



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

January 4, 2023

Anna Hale  
Registration Manager  
Drexel Chemical Company  
P.O. Box 13327  
Memphis, TN 38113-0327

Subject: Registration Review Label Amendments Incorporating Mitigation Measures from the Interim Decision for Metolachlor and the National Marine Fisheries Services' (NMFS) Biological Opinion on the Effects of Metolachlor on Pacific Salmonids  
*Product Name:* Drexel Me-Too-Lachlor III Herbicide  
*EPA Registration Number:* 19713-556  
*Application Date:* March 30, 2021, and July 12, 2021  
*Decision Number:* 572798 and 577108

Dear Ms. Hale:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Metolachlor Interim Decision. The Agency has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

This letter also addresses the label mitigation resulting from the NMFS' Biological Opinion on the effects of Metolachlor on Pacific salmonids. The Agency has concluded that your submission is also acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

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

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 12 months from the date of this letter. After 12 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

If you have any questions about this letter, please contact Carolyn Smith at [smith.carolyn@epa.gov](mailto:smith.carolyn@epa.gov).

Sincerely,



Linda Arrington, Branch Chief  
Risk Management and Implementation Branch 4  
Pesticide Re-Evaluation Division  
Office of Pesticide Programs

Enclosure

**ACCEPTED**

Jan 04, 2023

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 19713-556

METOLACHLOR GROUP 15 HERBICIDE

**Drexel**

# Me-Too-Lachlor™ III

Herbicide

For weed control in Field Corn and Popcorn.

**ACTIVE INGREDIENT:**

Metolachlor: 2-chloro- N-(2-ethyl-6methylphenyl)-N-(2-methoxy-1-methylethyl) acetamide ..... 84.1%

**OTHER INGREDIENTS:** ..... 15.9%

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

This product contains 7.8 pounds of Metolachlor active ingredient per gallon.

**KEEP OUT OF REACH OF CHILDREN**

## CAUTION

(See **FIRST AID** Below)  
(See Side (Back) Panel for **FIRST AID**);  
(See Page \_\_\_ for **FIRST AID**)  
(See Container Labeling for (**FIRST AID** and **Complete Directions for Use**) (See (Attached) Booklet (Container Labeling) for **Complete Directions for Use**) (**SHAKE WELL BEFORE USING**);  
(Recirculate Contents Before Use)

EPA Reg. No. 19713-556 Net Content:  
EPA Est. No. 19713-XX-X \_\_\_\_\_ Gals. (\_\_\_\_ L)

**FIRST AID**

**IF INHALED:**

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

**IF ON SKIN OR CLOTHING:**

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

**IF IN EYES:**

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

**IF SWALLOWED:**

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious or convulsing person.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**EMERGENCY PHONE NUMBERS:**

- (800) 424-9300 CHEMTREC (transportation and spills)
- (800) 900-4044 Poison Control Center (human health)
- (800) 345-4735 ASPCA (animal health)

**PRECAUTIONARY STATEMENTS**

**Hazards to Humans and Domestic Animals**

**CAUTION:** Harmful if swallowed. Causes moderate eye irritation. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Avoid contact with eyes or clothing. Wear protective eye wear. Wear long-sleeved shirt and long pants, socks, shoes and gloves.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

**Applicators and other handlers must wear:**

- Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves made of barrier laminate or viton ≥ 14 mils
- Chemical-resistant footwear plus socks
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when cleaning equipment

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)]. When using the closed system, the PPE requirements for mixers and loaders 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.

Manufactured By:



**Drexel Chemical Company**

P.O. TN **SINCE 1972** Box 13327, Memphis, 38113-0327

ME-TOO-LACHLOR and the DREXEL logo are either trademarks or registered trademarks of Drexel Chemical Company.

## USER SAFETY RECOMMENDATIONS Users

**should:** 1) Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. 2) Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. 3) Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

## ENVIRONMENTAL HAZARDS

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

Reporting Ecological Incidents:

To report ecological incidents, including mortality, injury, or harm to plants and animals, call 1-901-774-4370.

### Groundwater Advisory

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

### Surface Water Advisory

This product may impact surface water quality due to runoff of rain water.

This is especially true for poorly draining soils and soils with shallow groundwater. This product is classified as having high

potential for reaching surface water via runoff for several weeks or months after application. A level, well maintained, vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams and springs will reduce the potential loading of Metolachlor from runoff water and sediment. Runoff of this product will be reduced by avoiding application when rainfall or irrigation is expected to occur within 48 hours.

