label and on the Storm label. Refer to the **This Product - Peanuts - Alone** section and to the Storm label and follow all directions, limitations, and restrictions for each product.

**MULTIPLE APPLICATIONS**

Where weed pressure is heavy or where species difficult to control are expected, this product is most effective when used as follows:

**Southeast Only (AL, FL, GA, NC, SC, VA)**

**Preplant Incorporated:** Apply this product preplant incorporated as directed under **Peanuts – This Product Alone** or apply this product + Balan preplant incorporated as directed previously in this section. Refer to the respective section for weeds controlled.

OR

**Preemergence to before "ground cracking":** Apply this product any time from preemergence to before "ground cracking" at 1.0 to 2.0 pints per acre for extended control of weeds not yet emerged. Do not use this product after peanut emergence. If peanuts have emerged, use Dual Magnum® according to its label: **Peanuts - Combinations - Multiple Applications.**

Follow the PPI or PRE application by:

**Lay-by: Do not use This Product.** Apply Dual Magnum at lay-by as directed under the **Peanuts - Alone** section of the Dual Magnum label.

**Restrictions:** (1) Do not apply more than the equivalent of 2.67 pounds of active ingredient of this product per acre during any one year, or illegal residues may result. If Dual Magnum is used as a sequential treatment, the pounds of active ingredient (1.0 pt = 0.95 lb) plus the pounds of active ingredient of this product should not exceed 2.67 pounds. **Do not use this product after peanuts have emerged.** (2) Do not graze or feed peanut forage or fodder to livestock for 30 days following application, and (3) Do not apply within 90 days of harvest, or illegal residues may result.

**Southwest Only (NM, OK, TX)**

**1st Application:** Apply this product preplant incorporated or preemergence to before "ground cracking" as directed under **Peanuts – This Product Alone** or apply this product + Balan preplant incorporated as directed previously in this section. Do not use this product after peanut emergence. If peanuts have emerged, use Dual Magnum according to its label.

**2nd Application:** Do not use this product. Apply Dual Magnum at lay-by as directed under the **Peanuts - Alone** section of the Dual Magnum label. Use only when late germinating weeds are expected to be a problem. Refer to the product **Applied Alone** section for a list of weeds controlled.

**Restrictions:** (1) Do not apply more than the equivalent of 2.67 pounds of active ingredient of this product per acre during any one year, or illegal residues may result. If Dual Magnum is used as a sequential treatment, the pounds of active ingredient (1.0 pt = 0.95 lb) plus the pounds of active ingredient of this product should not exceed 2.67 pounds.

Do not use this product after peanuts have emerged. (2) Do not graze or feed peanut forage or fodder to livestock for 30 days following application, and (3) Do not apply within 90 days of harvest, or illegal residues may result.

**BEANS, PEAS, AND LENTILS – THIS PRODUCT ALONE**

Beans, peas, and lentils, including garbanzo, great northern beans, kidney beans, lima beans, mung beans, navy beans, peas (English\*; southern peas, such as blackeye, pinkeye, crowder, etc.), pinto beans, snap beans (green, wax, string), lentils, and lupines (sweet, white, white sweet, and grain).

**Fall Application:**

1. Apply after September 30 in ND, SD, MN, WI, and north of Route 30 in IA.
2. Apply after October 15 north of Route 91 in NE and south of Route 30 in IA.
3. Apply after October 31 north of Route 136 in IL.

In all locations, apply to crop stubble after harvest when the sustained soil temperature at a 4-inch depth is less than 55 °F and falling. In minimum-till or no-tillage systems on soils having greater than 2.5% organic matter, use 1.67 to 2.0 pints per acre on *medium-textured* and 2.0 pints per acre on *fine-textured soils*. Do not apply to frozen ground. A tillage operation may precede the application. A fall and/or a spring tillage may follow application, but do not exceed an incorporation depth greater than 2 to 3 inches. Minimize furrow and ridge formation in the tillage operations. **Restrictions:** If a spring application is made, the total rate of the fall plus spring applications must not exceed the maximum total rate for beans, peas, and lentils, or illegal residues may result.

**Spring Application:**

Apply this product, either preplant incorporated or preemergence, using the appropriate rate specified below. **Preplant Incorporated or Preemergence:** Follow instructions for use of this product alone under **Application Procedures**. On *coarse soils* with less than 3% organic matter, apply 1.0 to 1.33 pints per acre of this product or 1.33 pints per acre if organic matter is 3% or greater. On *medium soils*, apply 1.33 to 1.67 pints per acre of this product. On *fine soils*, apply 1.33 to 1.67 pints per acre of this product if organic matter content is less than 3%, or 1.67 to 2.0 pints per acre if organic matter content is 3% or greater.

\*On English peas, use only preemergence applications. If soils are cold and wet during pea germination and emergence, the use of this product may delay maturity and/or reduce yields.

**Restrictions:** To avoid possible illegal residues, (1) Do not cut for hay within 120 days following this product's application, (2) Do not use for forage within 60 days following this product's application, and (3) Do not apply more than 2.0 pints per acre of this product during any one crop year.

**BEANS, PEAS, AND LENTILS – THIS PRODUCT COMBINATIONS**

**Restrictions:** When applying this product in combination on beans, peas, and lentils, do not cut for hay within 120 days following application, or illegal residues may result.

**TANK MIXTURE AND SEQUENTIAL APPLICATIONS WITH EPTAM - BEANS (GREEN OR DRY)**

This mixture controls all weeds controlled by this product alone and by Eptam alone. Refer to the **This Product Applied Alone** section of this label for weeds controlled by this product alone and to the Eptam label for weeds controlled by Eptam.

**Preplant Incorporated:** Follow instructions for use of this product alone under **Application Procedures**. **Sequential:** Apply Eptam alone preplant incorporated, as specified on that label. Follow with a preemergence application of this product, at rates specified for this product alone, during planting (behind the planter) or after planting, but before the weeds or crop emerge.

Refer to the **Product Information** section of this label and to the Eptam label for weather, cultural practices, and all other precautions and limitations that affect performance of these products.

Apply 2.5 to 4.5 pints per acre of Eptam 7E\* with this product as specified. On coarse soils, apply 0.8 pint per acre of this product if organic matter content is less than 3%, or 1.0 pint per acre if organic matter content is 3% or greater. On medium soils, apply 1.0 pint per acre of this product if organic matter content is less than 3%, or 1.33 pints per acre if organic matter content is 3% or greater. On fine soils, apply 1.33 pints per acre of

this product if organic matter is less than 3%, or 1.33 to 1.67 pints per acre if organic matter is 3% or greater.

\*Refer to the Eptam label for rate limitations depending on geographical area, and for species and varietal restrictions.

*Precaution: Do not exceed 3.5 pints per acre of Eptam 7E on small white beans or green beans grown on coarse-textured soils.*

**TANK MIXTURE WITH TREFLAN - BEANS (DRY - KIDNEY, NAVY, PINTO, ETC.; LIMA; AND SNAP)**

This product + Treflan tank mix applied preplant incorporated controls those weeds listed under **This Product Applied Alone** and those weeds listed for Treflan alone on the Treflan label. This product + Treflan may be applied by ground or by aerial equipment and incorporated up to 14 days prior to planting. Follow the recommended procedures on this label and on the respective Treflan label using equipment that provides uniform 2-inch incorporation.

Apply this product + Treflan tank mix using the appropriate of this product's rate specified for this product alone, and the Treflan rate from the Dry Beans, and the Lima and Snap Beans sections of the respective Treflan label. Choose the product rate for the specific soil texture/organic matter classification and weed species expected.

**Restrictions:** Follow all restrictions and precautions on the respective Treflan label and in the **Beans, Peas, and Lentils – This Product Alone** section of this label.