### 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.

### NON-TARGET ORGANISMS ADVISORY

This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of non-target organisms by following label directions intended to minimize spray drift.

## DIRECTIONS FOR USE

### ENDANGERED SPECIES PROTECTION REQUIREMENTS:

It is a Federal offense to use any pesticide in a manner that results in an unauthorized "take" (e.g. kill or otherwise harm) of an endangered species and certain threatened species, under the Endangered Species Act section 9. When using this product, you must follow the measures contained in the Endangered Species Protection Bulletin for the area in which you are applying the product. You must obtain a Bulletin no earlier than six months before using this product. To obtain Bulletins, consult <http://www.epa.gov/espp/>, call 1-844-447-3813, or email [ESPP@epa.gov](mailto:ESPP@epa.gov). You must use the Bulletin valid for the month in which you will apply the product.

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

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

## AGRICULTURAL USE REQUIREMENTS Use

this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about Personal Protective Equipment (PPE) and restricted-entry interval.

The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

**Do not enter or allow worker entry into treated areas during the Restricted-Entry Interval (REI) of 12 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 made of barrier laminate or viton
- Shoes plus socks

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

## HERBICIDE RESISTANCE MANAGEMENT

METOLACHLOR	GROUP	15	HERBICIDE
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For resistance management, this product is a Group 15 mode of action herbicide. Any weed population may contain or develop plants naturally resistant to this product and other Group 15 mode of action herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Appropriate resistance management strategies should be followed.

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

- Rotate the use of this product or other Group 15 mode of action herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank-mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available, use the less resistance-prone partner at a rate that will control the target weed(s) equally as well as the more resistance-prone partner. Consult your local extension service or certified crop advisor if you are unsure as to which active ingredient is currently less prone to resistance.
- Adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information related to herbicide use and crop rotation, and that considers tillage (or other mechanical control methods), cultural (e.g., higher crop seeding rates; precision fertilizer application method and timing to favor the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Scout after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method such as hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.

- Contact your local extension specialist or certified crop advisors for additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact Drexel Chemical Company representatives at (901) 774-4370.

#### A. GENERAL INFORMATION

Observe all use 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.

Me-Too-Lachlor III Herbicide is a selective herbicide recommended as a pre-plant surface-applied, pre-plant incorporated, or preemergence treatment in water or fluid fertilizer for control of most annual grasses and certain broadleaf weeds in Field corn and Popcorn.

**Note:** 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 non-target 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 non-target crops unless at least one-half inch of rainfall has occurred between application and the first irrigation. Where directions on this label specify a tank-mixture with Atrazine follow the rates, recommendations, and limitations on the Atrazine product label.

**Note:** 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 pre-emergence 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.

#### 1) 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:

<u>Coarse</u>	<u>Medium</u>	<u>Fine</u>
Sand	Loam	Sandy clay loam
Loamy sand	Silt loam	Silty clay loam
Sandy loam	Silt	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.

**Note:** This product may be applied pre-emergence alone, or in combination with tank-mix partners specified on this label, following pre-plant 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.

#### 2) 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-fourth full with water, and start agitation; add 2,4-D, Atrazine, Banvel®, Lorox®, Marksman®, Sim-Trol®, Prowl®, or Atrazine + Sim-Trol, and allow it to become dispersed; then add this product, then add Gramoxone® Extra, Landmaster® BW, or Roundup®, if these products are being used; and finally the rest of the water. For tank-mixtures with Atrazine, Banvel, Lorox, Marksman, Sim-Trol, Prowl\*, or Atrazine + Sim-Trol, fluid fertilizers may replace all or part of the water as carrier, except in the Atrazine postemergence and the Banvel post-emergence tank-mixes. For tank-mixtures with Atrazine, see additional mixing instructions on the Atrazine label. For each mixture, check compatibility with fluid fertilizer, as described in **Appendix A**, 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 Atrazine or Sim-Trol + Prowl under the appropriate tank-mixture section. For directions on how to conduct a compatibility test, see **Appendix A**.

#### 3) APPLICATION PROCEDURES Application Timing

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

- Pre-plant Surface-Applied:** For minimum-tillage or no-tillage systems only, this product alone and some tank-mixtures of this product may be applied up to 45 days before planting. Use only split applications for treatments made 30 to 45 days before planting, with two-thirds 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. If weeds are present at the time of treatment, apply in a tank-mixture combination with a contact herbicide (for example, Gramoxone Extra or Roundup). Observe directions for use, 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.
- Pre-plant 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 pre-plant incorporated application if furrow irrigation is used or when a period of dry weather after application is expected. If Field corn and Popcorn will be planted on beds, apply and incorporate this product after bed formation, unless specified otherwise.
- Pre-emergence:** Apply this product during planting (behind the planter) or after planting, but before weeds or Field corn and Popcorn emerge.

#### 4) SPECIAL APPLICATION PROCEDURES

**A) CA Only (Field corn and Popcorn)—Pre-plant 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). Field corn and Popcorn may be planted on flat surface or on beds. Caution should be used 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.

**Pre-emergence:** Apply this product after planting. Water with sprinkler or flood irrigation within 7 to 10 days. **Fall Application (Only in IA, MN, ND, SD, WI, and portions of NE and IL - see specific instructions 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 Field corn or Popcorn 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. **Note:** 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.

**Ground Application:** Apply this product alone or in tankmixtures by ground equipment in a minimum of 10 gallons of spray mixture per acre, unless otherwise specified.

Use sprayers that provide accurate and uniform application. For tank-mixtures of this product 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.

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

**Note:** For information on applying in lower volumes of carrier, see "LOW CARRIER APPLICATION" in **Appendix B**.

For application by air or through center pivot systems, see

**Appendices C and D.** **Appendix C** includes "MANDATORY SPRAY DRIFT MANAGEMENT" and "SPRAY DRIFT ADVISORIES" sections.

For information on impregnating dry fertilizer, see **Appendix E**.

## B. THIS PRODUCT APPLIED ALONE

### 1) WEEDS CONTROLLED

Barnyardgrass (Watergrass)	Foxtail millet Galinsoga	Signalgrass ( <i>Brachiaria</i> )
Bristly foxtail	Giant foxtail	Southwestern cupgrass
Carpetweed	Goosegrass	Tall waterhemp
Common waterhemp	Green foxtail	Wild proso millet*
Crabgrass	Pigweed	Witchgrass
Crowfootgrass	Prairie cupgrass	Woolly cupgrass*
Eastern black nightshade	Red rice	Yellow foxtail
Fall panicum	Robust foxtails (purple, white)	Yellow nutsedge
Florida pusley		

\*For control of these weeds in Field corn and Popcorn only, refer to the "WOOLLY CUPGRASS" and "WILD PROSO MILLET CONTROL PROGRAM" section of this label.

### WEEDS PARTIALLY CONTROLLED\*:

Common purslane	Sandbur	Volunteer sorghum
Eclipta Seedling	Johnsongrass	Wild proso millet
Florida beggarweed**	Shattercane	Woolly cupgrass
Hairy nightshade	Texas panicum***	

\*See "GENERAL INFORMATION" section. Control of these weeds can be erratic, due partially to variable weather conditions. Control may be improved by following these suggested procedures:

- 1) In Field corn and Popcorn use 2 to 2.67 pints per acre or the pre-plant surface-applied rates for this product alone or in tank-mixture, if allowed, when making pre-plant incorporated or pre-emergence applications.
- 2) Thoroughly till moist soil to destroy germinating and emerged weeds. If this product is to be applied pre-plant incorporated, this tillage may be used to incorporate this product if uniform 2 inch incorporation is achieved as recommended under "APPLICATION PROCEDURES".
- 3) Plant Field corn and Popcorn into moist soil immediately after tillage. If this product is to be used pre-emergence, apply at planting or immediately after planting.
- 4) If available, sprinkler irrigate within 2 days after application. Apply one-half to 1 inch of water. Use lower water volume (one-half 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.
- 5) 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.

\*\*For partial control of this weed, use a minimum of 2 pints per acre and apply pre-emergence.

\*\*\*For partial control of this weed, use a minimum of 2 pints per acre and apply through a center pivot irrigation system.