**POTATOES – THIS PRODUCT ALONE**

Apply this product, either incorporated, preemergence, or postemergence to potatoes after hilling/lay-by, according to directions specified below for control of weeds listed under the **Product Information** section. Within a rate range, use the lower rate on soils relatively coarse-textured or low in organic matter; use the higher rate on soils relatively fine-textured or high in organic matter. Effectiveness will be reduced if later cultural practices expose untreated soil. For application by center pivot irrigation, see the **Center Pivot Irrigation Application** section of this label.

**Incorporated:** Apply this product at 1.0 to 2.0 pints per acre to the soil and incorporate into the top 3 inches before planting, using a finishing disk, harrow, rolling cultivator, or similar implement. Planting and later cultural practices should not bring untreated soil to the surface. Postplant incorporated application may be made any time after planting to drag-off, but before potato emergence. Use an implement that evenly distributes this product in the top 2 inches of soil. Do not damage potato seed pieces or sprouts with incorporation equipment.

**Preemergence:** Apply this product at 1.0 to 2.0 pints per acre, either after planting as a preemergence, delayed preemergence, after drag-off or hilling treatment, but before

weeds emerge. Up to 2.5 pints per acre of this product alone may be used where soil organic matter is between 6% and 20%.

**Postemergence After Hilling/Lay-by:** Apply 1.67 pints per acre of this product postemergence to potatoes through after hilling/at lay-by to control species sensitive to this product for remainder of the growing season. This application will not control emerged weeds. It may be applied over a previous application of this product, but do not apply more than 3.6 pints per acre of this product in a single crop season.

*Precautions: (1) Do not use on muck or peat soils. If cool, wet soil conditions occur after application, this product may delay maturity and/or reduce yield of Superior and other early maturing potato varieties. (2) These directions for use do not apply to sweet potatoes or yams; (3) Do not apply both as a preemergence and an incorporated treatment.*

**Restrictions:** Potatoes treated with this product should not be harvested within 60 days after the at-planting to drag-off application, or illegal residues may result.

## **POTATOES – THIS PRODUCT COMBINATIONS**

### **TANK MIXTURE WITH METRIBUZIN 75**

In addition to those weeds controlled by this product alone, this product applied in tank mix combination with, or sequentially with, any of the registered Metribuzin 75 formulations also controls the following broadleaf weeds: cocklebur\*, hairy nightshade\*, hemp sesbania, jimsonweed\*, lambsquarters, prickly sida, ragweed, smartweed, velvetleaf, Venice mallow, and wild mustard.

\*Partially controlled.

This product at 1.0 to 2.0 pints per acre plus the labeled Metribuzin 75 use rate may be used preemergence or postemergence to potatoes through after last hilling. Apply 1.0 to 1.33 pints per acre of this product on *coarse soils* and 1.33 to 2.0 pints per acre on other soil textures. Within this rate range, use the lower rate on soils relatively coarse-textured or low in organic matter; use the higher rate on soils relatively fine-textured or high in organic matter. Effectiveness will be reduced if later cultural practices expose untreated soil. This product will not control emerged weeds.

Refer to the Metribuzin 75 label for precautionary statements, restrictions, application information, center pivot irrigation application, weeds controlled, and varietal limitations.

*Precautions: (1) Postemergence applications to potatoes, except center pivot, should be made only as a directed or semi-directed spray to avoid chlorosis, minor necrosis, or leaf distortion. (2) These directions for use do not apply to sweet potatoes or yams. (3) Do not use this tank mixture on muck or peat soils.*

**Restrictions:** (1) Potatoes treated with this product in tank mixture with Metribuzin 75 cannot be harvested within 60 days after application, or illegal residues may result. (2) Potatoes may not be harvested within 40 days after a lay-by application of this product or illegal residues may result.

**THIS PRODUCT + LOROX TANK MIXTURE (EAST OF ROCKY MOUNTAINS)**

This product may be applied in a tank mix combination with any of the registered Lorox formulations as a preemergence broadcast application to potatoes. Apply to the soil surface after planting and before emergence of the crop or after final drag-off according to the rates specified in Table 9.

**Table 9: This Product + Lorox - Potatoes (East of Rocky Mountains)**

Soil Texture	Broadcast Rates Per Acre			
	1% to Less than 3% Organic Matter		3 to 5% Organic Matter	
	This Product	Lorox*	This Product	Lorox*
<b>COARSE</b> Sandy loam	1.0 pt	1.0 to 1.5 lbs	1.33 pts	1.5 to 2.0 lbs
<b>MEDIUM</b> Loam, silt loam, silt	1.33 pts	1.5 to 2.0 lbs	1.67 to 2.0 pts	2.0 to 2.5 lbs

\*When using Lorox L or Lorox DF, use equivalent rates. One pint of Lorox L equals 1.0 pound of Lorox DF.

*Precautions: To avoid crop injury, (1) Do not use on sands or loamy sands, and (2) Do not incorporate or spray over the top of emerged potatoes.*

Refer to the **Product Information** section of this label and to the Lorox label for precautionary statements, restrictions, application information, and weeds controlled.

**TANK MIXTURE WITH PROWL 4E**

In addition to the weeds controlled by this product alone, this tank mixture with Prowl 4E controls such problem species as kochia, lambsquarters, purslane, annual spurge, stinging nettle, and others specified on the Prowl 4E Alone label. Apply this product + Prowl 4E preemergence, preemergence incorporated, or early postemergence, according to the specific directions on the Prowl 4E label, using the rates in Table 10.

**Table 10: This Product + Prowl 4E - Potatoes**

Soil Texture	Broadcast Rates Per Acre	
	Less than 3% Organic Matter	More than 3% Organic Matter
	This Product + Prowl 4E*	This Product + Prowl 4E
<b>COARSE</b>	1.0 to 1.33 pts + 1.0 to 1.5 pts	1.0 to 1.33 pts + 1.0 to 1.5 pts
<b>MEDIUM</b>	1.33 pts + 1.5 to 2.0 pts	1.33 to 1.67 pts + 2.0 to 3.0 pts
<b>FINE</b>	1.33 to 1.67 pts + 2.0 to 3.0 pts	1.67 to 2.0 pts + 3.0 pts

\*When using other formulations of Prowl, use equivalent rates of active ingredient.

Refer to this product and Prowl 4E labels and observe all directions, timings, limitations, precautions, and restrictions concerning the use of these products on potatoes and follow the most restrictive.

**TANK MIXTURE WITH PROWL 4E + EPTAM**

In addition to the weeds controlled by this product alone, this tank mixture will control those species on the Prowl 4E and Eptam labels. Refer to the This Product + Prowl 4E labels for rates of those products and add Eptam 7E at 3.5 to 7.0 pints per acre, depending on geographical area. Refer to the respective this product, Prowl4E, and Eptam labels and observe all directions, limitations, precautions, and restrictions concerning the use of these products on potatoes and follow the most restrictive.

**PUMPKIN – THIS PRODUCT ALONE**

**Preemergence**

Apply this product preemergence (before the weeds have emerged) at 1.0 to 1.33 pints per acre as an inter-row or inter-hill application in pumpkin. Leave 1 foot of untreated area over the row, or 6 inches to each side of the planted hill and/or any emerged pumpkin foliage (inter-row or inter-hill means not directly over the planted seed or young pumpkin plants). Use the lower of this product's rate on soils light in texture (loamy sand or lighter) and low in soil organic matter (less than 3%). This product applied as a broadcast spray over the planted row or hill, or applications made directly to crop foliage, will increase the risk of injury (e.g., stand loss, delayed maturity, and loss of yield) to the pumpkin crop. Do not apply this product closer than 30 days before pumpkin harvest.