### 2) ROTATIONAL CROPS

**This Product Alone:** (1) If Field corn or Popcorn crop treated with this product alone is lost, either Field corn or Popcorn may be replanted immediately. Do not make a second broadcast application of this product. If the original application was banded and the second crop is planted in the untreated row middles, a second banded treatment may be applied. (2) Barley, Oats, Rye, or Wheat may be planted 4.5 months following treatment; Alfalfa may be planted 4 months following application. Tomatoes may be planted 6

months following application. (3) Field corn and Popcorn, in addition to Cotton, Peanuts, Pod crops, Potatoes, Safflower, Grain or Forage sorghum, Soybeans, Root crops, Tobacco, Barley, Buckwheat, Milo, Oats, Rice, Rye, Wheat, Cabbage, or Peppers, may be planted in the Spring following treatment. Cloer may be seeded 9 months following application. Do not graze or feed forage or fodder from Cotton to livestock. (4) Following a lay-by treatment or multiple treatments applied the previous season, Field corn and Popcorn in addition to Tobacco, Cabbage, or Peppers may be planted in the Spring. All other rotational crops may be planted 12 months after a lay-by application.

### This Product In Tank-Mixtures:

For **Rotational Crop** restrictions for this product used in tank-mixtures, refer to the statements/restrictions above for this product and to the respective product labels of any mixing partner(s) for additional statements/restrictions. **Important Notes:** To avoid injury to rotational Alfalfa or Clover: (1) Do not apply more than 2 pounds a.i. of Metolachlor per acre (2 pts. of this product) pre-emergence (including pre-plant surface, pre-plant incorporated, post-plant incorporated, etc.), and (2) Do not make lay-by or other post-emergent applications of this product.

### C. FIELD CORN AND POPCORN — THIS PRODUCT ALONE

Apply this product either pre-plant surface, pre-plant incorporated or pre-emergence using the appropriate rate specified below.

#### 1) PRE-PLANT SURFACE-APPLIED

Refer to instructions for use of this product alone under "APPLICATION PROCEDURES".

- a. **Fall Application (Apply after September 30 in MN, ND, SD, WI and north of Route 30 in IA; Apply after October 15 north of Route 91 in NE and south of Route 30 in IA; 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 pints per acre on *Medium-textured* and 2 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. Note: If a Spring application is made, the total rate of the Fall plus Spring applications must not exceed the maximum total rate for Field Corn and Popcorn, or illegal residues may result.

- b. 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 pts./A on *Medium soils* and 2 pts./A 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 prior to planting.
- c. 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, pre-plant 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 post-emergence application of an appropriately labeled broadleaf and/or grass weed herbicide may be used, i.e., Atrazine, Beacon®, Bicep®, Exceed®, Accent®, Banvel®, Basagran®, bromoxynil (Brominal® or Buctril®), or 2,4-D. If the post-emergence treatment includes the herbicide used pre-plant surface applied, do not exceed the total labeled rate for Field corn and Popcorn on a given soil texture. Observe all directions for use, use precautions, and limitations on the label of the post-emergent herbicide.

#### 2) PRE-PLANT INCORPORATED OR PRE-EMERGENCE

Follow instructions for use of this product alone under **Application Procedures**. On *Coarse soils*, apply 1 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 pints per acre if organic matter content is 3% or greater. **Lay-by:** To extend the duration of weed control in Field corn and Popcorn, a maximum rate of 2 pints per acre of this product may be applied after Corn emergence until the Corn plants reach 40 inches in height, following any pre-plant surface-applied, pre-plant incorporated, or pre-emergence herbicide application, including this product. For best results, applications should be made to soil free of emerged weeds and directed towards the base of Corn plants in excess of 5 inches tall. The total rate of this product applied on Field corn and Popcorn during any one crop year should not exceed 4 pints per acre, depending on soil texture.

**Note for all applications to Field corn and Popcorn:** To avoid possible illegal residues, do not graze or feed forage from treated areas for 30 days following application.

**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 2 to 2.55 pints per acre as a single application; or apply 1 to 1.33 pints per acre of this product pre-plant incorporated followed by 1 to 1.33 pints per acre of this product pre-emergence; however, do not apply more than a total of 2.55 pints per acre. Make the pre-emergence application during or after planting, but before weeds and Corn plants 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 pre-plant, pre-plant incorporated, or pre-emergence at 1.67 pints per acre on *Medium soils* and 2 pints per

acre on any soil for extended residual control and where severe stands of problem weeds are expected.