This product will not control emerged weeds, and thus should be applied before the weeds emerge. Weeds that are present should be controlled by another means, e.g., by mechanical means or by another herbicide.



**RHUBARB - THIS PRODUCT ALONE**

Apply this product at a broadcast rate of 0.67 to 1.33 pints per acre to the soil surface in early spring, prior to crop emergence. Use lower rates on soils relatively coarse-textured and higher rates on fine-textured soils. A band application may also be used, applying proportionally less spray mixture on the area actually treated. This product will not control emerged weeds. Control emerged weeds with an appropriate registered foliar herbicide or by mechanical or physical means.

**Restrictions:** (1) Make only one application of this product per crop. (2) Do not apply more than 1.33 pints per acre of this product per crop. (3) Do not harvest rhubarb within 62 days of this product's application.

**SAFFLOWERS – THIS PRODUCT ALONE**

**Preplant Incorporated or Preemergence:** Follow instructions for use of this product alone under **Application Procedures**.

On *coarse soils*, apply 1.0 to 1.33 pints per acre of this product if organic matter content is less than 3%, or 1.33 pints per acre if organic matter is 3% or greater. On *medium soils*, apply 1.33 to 1.67 pints per acre of this product. On *fine soils*, apply 1.33 to 1.67 pints per acre of this product if organic matter content is less than 3%, or 1.67 to 2.0 pints per acre if organic matter content is 3% or greater.

**GRAIN OR FORAGE SORGHUM (SEED TREATED WITH CONCEP®) THIS PRODUCT ALONE**

Apply this product, either preplant surface, preplant incorporated, preemergence, or postemergence using the appropriate rate specified below. Apply this product alone only when the sorghum seed has been properly treated with Concep seed treatment. Preplant or preemergence applications of this product not treated with Concep seed treatment will result in crop death.

**Fall Application for Italian Ryegrass Control:** This product may be applied for residual control of glyphosate-resistant Italian ryegrass (*Lolium multiflorum*). Apply this product at 1.33 to 1.67 pints per acre in the fall (September 1 to December 1) after harvest of the previous crop and prior to Italian ryegrass emergence. Use the lower of this product's rate for coarse-textured soils and the higher rate for fine-textured soils. A tillage operation may precede the application. Do not incorporate to a depth greater than 2 to 3 inches if tillage follows the application of this product. For fall applications after emergence of glyphosate-resistant Italian ryegrass, Gramoxone Inteon can be tank mixed with this product to control emerged ryegrass. Refer to the Gramoxone Inteon label for specific rates, application instructions, and restrictions. Other registered herbicides may be tank mixed with this product for control or improved control of other weeds present at the time of application. *Precautions:* (1) Do not apply this product to frozen ground. (2) If a spring application is made, do not apply this product or any other product containing S-metolachlor the following spring to grain or forage sorghum, or illegal residues may result.

**Preplant Surface-Applied:** Refer to instructions for use of this product under **Application Procedures** section on this label. For minimum-tillage or no-tillage systems only, apply this product up to 45 days before planting in CO, IA, IL, KS, MO, NE, and SD. Use only split applications for treatments made 30 to 45 days prior to planting, with 2/3 of the broadcast rate applied initially and the remaining 1/3 at planting. Apply 1.5 pints per acre of this product on *medium soils* or 1.67 pints per acre on *fine soils*. Treatments less than 30 days prior to planting may be made either as a split or single application. Apply 1.33 pints per acre of this product on coarse soils not more than 2 weeks prior to planting. Under dry conditions, irrigation after application is recommended to move this product into the soil.

**Preplant Incorporated or Preemergence:** Refer to instructions for use of this product under **Application Procedures** section on this label. Broadcast 1.0 to 1.33 pints per acre of this product on *coarse soils*, 1.33 to 1.5 pints per acre on *medium soils*, or 1.33 to 1.67 pints per acre on *fine soils*.

**Postemergence:** Refer to instructions for use of this product under **Application Procedures** section on this label. This product may be applied broadcast postemergence at 1.0 to 1.33 pints per acre on *coarse soils*, 1.33 to 1.5 pints per acre on *medium soils*, or 1.33 to 1.67 pints per acre on *fine soils*. This product will not control emerged weeds. Therefore, emerged weeds must be controlled by cultural or chemical means. When applied alone, this product will be safe to emerged sorghum. The risk of sorghum injury increases when adjuvants (e.g., non-ionic, crop oil), nitrogen sources (e.g., AMS, UAN), or fertilizers are applied with this product.

*Precautions: (1) If sorghum seed is not properly treated with Concep seed treatment, preplant and preemergence applications of this product will severely injure the crop. (2) Under high soil moisture conditions prior to sorghum emergence, injury may occur following preplant and preemergence application of this product. The crop will normally outgrow this effect. (3) Do not use this product on sorghum grown under dry mulch tillage, or injury may occur. (4) Except for the split preplant surface treatment, do not make more than one application per year, or illegal residues may result. (5) Do not apply this product postemergence within 75 days of harvest.*

**GRAIN OR FORAGE SORGHUM (SEED TREATED WITH CONCEP) THIS PRODUCT'S TANK MIXTURES**

This product preplant or preemergence (prior to sorghum emergence) tank mixtures with Atrazine 90 may be applied in water or fluid fertilizer. Apply this product preplant or preemergence in tank mixtures only when the sorghum seed has been properly treated with Concep seed treatment. Preplant or preemergence applications of this product to sorghum not treated with Concep seed treatment will result in crop death.

**IMPORTANT: FOR TANK MIXTURES WITH ATRAZINE 90 (OR OTHER BRANDS OF ATRAZINE) - If applying this product in tank mixture with Atrazine 90, all the restrictions and rate limitations on the Atrazine 90 label must be followed if more restrictive/protective than those on this label. In addition, if Atrazine 90 is/must be**

applied at rates lower than those recommended on this label, broadleaf weed control may be affected. Refer to the Atrazine 90 label for weeds controlled at the reduced rates.

*Precautions: (1) Applications of this product + Atrazine 90 on highly alkaline soils or on eroded areas where calcareous subsoils are exposed may cause sorghum injury. (2) If sorghum seed is not properly treated with Concep, this product + Atrazine 90 may severely injure the crop. (3) Under high soil moisture conditions prior to sorghum emergence, injury may occur following preplant and preemergence application of this product + Atrazine 90. The crop will normally outgrow this effect. (4) Do not use this product + Atrazine 90 on sorghum grown under dry mulch tillage, or injury may occur. (5) Except for the split preplant surface treatment, do not make more than one application per year, or illegal residues may result.*

**TANK MIXTURE WITH ATRAZINE 90**

In addition to the weeds controlled by this product alone, this product + Atrazine 90 also controls the following broadleaf weeds when applied either preplant surface, preplant incorporated, or preemergence: cocklebur, common purslane, hairy nightshade, lambsquarters, morningglory, ragweed, smartweed, and velvetleaf.

**Preplant Surface-Applied:** Refer to instructions for use of this product under **Application Procedures** section on this label. For minimum-tillage or no-tillage systems only, this product + Atrazine 90 may be applied up to 45 days prior to planting in IA, IL, eastern KS, MO, NE, and SD. Use only split applications for treatments made 30 to 45 days prior to planting, with 2/3 of the broadcast rate applied initially and the remaining 1/3 at planting. Apply 1.5 pints per acre of this product + 1.7 to 2.0 pounds per acre of Atrazine 90 on *medium soils* with 1.5% organic matter or greater. Apply 1.5 pints per acre of this product + 1.7 to 2.0 pounds per acre of Atrazine 90 on *fine soils* with less than 1.5% organic matter, or apply 1.67 pints per acre of this product + 2.0 to 2.2 pounds per acre of Atrazine 90 on *fine soils* with 1.5% organic matter or greater. Treatments less than 30 days prior to planting may be made either as a split or single application. Under dry conditions, irrigation after application is recommended to move this product + Atrazine 90 into the soil.

*Precautions: To avoid crop injury, (1) Do not use on coarse soils, and (2) Do not use on medium soils with less than 1.5% organic matter.*

**Preplant Incorporated or Preemergence:** Refer to instructions for use of this product under **Application Procedures** on this label. On *medium soils* with 1.5% organic matter or greater, apply 1.0 pint per acre of this product + 1.3 pounds per acre of Atrazine 90. On *fine soils* with less than 1.5% organic matter, apply 1.0 pint per acre of this product + 1.3 pounds per acre of Atrazine 90; on *fine soils* with 1.5% organic matter or greater, apply 1.2 to 1.33 pints per acre of this product + 1.6 to 1.8 pounds per acre of Atrazine 90.

*Precautions: To avoid crop injury, (1) Do not use on coarse soils; (2) Do not use on medium soils with less than 1.5% organic matter; (3) Do not use in NM, OK, or TX, except in northeast OK and the TX Gulf Coast and Blacklands areas; and (4) Do not apply preplant incorporated in AZ or the Imperial Valley of CA.*

**TANK MIXTURE OF THIS PRODUCT OR THIS PRODUCT + ATRAZINE 90, WITH GRAMOXONE INTEON, LANDMASTER BW, TOUCHDOWN BRANDS, OR MAKAZE BRANDS FOR MINIMUM-TILLAGE OR NO-TILLAGE SYSTEMS**

In minimum-tillage or no-tillage systems where sorghum (seed treated with Concep) is planted directly into a cover crop, stale seedbed, established sod, or previous crop residues, the contact herbicides Gramoxone Inteon, Landmaster BW, Touchdown, or Makaze may be tank mixed with this product or this product + Atrazine 90. See Comment No. 7 following Table 2. This product or this product + Atrazine 90 product of the tank mixture provides preemergence control of the weeds listed on this label under the respective sections.

Refer to the label of each product used in combination and observe the planting details, restrictions, and all other precautions and limitations.

**Application:** Apply before, during, or after planting, but before sorghum emerges. Add Gramoxone Inteon, Landmaster BW, Touchdown brands, or Makaze brands and apply as directed on the product labels.

**Gramoxone Inteon:** Apply as directed on the product label. This treatment will not control weeds taller than 6 inches.

**Landmaster BW:** 27 to 54 ounces per acre depending on weed species and size. See the Landmaster BW label for weeds controlled, recommended rates for specific weeds, and other information concerning use.

**Touchdown Brands or Makaze Brands:** See the Touchdown brand or Makaze brand labels for weeds controlled, recommended rates, and other use directions.

**SWEET SORGHUM (SEED TREATED WITH CONCEP)**

Apply this product preplant surface, preplant incorporated, preemergence, or postemergence using the appropriate rate specified below. Apply this product only when the sweet sorghum seed has been properly treated with Concep seed treatment. Preplant or preemergence applications of this product to sweet sorghum not treated with Concep seed treatment will result in crop death.

**Soil-Applied:** Apply this product up to 45 days before planting. Use only split applications for treatments made 30 to 45 days prior to planting, with 2/3 of the broadcast rate applied initially and the remaining 1/3 at planting. Treatments less than 30 days prior to planting may be made either as a split or single application. Under dry conditions, irrigation after application is recommended to move this product into the soil.

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**This Product Rates for Soil Applications to Sweet Sorghum**

Soil Type	30 to 45 Days Prior to Planting <sup>1</sup>	<30 Days Prior to Planting	At Planting <sup>2</sup>
Coarse	Not Recommended	1.33 pts/A	1.0 to 1.33 pts/A
Medium	1.5 pts/A	1.5 pts/A	1.33 to 1.5 pts/A
Fine	1.67 pts/A	1.67 pts/A	1.33 to 1.67 pts/A

<sup>1</sup>Use only as a split application with 2/3 of the broadcast rate applied initially and the remaining 1/3 applied at planting.

<sup>2</sup>Preplant incorporated or preemergence

**Post-Applied:** This product may be applied postemergence to sweet sorghum for residual control of grasses and small-seeded broadleaf weeds. Postemergence application to sweet sorghum may be made to crop up to 5 inches in height. This product will not control emerged weeds. Therefore, emerged weeds must be controlled by cultural or other chemical methods. When applied alone, this product will be safe to emerged sweet sorghum. Use of adjuvants is prohibited on sweet sorghum.

**This Product's Rates for Postemergence Applications to Sweet Sorghum**

Soil Type	Postemergence Rate
Coarse	1.0 to 1.33 pts/A
Medium	1.33 pts/A
Fine	1.33 pts/A

Precautions: (1) If sweet sorghum seed is not properly treated with Concep seed treatment, soil applications of this product prior to sorghum emergence will severely injure the crop. (2) Under high soil moisture conditions prior to sweet sorghum emergence, injury may occur following soil applications of this product. The crop will normally outgrow this effect. (3) Do not use this product on sorghum grown under dry mulch tillage, or injury may occur. (4) Only one application per season is allowed. This product may be applied either as a soil-applied treatment or a postemergence treatment, but not both. (5) Do not apply this product postemergence within 90 days of harvest.

**SOYBEANS – THIS PRODUCT ALONE**

Apply this product preplant surface-applied, preplant incorporated, preemergence, or postemergence using the appropriate rate specified below. Follow instructions for use of this product alone under **Application Procedures** section of this label.

**Fall Application for Spring Weed Control:**

1. Apply after September 30 in ND, SD, MN, WI, and north of Route 30 in IA.
2. Apply after October 15 north of Route 91 in NE and south of Route 30 in IA.
3. Apply after October 31 north of Route 136 in IL.

In all locations, apply to crop stubble after harvest when the sustained soil temperature at a 4-inch depth is less than 55 °F and falling. In minimum-till or no-tillage systems on soils having greater than 2.5% organic matter, use 1.67 to 2.0 pints per acre of this product on *medium-textured* and 2.0 pints per acre of this product on *fine-textured soils*. Do not apply to frozen ground. A tillage operation may precede the application. A fall and/or a spring tillage may follow application, but do not exceed an incorporation depth greater than 2 to 3 inches. Minimize furrow and ridge formation in the tillage operations.

**Restrictions:** If a spring application is made, the total rate of the fall plus spring applications must not exceed the maximum total rate for soybeans of 2.5 pints per acre depending on soil texture, or illegal residues may result.

**Fall Application for Italian Ryegrass Control:** This product may be applied for residual control of glyphosate-resistant Italian ryegrass (*Lolium multiflorum*). Apply this product at 1.33 to 1.67 pints per acre in the fall (September 1 to December 1) after harvest of the previous crop and prior to Italian ryegrass emergence. Use the lower of this product's rate for coarse-textured soils and the higher rate for fine-textured soils. A tillage operation may precede the application. Do not incorporate to a depth greater than 2 to 3 inches if tillage follows the application of this product. For fall applications after emergence of glyphosate-resistant Italian ryegrass, Gramoxone Inteon can be tank mixed with this product for control emerged ryegrass. Refer to the Gramoxone Inteon label for specific rates, application instructions, and restrictions. Other registered herbicides may be tank mixed with this product for control of improved control of other weeds present at the time of application. *Precautions: (1) Do not apply this product to frozen ground. (2) If a spring application is made, the combined total amount of this product applied in the fall plus the spring must not exceed the maximum seasonal S-metolachlor rate for soybeans (2.5 pints per acre, depending on soil texture), or illegal residues may result.*

**Preplant Surface - Spring Application:** Use on medium and fine soils with minimum tillage or no-tillage systems in CO, CT, DE, IA, IL, IN, KS, KY, MA, MD, ME, MI, MN, MO, MT, ND, NE, NH, NY, OH, PA, RI, SD, TN, VA, VT, WI, WV, and WY. Apply 2/3 the recommended rate of this product (1.67 pints per acre on *medium soils* and 2.0 pints per acre on *fine soils*) as a split treatment 30 to 45 days prior to planting and the remainder at planting. Applications made less than 30 days before planting may be as either a split or single treatment. Apply 1.33 pints per acre of this product on *coarse soils* not more than 2 weeks prior to planting.