- 3) In the event of escape of annual weeds following a pre-plant surface, pre-plant incorporated, or pre-emergence treatment of this product, follow with a post-emergence application of an appropriately labeled broadleaf and/or grass weed herbicide, i.e., Accent, Atrazine, Banvel, Basagran, Beacon, Bicep, Bromoxynil (Brominal or Buctril), Exceed, or 2,4-D. If the post-emergence treatment includes the herbicide used in earlier treatment, i.e., Atrazine, do not exceed the total labeled rate for Field corn and Popcorn on a given soil texture.
- 4) Brominal or Buctril may be applied post-emergence alone or in tank-mix combination with Atrazine. Do not exceed 1.2 pounds of Atrazine per acre in tank-mix combination with Brominal or Buctril post-emergence. Refer to the Atrazine, Brominal, and Buctril labels for specific rates and use precautions. 5) Do not use this product on *Peat* or *Muck soils*.

**D. FIELD CORN AND POPCORN - Me-Too-Lachlor III Herbicide**

**Chart 1: This Product in Tank-Mixtures for Field corn and Popcorn — Additional Weeds Controlled and Special Instructions**

	This Product + Atrazine and/or Sim-Trol (Pre-plant Surface, PPI, PRE)	This Product + Atrazine (Post)	This Product + Banvel (Field Corn)	This Product + Atrazine + Lorox	This Product + Atrazine or Sim-Trol + Prowl	This Product + Marksman
Section	D1	D2	D3	D4	D5	D8
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
Browntop panicum	a			a	a	
Cocklebur	a	b	b	a	a	a
Common purslane	a			a	a	a
Hairy nightshade	a			a	a	a
Jimsonweed		a	b			a
Kochia		a				a
Lambsquarters	a	a	a	a	a	a
Morningglory	a	b	b	a	a	a
Mustard		a				a
Pigweed				a	a	a
Prickly sida		a				a
Ragweed	a	a	a	a	a	a
Smartweed	a	a	a	a	a	a
Velvetleaf	a	a	b	a	a	a

a = control; b = partial control

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 post-emergence 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 quart of crop oil concentrate plus 1 gallon per acre of 28% nitrogen, or the equivalent amount of ammonium sulfate, when grasses are 2 to 3 inches tall and the Field corn and Popcorn is at least 4 inches tall. 3) Cultivate 14 to 21 days after the post-emergence application.

**Notes:**

- 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 Field corn and Popcorn, this product may be used up to 2.75 pints per acre as either a pre-plant surface, pre-plant incorporated, or pre-emergence treatment on soils having an organic matter content between 6% and 20% or up to 2 pints per

**Combinations**

This product in any tank-mixture for Field corn and Popcorn (except this product + Atrazine post-emergence and this product + Banvel post-emergence) may be applied in water or fluid fertilizer. Use only water in this product + Atrazine or this product + Banvel post-emergence tank-mixes.

**Note:** For all applications to Field corn and Popcorn, do not graze or feed forage from treated areas for 30 days following application, or possible illegal residues may result.

**IMPORTANT: FOR TANK-MIXTURES WITH ATRAZINE (OR OTHER BRANDS OF ATRAZINE) — If applying this product in tank-mixture with Atrazine, all the restrictions and rate limitations on the Atrazine label must be followed if more restrictive / protective than those on this label. In addition, if Atrazine is / must be applied at rates lower than those recommended on this label, broadleaf weed control may be affected. Refer to the Atrazine label for weeds controlled at the reduced rates.**



**COMMENTS — Chart 1: This Product In Tank-Mixtures**

**1) Special Mixing Instructions for this product + Atrazine or Sim-Trol and Prowl.**

(1) Fill the spray tank one-quarter 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 pints per 100 gallons of spray mixture. (3) Then add the Atrazine or Simazine and allow it to become dispersed. (4) Then add this product and Prowl 4E. (5) Add the rest of the water.

**2) Although a single formulation for Atrazine or Sim-Trol is listed in the rate tables, other formulations may be substituted using the following formula:**

- 1 pound of Atrazine 90DF or Sim-Trol 90DF = 1.8 pints of Atrazine 4L or Sim-Trol 4L

3) Although directions specify Atrazine 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 label.

5) **Use Precautions:** Do not exceed a total of 2.5 pounds a.i. 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 pound of Lorox DF = 1 pint of Lorox 4L

7) In Minimum-Tillage and No-Tillage systems, mix with Gramoxone Extra 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 Roundup for control of most emerged annual and perennial weeds.

8) Refer to label section D7 on specific directions for 2,4-D or Banvel burndown combinations in Minimum-Tillage and No-Tillage systems.

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

**Notes:**

1) For all applications to Field corn and Popcorn, do not graze or feed forage from treated areas for 30 days following application, or possible illegal residues may result.