**Restrictions:** (1) On soybeans, use up to 2.5 pints per acre of this product preplant incorporated or preemergence treatment on soils having an organic matter content between 6% and 20%. (2) The total of this product's rate applied to soybeans during any one crop should not exceed 2.5 pints per acre. (3) Do not graze or feed treated soybean forage, hay, or straw to livestock 30 days following treatment, or illegal residues may result.

**Preplant Incorporated or Preemergence:** On *coarse soils*, apply 1.0 to 1.33 pints per acre of this product if organic matter content is less than 3%, or 1.33 pints per acre if organic matter content is 3% or greater. On *medium soils*, apply 1.33 to 1.67 pints per acre of this product. On *fine soils*, apply 1.33 to 1.67 pints per acre of this product if organic matter content is less than 3%, or 1.67 to 2.0 pints per acre if organic matter content is 3% or greater.

**Restrictions:** (1) On soybeans, use up to 2.5 pints per acre of this product preplant incorporated or preemergence treatment on soils having an organic matter content between 6% and 20%. (2) The total of this product's rate applied to soybeans during any one crop should not exceed 2.5 pints per acre. (3) Do not graze or feed treated soybean forage, hay, or straw to livestock 30 days following treatment, or illegal residues may result.

**Postemergence:** Apply 1.0 to 1.33 pints per acre as a postemergence treatment to soybeans from emergence up through the third trifoliate leaf stage. This product will not control emerged weeds so it must be applied to a weed-free soil surface or in a tank mixture with products that provide postemergence control of weeds present at the time of application. Do not apply a postemergence application of this product if a preplant surface, preplant incorporated, or preemergence application of S-metolachlor products such as Dual Magnum or this product has already been applied.

**Restrictions:** To avoid possible illegal residues when this product is applied postemergence to soybeans: (1) Do not apply more than 1.33 pints per acre postemergence. (2) Make postemergence application at least 90 days before harvest. (3) Do not graze or feed treated forage or hay from soybeans to livestock following a postemergence application of this product.

**SOYBEANS – THIS PRODUCT'S COMBINATIONS**

Water or fluid fertilizer may be used as carrier for this product in combination with Metribuzin 75, Lorox, Canopy, Pursuit, Scepter, Sonalan, or Command.

**Restrictions:** For all of the following combinations, on soybeans use up to 2.5 pints per acre of this product preplant incorporated or preemergence treatment on soils having an organic matter content between 6% and 20%. The total of this product's rate applied to soybeans during any one crop year should not exceed 2.5 pints per acre.

**TANK MIXTURE WITH METRIBUZIN 75**

In addition to those weeds controlled by this product alone, this product + Metribuzin 75, when applied as directed, also controls the following broadleaf weeds: cocklebur\*, hairy nightshade, hemp sesbania, jimsonweed\*, lambsquarters, prickly sida, ragweed, smartweed, velvetleaf, Venice mallow, and wild mustard.

\*Partially controlled.

Apply this product and Metribuzin 75 preplant incorporated or preemergence, using the appropriate rates from Table 11. **Preplant Incorporated or Preemergence:** Follow instructions for use of this product alone under **Application Procedures**.

**Sequential:** Apply this product alone Preplant Incorporated, as specified in Table 11 for this tank mixture. Follow with a preemergence application of Metribuzin 75 during planting (behind the planter) or after planting, but before weeds or soybeans emerge.

Refer to the Metribuzin 75 label for planting details and soybean variety restrictions.

**Table 11: This Product + Metribuzin 75 - Soybeans**

Soil Texture**	Broadcast Rates Per Acre					
	0.5% to Less than 3% Organic Matter			3% Organic Matter or Greater		
	This Product	+	Metribuzin 75	This Product	+	Metribuzin 75
<b>COARSE</b> Loamy sand (over 2% organic matter), sandy loam	0.8 to 1.0 pt	+	0.33 lb	1.0 pt	+	0.5 lb
<b>MEDIUM</b>	1.0 to 1.33 pts	+	0.5 lb	1.33 pts	+	0.67 lb***
<b>FINE</b>	1.33 pts	+	0.67 lb	1.33 to 1.67 pts	+	0.67 lb
<b>Mississippi Delta only</b>	1.33 pts	+	1.0 lb	1.33 to 1.67 pts	+	1.0 lb
Muck or Peat (soils with more than 20% organic matter)	DO NOT USE					

\*When using Metribuzin 75 4, multiply pounds of DF by 1.5 to get pints per acre

\*\*On all sand and on loamy sand with less than 2% organic matter, do not use this tank mixture preemergence, or the sequential treatment. Do not use the tank mixture preplant incorporated on any sand, loamy sand, or sandy loam, or crop injury may occur.

\*\*\*Use 0.5 pound per acre if applied preplant incorporated.

*Precautions: (1) Do not use the tank mix or sequential application on soil with less than 0.5% organic matter or on alkaline soil with a pH over 7.4, or crop injury may occur. (2) If heavy rain occurs soon after application, crop injury may result, especially in poorly drained areas where water stands for several days.*

**Restrictions:** Follow most restrictive limitations and precautions on the **This Product - Soybeans Alone** section of this product's label and the Soybean directions on the Metribuzin 75 label.



**TANK MIXTURE WITH LOROX**

In addition to those weeds controlled by this product alone, this product + Lorox, applied preemergence, also controls the following broadleaf weeds: cocklebur\*, jimsonweed\*, lambsquarters, morningglory\*, prickly sida, ragweed, smartweed, velvetleaf\*, Venice mallow, and wild mustard.

\*Partially controlled.

**Preemergence:** Apply during planting (behind planter) or after planting, but before weeds or soybeans emerge. Refer to the Lorox label for planting details. Apply the appropriate rates from Table 12.

*Precaution: Do not use on soil with less than 0.5% organic matter, or crop injury may occur.*

**Table 12: This Product + Lorox - Soybeans**

Soil Texture*	Broadcast Rates Per Acre					
	0.5% to Less than 3% Organic Matter			3% Organic Matter or Greater		
	This Product	+	Lorax***	This Product	+	Lorax***
<b>COARSE**</b>	0.8 pt	+	1.0 lb	1.0 pt	+	1.0 to 1.5 lb
<b>MEDIUM</b>	1.0 pt	+	1.0 to 1.5 lbs	1.33 pts	+	1.5 to 2.0 lbs
<b>FINE</b>	1.33 pts	+	2.0 lbs	1.33 to 1.67 pts	+	2.5 to 3.0 lbs
Muck or Peat (soils with more than 20% organic matter)	DO NOT USE					

\*Do not use on sand, gravelly soils, or exposed subsoils.

\*\*Do not use on loamy sand, except in the northeastern U.S. on loamy sand with over 1% organic matter.

\*\*\*When using Lorox L or Lorox DF, use equivalent rates. One pint of Lorox L equals 1.0 pound of Lorox DF.

**TANK MIXTURE WITH TREFLAN**

This product + Treflan tank mix applied preplant incorporated controls those weeds listed under **This Product Applied Alone** and those weeds listed for Treflan Alone on the Treflan label. This product + Treflan may be applied by ground or aerial equipment and incorporated up to 14 days before planting. Follow the recommended procedures on the Treflan and this product's labels, using equipment that provides uniform 2-inch incorporation.

Apply this product + Treflan tank mix using the appropriate rate from the **Soybeans – This Product Alone** section of this label and the Treflan Alone section of the Treflan

label for the specific soil texture/organic matter classification and weed species expected.

To control DNA-resistant goosegrass\* and other species on the respective labels where the soil organic matter is 3% or less, apply the rate in Table 13.

**Table 13: This Product + Treflan - Organic Matter Content Less Than 3%**

Soil Texture	Broadcast Rates Per Acre		
	This Product	Treflan E.C.**	
	Organic Matter Less than 3%	Organic Matter	
		Less than 2%	2 to 3%
COARSE*	0.8 to 1.0 pt	1.0 pt	1.5 pts
MEDIUM	1.0 pt	1.5 pts	1.5 pts
FINE	1.33 pts	2.0 pts	2.0 pts

\*Where a range of rates is given for this product, use the minimum rate where DNA-resistant goosegrass is the predominant species.

\*\*When Treflan MTF or Treflan 5 is used, use comparable rates. Multiply pints of Treflan E.C. by 1 for Treflan MTF and by 0.8 for Treflan 5.

**Restrictions:** Follow the most restrictive limitations and precautions on the **Soybeans - This Product Alone** section of this product's label and the Soybean directions on the Treflan labels.

**TANK MIXTURE WITH SCEPTER**

This tank mixture controls all weeds controlled by this product alone and by Scepter alone. Refer to the **This Product Applied Alone** section for weeds controlled by this product and to the Scepter label for weeds controlled by Scepter. Refer to the Scepter label for geographical locations where this tank mixture may be applied.

Apply this product + Scepter preplant incorporated or preemergence, using rates in Table 14. Follow use directions under **Application Instructions** on the Scepter label. For preplant incorporated applications, apply and incorporate within 30 days before planting. Observe all other precautions and limitations on the Scepter labels.

**Table 14: This Product + Scepter - Soybeans**

Soil Texture	Broadcast Rates Per Acre					
	Less than 3% Organic Matter			3% or More Organic Matter		
	This Product	+	Scepter	This Product	+	Scepter
<b>COARSE</b>	0.8 pt	+	0.67 pt	1.0 pt	+	0.67 pt
<b>MEDIUM</b>	1.0 pt	+	0.67 pt	1.33 pts	+	0.67 pt
<b>FINE</b>	1.33 pts	+	0.67 pt	1.33 to 1.67* pts	+	0.67 pt
Muck or Peat (soils with more than 20% organic matter)	DO NOT USE					

\*Use the higher rate of this product if heavy weed infestations are expected.

**Restrictions:** Follow the most restrictive limitations and precautions on the **This Product Magnum- Soybeans Alone** section of this product's label and the Soybean directions on the Scepter label.

**TANK MIXTURE WITH CANOPY**

This tank mixture controls all weeds controlled by this product alone and by Canopy alone. Refer to the **This Product Applied Alone** section for weeds controlled by this product and to the Canopy label for weeds controlled by Canopy.

Apply preplant incorporated or preemergence, using the appropriate rates from Table 15. **Preplant Incorporated:** Apply within 2 weeks of planting. Uniformly incorporate into the top 1 to 2 inches of soil before planting soybeans. **Preemergence:** Apply after planting, but before soybeans emerge.

**Restrictions:** Follow the most restrictive limitations and precautions on the **This Product - Soybeans Alone** section of this product's label and the Soybean directions on the Canopy label, including varietal restrictions.

**Table 15: This Product + Canopy- Soybeans**

Soil Texture	Broadcast Rates Per Acre		
	Less than 3% Organic Matter	3% or More Organic Matter	
	This Product	This Product	Canopy
<b>COARSE</b>	0.8 pt	1.0 pt	*
<b>MEDIUM</b>	1.0 pt	1.33 pts	*
<b>FINE</b>	1.33 pts	1.33 to 1.67 pts	*

\*Refer to the Canopy label for appropriate rate according to geographical location, soil and organic matter classification, and pH limitations.

*Precaution: Do not apply to sand, or to any soil with less than 0.5% organic matter, or to any soil with pH greater than 7.0, except as noted on the Canopy label.*

**TANK MIXTURE WITH COMMAND\***

This tank mixture controls all weeds controlled by this product alone and by Command alone. Refer to the This Product Applied Alone section for weeds controlled by this product and to the Command label for weeds controlled by Command.

Apply this product + Command preplant incorporated, using rates in Table 16. Follow all Command application instructions as to incorporation interval, geographical location, equipment operation, soil moisture conditions, etc.

**\*Restrictions:** Follow the most restrictive limitations and precautions on the This Product - Soybeans Alone section of this product's label and the Soybean directions on the Command label, including rotational.

**Table 16: This Product + Command- Soybeans**

Soil Texture	Broadcast Rates Per Acre			
	This Product		Command 4E	
	0.5 to 3% Organic Matter	Greater than 3% Organic Matter	Northern Area	Southern Area
<b>COARSE</b>	0.8 pt.	1.0 pt.	1.5 to 2.0 pts.	2.0 to 2.5 pts.
<b>MEDIUM</b>	1.0 pt.	1.33 pt.	1.5 to 2.0 pts.	2.0 to 2.5 pts.
<b>FINE</b>	1.33 pts	1.33 to 1.67 pts.	1.5 to 2.0 pts.	2.0 to 2.5 pts.

**TANK MIXTURE WITH SONALAN**

This tank mixture controls all weeds controlled by this product alone and by Sonalan alone. Refer to the This Product Applied Alone section for weeds controlled by this product and to the Sonalan label for weeds controlled by Sonalan.

Apply this product and Sonalan preplant incorporated, using the appropriate rates from Table 17.

**Preplant Incorporated:** Follow recommended soil preparation procedures for Sonalan.

**Sequential:** Apply Sonalan alone preplant incorporated as specified on the Sonalan label. Follow with a preemergence application of this product during planting (behind the planter) or after planting, but before weeds or soybeans emerge.

**Table 17: This Product + Sonalan- Soybeans**

Soil Texture	Broadcast Rates Per Acre			
	Less than 3% Organic Matter		3% or More Organic Matter	
	This Product	Sonalan	This Product	Sonalan
<b>COARSE</b>	1.0 to 1.33 pts	1.25 to 2.0 pts	1.33 pts	1.25 to 2.0 pts
<b>MEDIUM*</b>	1.33 to 1.67 pts	1.75 to 2.5 pts	1.33 to 1.67 pts	1.75 to 2.5 pts
<b>FINE*</b>	1.33 to 1.67 pts	2.25 to 3.0 pts	1.67 to 2.0 pts	2.25 to 3.0 pts
Muck or Peat (soils with more than 20% organic matter)	DO NOT USE			

\*For eastern black nightshade on these soils, apply Sonalan at 3.0 pints per acre on *medium* and 3.5 pints per acre on *fine-textured soils*, and follow with 2 incorporation passes.

**Restrictions:** Follow the most restrictive limitations and precautions on the **This Product - Soybeans Alone** section of this product's label and the Soybean directions on the Sonalan label.

**TANK MIXTURE WITH PURSUIT**

This tank mixture controls all weeds controlled by this product alone and by Pursuit alone. Refer to the This Product Applied Alone section for weeds controlled by this product and to the Pursuit label for weeds controlled by Pursuit. Refer to the Pursuit label for geographical locations where this tank mixture may be applied.

Apply this product + Pursuit early preplant, preplant incorporated, or preemergence after planting, using rates in Table 18. Application can be made in water or liquid fertilizer. Follow all use directions under Soil Applications on the Pursuit label. For early preplant and preplant incorporated applications, apply within 30 days before planting.