2) When applying this product in tank-mixture with Atrazine, do not exceed a total of 2.5 pounds a.i. of Atrazine per acre per year.

3) Refer to section “C. FIELD CORN AND POPCORN — THIS PRODUCT ALONE”, Note 3 for recommended sequential post-emergence treatments if escape weeds develop.

4) In Field corn and Popcorn, this product may be used up to 2 pints per acre in combinations on any soil for extended residual control and where severe stands of problem weeds are expected.

**1. TANK-MIXTURE WITH ATRAZINE OR SIM-TROL, OR ATRAZINE + SIM-TROL — PRE-PLANT SURFACE, PRE-PLANT INCORPORATED OR PRE-EMERGENCE**

In addition to the weeds controlled by this product alone, this product + Atrazine or Sim-Trol, or this product + Atrazine + Sim-Trol, applied pre-plant surface, pre-plant incorporated, or pre-emergence, also controls the following weeds: Browntop panicum, Cocklebur, Common purslane, Hairy nightshade, Lambsquarters, Morningglory, Ragweed, Smartweed, and Velvetleaf. Apply this product + Atrazine or Sim-Trol, or this product + Atrazine+ Sim-Trol either pre-plant surface, pre-plant incorporated, or pre-emergence.

**Pre-plant Surface-Applied:** Follow instructions for use of this product alone under “APPLICATION PROCEDURES” and under application instructions for this product alone on Field corn and Popcorn. Apply this product + Atrazine or Sim-Trol, or this product + Atrazine + Sim-Trol on *Medium soils* (1.67 pts./A of this product + 3.2 to 4 pints per acre of Atrazine 4L or Sim-Trol 4L, or Atrazine 4L + Sim-Trol 4L combined) and on *Fine soils* (1.67 to 2 pts./A of this product + 4 to 5 pts./A of Atrazine 4L, or Sim-Trol 4L, or Atrazine 4L + Sim-Trol 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 PRE-PLANT SURFACE-APPLIED” section of the label. On *Coarse soils*, apply

1.33 pints per acre of this product and 3.2 pints per acre of Atrazine 4L or Sim-Trol 4L, or Atrazine 4L + Sim-Trol 4L combined.

**Pre-plant Incorporated or Pre-emergence:** Follow instructions for use of this product alone under “APPLICATION PROCEDURES”. Apply this product + Atrazine or Sim-Trol, or this product + Atrazine + Sim-Trol, using the appropriate rates from **Table 1**.

**Note:** 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, Wild Proso Millet, Woolly Cupgrass, and Eclipta — Partial Control**

For more consistent partial control of Shattercane, Wild proso millet, Woolly cupgrass, or Eclipta, where this product is applied in tank-mixture or sequentially with other registered Field corn and Popcorn herbicides apply 2 to 2.33 pints as a single application or, the following applications may be made:

1) Apply 1 to 1.33 pints per acre of this product plus 2 pounds per acre of Atrazine or Sim-Trol pre-plant incorporated, followed by 1 to 1.33 pints per acre of this product preemergence. Make the pre-emergence 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 pounds per acre of Atrazine or Sim-Trol pre-plant incorporated. Do not exceed the total rate of Triazine herbicide recommended for Field corn and Popcorn grown on a given soil texture. Follow with a postdirected 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 Sutan® (or equivalent EPTC or butylate formulations) at labeled rates pre-plant incorporated, followed by a pre-emergence application of this product at 1 to 1.33 pints per acre. Do not use EPTC or Butylate on soils where rapid degradation has been shown to occur. Make the preemergence application during or after planting, but before weeds and Corn emerge.

**Use Precaution:** When following the application regimes in numbers 1 to 3 above, a shallow cultivation may be needed after the pre-emergence or post-emergence application to help control any late emerging Shattercane or Wild proso millet plants.

**2. TANK-MIXTURE WITH ATRAZINE — POST-EMERGENCE**

Weeds Controlled			Weeds Partially Controlled
Barnyardgrass	Green foxtail	Prickly sida	Cocklebur
(Watergrass)	Jimsonweed	Purslane	Morningglory
Crabgrass	Kochia	Ragweed	Yellow nutsedge
Crowfootgrass	Lambsquarters	Smartweed	
Fall panicum	Mustard	Velvetleaf	
Giant foxtail	Pigweed	Yellow foxtail	

Apply 1 pint per acre of this product + 1.3 pounds per acre of Atrazine 90DF\* on *Coarse soils*, 1.33 pints per acre of this product + 1.8 pounds per acre of Atrazine 90DF 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 90DF on *Fine soils*. Apply this tank-mixture before grass and broadleaf weeds pass the 2 leaf stage and before Field corn and Popcorn exceeds 5 inches in height. Application to weeds larger than the 2 leaf stage will generally result in unsatisfactory control.