**Restrictions:** Follow the most restrictive limitations and precautions on the **This Product - Soybeans Alone** section of this product's label and the Soybean directions on the Pursuit label, including rotational restrictions.

**Table 18: This Product + Pursuit- Soybeans**

Soil Texture	Broadcast Rates Per Acre		
	Less than 3% Organic Matter	3% or More Organic Matter	Less than 3% to 3% or more Organic Matter
	This Product	This Product	Pursuit
<b>COARSE</b>	0.8 pt	1.0 pt	0.25 pt
<b>MEDIUM</b>	1.0 pt	1.33 pts	0.25 pt
<b>FINE</b>	1.33 pts	1.33 to 1.67 pts	0.25 pt

**Sequential:** Apply this product early preplant, preplant incorporated, or preemergence after planting at 0.8 pint per acre on *coarse soils* and 1.0 pint per acre on *medium- and fine-textured soils*. Follow with a sequential postemergence application of Pursuit to control emerged weeds according to the Pursuit label. This product will improve the consistency and level of control from Pursuit on most grass species. Refer to the Pursuit postemergence label for a listing of weeds controlled, application rate, and growth stage limitations.

**TANK MIXTURE WITH METRIBUZIN 75, SCEPTER, LOROX, CANOPY, OR PURSUIT, PLUS GRAMOXONE INTEON, TOUCHDOWN BRANDS, OR MAKAZE BRANDS FOR MINIMUM-TILLAGE OR NO-TILLAGE SYSTEMS**

In minimum-tillage or no-tillage systems where soybeans are planted directly into a cover crop, stale seedbed, established sod, or previous crop residues, the contact herbicides Gramoxone Inteon, Touchdown brands, or Makaze brands may be added to a tank mix of either this product + Metribuzin 75, this product + Scepter, this product + Lorox, this product + Canopy, or this product + Pursuit. When used as directed, the Gramoxone Inteon portion of the tank mixture controls most emerged weeds and suppresses many perennial weeds. Touchdown or Makaze combinations will control emerged annual and perennial weeds when applied as directed on the Touchdown or Makaze label. This product + Metribuzin 75, Scepter, Lorox, Canopy, or Pursuit portion of the tank mixture provides preemergence control of the weeds listed on this label in the tank mixture section for this product + Metribuzin 75, this product + Scepter, this product + Lorox, this product + Canopy, and this product + Pursuit, respectively.

Refer to the label of each product used in combination and observe the planting details, soybean variety restrictions, information regarding application to soybeans, geographical restrictions, and all other precautions and limitations.

**Application:** Apply before, during, or after planting, but before the soybeans emerge. Add Gramoxone Inteon, Touchdown brands, or Makaze brands and apply as directed on the product labels.

**Gramoxone Inteon:** Apply as directed on the product label. This treatment will not control weeds taller than 6 inches.

**Restrictions:** Do not apply combinations containing Gramoxone Inteon in suspension-type liquid fertilizers, as the activity of paraquat will be reduced.

**Touchdown or Makaze:** See the Touchdown brand or Makaze brand label for weeds controlled, recommended rates, and other use directions.

Apply in 20 to 60 gallons of water or fluid fertilizer per acre with ground equipment.

**This product + Metribuzin 75 + Gramoxone Inteon, Touchdown Brands, or Makaze Brands**

On loamy sand with over 2% organic matter, apply 1.0 pint per acre of this product + 0.33 to 0.5 pound per acre of Metribuzin 75. On *medium soils*, apply 1.33 pints per acre of this product + 0.5 to 0.67 pound per acre of Metribuzin 75. On *fine soils*, apply 1.33 to 1.67 pints per acre of this product + 0.67 pound per acre of Metribuzin 75.

When using Metribuzin 75 or Lexone® 4L, multiply pounds of DF by 1.5 to get pints per acre.

*Precautions: To avoid crop injury, (1) Do not use this tank mixture on soil with less than 0.5% organic matter, on alkaline soil with a pH over 7.4, or on all sand and on loamy sand with less than 2% organic matter. (2) If heavy rain occurs soon after application, crop injury may result, especially in poorly drained areas where water stands for several days, or where the seeding slit has not been properly closed.*

**This product + Scepter + Gramoxone Inteon, Touchdown Brands, or Makaze Brands**

On *coarse soils*, apply 1.0 pint per acre of this product + 0.67 pint per acre of Scepter. On *medium soils*, apply 1.33 pints per acre of this product + 0.67 pint per acre of Scepter. On *fine soils*, apply 1.67 pints per acre of this product + 0.67 pints per acre of Scepter.

**Restrictions:** (1) Do not apply within 90 days of harvest, and (2) Do not graze or feed treated soybean forage, hay, or straw to livestock, or illegal residues may result.

**This product + Lorox + Gramoxone Inteon, Touchdown Brands, or Makaze Brands**

On *coarse soils\**, apply 1.0 pint per acre of this product + 1.0 to 1.5 pounds per acre of Lorox DF\*\*. On *medium soils*, apply 1.33 pints per acre of this product + 1.0 to 2.0 pounds per acre of Lorox DF. On *fine soils*, apply 1.33 to 1.67 pints per acre of this product + 2.0 to 3.0 pounds per acre of Lorox DF.

\*Do not use on loamy sand, except in the northeastern U.S. on loamy sand with over 1% organic matter, or injury may occur. Do not use on sand, gravelly soils, or exposed subsoils, or injury may occur.

\*\*When using Lorox L or Lorox DF, use equivalent rates. One pint of Lorox L equals 1.0 pound of Lorox DF.

*Precaution: Do not use on soil with less than 0.5% organic matter, or crop injury may occur.*

**This Product + Canopy + Gramoxone Inteon, Touchdown Brands, or Makaze Brands**

Use only where soils have 0.5 to 5% organic matter. On *coarse soils* (except sand), apply 1.0 pint per acre of this product, on *medium soils*, apply 1.33 pints per acre of this

product, and on *fine soils*, apply 1.33 to 1.67 pints per acre of this product. Refer to the Canopy label for appropriate rate, according to geographical location, soil and organic matter classification, pH limitations, and all other use directions.

*Precaution: Do not apply to sand, or to any soil with less than 0.5% organic matter, or to any soil with pH greater than 7.0, except as noted on the Canopy label.*

**This Product + Pursuit + Gramoxone Inteon, Touchdown Brands, or Makaze Brands**

On *coarse soils*, apply 1.0 pint per acre of this product + 0.25 pint per acre of Pursuit. On *medium soils*, apply 1.33 pints per acre of this product + 0.25 pint per acre of Pursuit. On *fine soils*, apply 1.67 pints per acre of this product + 0.25 pint per acre of Pursuit.

**POSTEMERGENCE USE ON SOYBEANS – THIS PRODUCT’S TANK MIXTURES**

**Tank Mixture with Glyphosate Products (e.g., Touchdown Brands or Makaze Brands)**

This product at 1.0 to 1.33 pints per acre may be tank mixed with glyphosate products at labeled rates and applied from emergence up through the third trifoliate leaf stage of Roundup Ready or glyphosate-tolerant soybeans. This product alone will not control emerged weeds. Use this treatment only on soybeans designated for use with glyphosate (e.g., Roundup Ready or glyphosate-tolerant soybeans). The glyphosate product must be registered for postemergence use in Roundup Ready or glyphosate tolerant soybeans.

**Tank Mixture with Pursuit**

This product at 1.0 to 1.33 pints per acre may be tank mixed with Pursuit at labeled rates and applied from emergence up through the third trifoliate leaf stage of soybeans. This product alone will not control emerged weeds.

**Tank Mixture with Liberty Herbicide or Ignite 280 SL**

This product at 1.0 to 1.33 pints per acre may be tank mixed with Liberty Herbicide or Ignite 280 SL Herbicide at labeled rates and applied from emergence up through the third trifoliage leaf stage of soybeans. This product alone will not control emerged weeds. Use this treatment only on soybeans designated for use with glufosinate (e.g., Liberty Link).

**Restrictions:** Follow the tank mix product label for adjuvant recommendations. The use of COC or UAN with this product may result in temporary crop injury. To avoid possible illegal residues when this product is applied postemergence to soybeans: (1) Do not apply more than 1.33 pints per acre postemergence. (2) Make postemergence application at least 90 days before harvest. (3) Do not graze or feed treated forage or hay from soybeans to livestock following a postemergence application of this product.



## SUGAR BEETS – THIS PRODUCT ALONE

### Postemergence Applications

This product may be applied postemergence to sugar beets after the sugar beets have reached the first true-leaf stage. However, because this product is primarily a soil-active herbicide, it must be applied prior to weed emergence in order to provide consistent control of listed weeds. As such, weeds that are emerged with or before the crop, or that are present at the time this product is applied, must be controlled with another appropriately labeled herbicide. Apply this product at 1.0 pint per acre on *coarse soils*, 1.33 pints per acre on *medium soils*, and 1.67 pints per acre on *fine soils*. More than one postemergence application may be applied, but the total should not exceed 2.6 pints per acre. Weeds present at the time of application will not be controlled.

**Restrictions:** To avoid possible illegal residues: (1) Do not apply more than 2.6 pints per acre postemergence. (2) Do not harvest within 60 days after the last application.

*Precaution: In coarse soils, this product applied before emergence of sugar beets (i.e., other than postemergence) may cause injury.*

## SUGAR BEETS – THIS PRODUCT TANK MIX COMBINATIONS

This product may be tank mixed with Assure® II, Betamix®, Poast®, Progress®, Intensity Post-Emergence Grass Herbicide®, Stinger®, or Upbeet® and applied to sugar beets. Tank mixtures of these products with this product will increase the risk of crop injury over that of either product applied alone, as this product's formulation has some adjuvant properties. The addition of a spray adjuvant such as crop oil concentrates (COC's) or methylated seed oils (MSO's) can further increase the risk of crop injury. Injury risk can be reduced by using the lowest effective rate of the tank mix partner(s) and/or adjuvant and by avoiding applications under adverse growing conditions or high soil or air humidity. Refer to the individual product labels and follow all use restrictions and limitations.

## SUNFLOWERS – THIS PRODUCT ALONE

### Preplant Incorporated or Preemergence

Within the rate ranges given below, use the higher rate of this product if heavy weed infestations are expected. On *coarse soils* with organic matter less than 3%, apply 1.0 to 1.33 pints per acre of this product; apply 1.33 pints per acre if organic matter is 3% or greater. On *medium soils*, apply 1.33 to 1.67 pints per acre of this product. On *fine soils* with organic matter of less than 3%, apply 1.33 to 1.67 pints per acre of this product; apply 1.67 to 2.0 pints per acre if organic matter is 3% or greater.

**Restrictions:** To avoid possible illegal residues: (1) Do not allow livestock to graze or feed in treated area. (2) Do not exceed the maximum label rates for sunflowers for the soil type.

## TOMATOES – THIS PRODUCT ALONE

### Transplanted

This product may be applied preplant incorporated or preplant before transplanting. If the latter method is used, keep soil disturbance to a minimum during the transplanting operation. Application may also be post directed to transplants after the first settling rain or irrigation. When an application is made post-directed, apply in a minimum of 20.0 gallons of water per acre and minimize contact with tomato plants. This product will not control emerged weeds. In bedded transplanted tomatoes, apply this product preplant non-incorporated to the top of the pressed bed as the last step prior to laying plastic. This product may also be used to treat row-middles in bedded tomatoes, as long as the total amount of this product does not exceed the maximum allowed per crop.

### Seeded

This product may be applied post-directed to direct-seeded tomatoes. Tomato plants must be at least 4 inches tall at the time of application, and the product must be applied in a minimum of 20.0 gallons of water per acre. Minimize spray contact with tomato plants. This product will not control emerged weeds.

**Tomato Use Rates:** On *coarse soils*, apply 1.0 to 1.33 pints per acre of this product if organic matter is less than 3% or 1.33 pints per acre if organic matter is 3% or greater. On *medium soils*, apply 1.33 to 1.67 pints per acre of this product. On *fine soils*, apply 1.33 to 1.67 pints per acre of this product if organic matter is less than 3% or 1.67 to 2.0 pints per acre if organic matter is 3% or greater.

*Precautions: (1) Do not apply to varieties or cultivars with unknown tolerance to this product. (2) This product may damage transplants that have been weakened by any cause. To prevent damage, plant only healthy transplants. Do not plant when wet, cool, or unfavorable growing conditions exist. (3) In transplanted tomatoes, if this product is applied preplant incorporated, incorporate to a depth less than the depth of transplanting, and use the lower end of the rate range for the given soil type, or damage may occur. (4) For row-middle applications where tomatoes are grown on sandy soils and where high soil moisture conditions can exist (e.g., low binding and high evaporation conditions), as may be found in the States of Florida, Georgia, Maryland, and Virginia, there is potential for crop injury in the form of leaf epinasty. The risk of this type of injury can be reduced by: a) incorporating this product immediately following application, b) applying this product 7 or more days before transplanting (but only after the beds have been formed), c) minimizing the application of this product onto the plastic of the bed, or d) any combination of the above.*

**Restrictions:** To avoid possible illegal residues: (1) Do not exceed the maximum label rate for the soil texture per year. (2) Apply only by ground application.

**Restrictions:**  
**90-Day PHI - If the single application rate of this product is greater than 1.33 pints per acre (up to 2.0 pints per acre), do not harvest tomatoes within 90 days of**

application.

**30-Day PHI** - If the application of this product does not exceed 1.33 pints per acre, do not harvest tomatoes within 30 days of application.

When applying at 1.33 pints per acre with a 30-day PHI, the following restrictions apply:

- Do not exceed two applications per growing season.
- The use of adjuvants is prohibited.
- Applications may be made using ground equipment, in concentrated spray volumes.
- Applications may be made as a foliar broadcast spray to the soil within 1 week of transplanting and again at blooming/fruiting to the row middles as a banded/directed application 38 to 77 days after the first treatment.

### STORAGE AND DISPOSAL

#### Pesticide Storage

This product may be stored at temperatures down to 30 degrees below 0°F.

#### Pesticide Disposal

Do not contaminate water, food, or feed by storage or disposal. Open Dumping is prohibited. Wastes resulting from the use of this product are toxic. Improper disposal of unused pesticide, spray mixture, or rinsate is a violation of federal law. Pesticide, spray mixture, or rinsate that cannot be used according to label instructions must be disposed of according to federal, state, or local procedures. For guidance in proper disposal methods, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office.

#### CONTAINER HANDLING:

**Nonrefillable container.** Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact The Agricultural Container Recycling Council (ACRC) at [www.acrecycle.org](http://www.acrecycle.org). If not recycled, then puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

**For packages up to 5 gallons: Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. **Pressure rinse as follows:** Empty the remaining contents into application

equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**For packages greater than 5 gallons and less than 56 gallons: Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**For packages greater than 56 gallons:** 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 percent 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.

**For refillable containers:** Refill this container with this product 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 percent 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. For final disposal, offer for recycling or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

**For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC – 1-800-424-9300.**

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**BEFORE BUYING OR USING THIS PRODUCT**, read the entire Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability. By buying or using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of LOVELAND PRODUCTS, INC. or the seller is authorized to vary in any way.

Follow the Directions for Use of this product carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop or other plant injury, ineffectiveness, or

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