**Lay-by:** Apply to Field corn and Popcorn 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 post-emergence tank-mixture in fluid fertilizer, or severe crop injury may occur. \*When using Atrazine 4L, use equivalent rates. One pound of Atrazine 90DF equals 1.8 pints of Atrazine 4L.

\*\*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 90DF, or equivalent rate of Atrazine 4L, with 1.33 to 1.67 pints per acre of this product.

**Table 1: This Product + Atrazine or Sim-Trol, or This Product + Atrazine + Sim-Trol, Pre-plant Incorporated or Pre-emergence — Corn (Field, Pop)**

Soil Texture	Broadcast Rates Per Acre
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	Less Than 3% Organic Matter		3% Organic Matter or Greater	
	This Product + Atrazine 90DF* OR Sim-Trol 90DF*	- OR - This Product + Atrazine 90DF** OR +Sim-Trol 90DF**	This Product + Atrazine 90DF* OR Sim-Trol 90DF*	- OR - This Product + Atrazine 90DF** OR + Sim-Trol 90DF**
<b>COARSE</b>	0.85 to 1.0 pt. + 1.1 to 2.2 lbs.	0.85 to 1.0 pt. + 0.6 to 1.1 lbs. + 0.6 to 1.1 lbs.	1.0 pt. + 1.3 to 2.2 lbs.	1.0 pt. + 0.7 to 1.1 lbs. + 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. + 0.7 to 1.1 lbs.	1.33 pts. + 1.8 to 2.2 lbs.	1.33 pts. + 0.9 to 1.1 lbs. + 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. + 0.9 to 1.1 lbs.	1.33 to 1.67 pts. + 1.8 to 2.2 lbs.***	1.33 to 1.67 pts. + 0.9 to 1.1 lbs.*** + 0.9 to 1.1 lbs.
Muck or Peat (soils with more than 20% organic matter)	DO NOT USE			

\*Use Sim-Trol in preference to Atrazine 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 pts./A in tank-mix combination with 2.2 lbs./A of Atrazine 90DF, or equivalent rates of Atrazine 4L. Refer to the Atrazine label for weeds controlled at this reduced rate.

\*\*When using the tank-mixture of this product + Atrazine 90DF + Sim-Trol 90DF, 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 + Sim-Trol, instead of the 1:1 ratio given in Table 1. (Example: Total Atrazine 90DF + Sim-Trol 90DF = 1.2 lbs./A, use 0.4 lb. of Atrazine 90DF + 0.8 lb. of Sim-Trol, 90DF respectively.) Refer to Comment No. 2 following Chart 1 for Sipcarn, Atrazine 4L and Sim-Trol 4L conversions.

\*\*\*For Cocklebur, Yellow nutsedge, and Velvetleaf control on *Fine-textured soils* above 3% organic matter, apply 2.25 lbs./A of Atrazine 90DF, or equivalent rates of Atrazine 4L, or the same total amount of Atrazine + Sim-Trol with 1.33 to 1.67 pts./A of this product.

Tank-mixtures of this product + Atrazine may be applied following use of any registered pre-plant surface-applied, pre-plant incorporated, or pre-emergence Field corn and Popcorn herbicide, including this product + Atrazine.

**Note:** The total rate of this product should not exceed 4 pints, nor the Atrazine rate more than 2.5 lbs. a.i./A during any one crop year, or illegal residues may result. Refer to the Atrazine label for geographic, soil-texture and rotational restrictions.

### 3. TANK-MIXTURE WITH BANVEL

**Pre-emergence:** 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 alone, this product + Banvel, applied pre-emergence, also controls Lambsquarters, Ragweed, Smartweed, Cocklebur\*, Jimsonweed\*, Morningglory\*, and Velvetleaf\* \*Partially controlled.

Apply this product + Banvel pre-emergence. Broadcast 1 pint per acre of Banvel 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 Field corn emerges. Plant seed 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 Field corn plants emergence. If it is necessary to rotary hoe to break the soil crust, do not disturb the soil more than one-half inch deep. **Use Precautions:** (1) Avoid drift to sensitive non-target plants, such as Soybeans, during application, or injury may occur. (2) Do not apply with aircraft.

**Post-emergence for Control of Pigweed (Mid-Atlantic states including DE, MD, PA, VA, and WV):** Apply 1 to 1.5 pints of this product + one-half to 1 pint per acre of Banvel by ground equipment when Pigweed plants are less than 3 inches tall and before Field corn exceeds 5 inches in height in a minimum of 20 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.

Banvel SGF® and Clarity® may be used at equivalent pounds of active ingredient per acre.

**Use Precautions:** (1) Avoid drift to sensitive non-target plants, such as Soybeans, during application, or injury may occur. (2) Do not apply with aircraft.

### 4. TANK-MIXTURE WITH ATRAZINE AND LOROX FOR CONTROL OF LAMBSQUARTERS AND PIGWEED

For prolonged control of Lambsquarters and Pigweed in DE, MD, NJ, NY, PA, VA, and WV, this product may be applied pre-emergence in tank-mix combination with Atrazine + Linuron. Apply this product and Atrazine according to the rates in Table 1 and Linuron according to the following rates.

Soil Texture	Broadcast Rate per Acre
Sandy loam (1 to 3% organic matter)	0.67 lb. LoroX
Sandy loam (3 to 6% organic matter)	1.0 lb. LoroX
Medium and Fine-textured soils (1 to 6% organic matter)	1.0 lb. LoroX

Observe all directions for use, use precautions, and limitations on this product, Atrazine and LoroX labels when applying these products in tank-mix combinations.

### 5. TANK-MIXTURE WITH ATRAZINE OR SIM-TROL + PROWL 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\* or Sim-Trol + Prowl may be applied after planting, but before Field corn or weeds emerge. Apply by ground equipment in a minimum of 10 gallons of water or 20 gallons of liquid fertilizer. Apply by air in a minimum of 5 gallons of water. Refer to Table 1 of this label for rates of this product, Atrazine, or Sim-Trol to be applied. Apply Prowl 4E according to the following rates below in Table 2.

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

**Mixing Instructions:** See "TANK-MIXTURE WITH ATRAZINE—POST-EMERGENCE".

**Table 2: Prowl 4E — Broadcast Rates Per Acre**

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, use precautions and limitations on the respective product labels when applying these products in tank-mix combination. Refer to the Prowl 4E label for replanting instructions in the event of crop loss.

## 6. TANK-MIXTURE WITH ATRAZINE OR SIM-TROL, OR ATRAZINE + SIM-TROL, WITH GRAMOXONE EXTRA, LANDMASTER BW, OR ROUNDUP FOR MINIMUM-TILLAGE OR NO-TILLAGE SYSTEMS

\*See Comment No. 1 following **Chart 1** for special mixing instructions.

In minimum-tillage or no-tillage systems where Field corn and Popcorn is planted directly into a cover crop, stale seedbed, established sod, or previous crop residues, the contact herbicides Gramoxone Extra, Landmaster BW, or Roundup may be added to a tank-mix of this product, Atrazine, or Sim-Trol, or this product + Atrazine + Sim-Trol. See Comment No. 7 following **Chart 1**. This product + Atrazine or Sim-Trol, or this product + Atrazine + Sim-Trol portion of the tank-mixture provides pre-emergence control of the weeds listed on this label in the tank-mixture section for "THIS PRODUCT + ATRAZINE OR SIM-TROL, OR THIS PRODUCT + ATRAZINE + SIM-TROL, PRE-PLANT SURFACE, PRE-PLANT INCORPORATED, OR PRE-EMERGENCE".

**Application:** Apply before, during, or after planting, but before the Field corn and Popcorn emerges, at the rates specified below. Add Gramoxone Extra, Landmaster BW, or Roundup at the following broadcast rates:

**Gramoxone Extra:** 1.5 to 2, 2 to 2.5, or 2.5 to 3 pints per acre to 1 to 3, 3 to 6, or 6 inch tall weeds, respectively. Apply surfactant at 1 or 2 pints per 100 gallons of spray mixture with 75% or greater or 50 to 74% non-ionic active ingredient, respectively. This treatment will not control weeds taller than 6 inches.

**Note:** Do not apply combinations containing Gramoxone Extra in suspension-type liquid fertilizers because the activity of paraquat will be reduced.

**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.

**Roundup:** See the Roundup or Roundup RT label for weeds controlled, recommended rates, and other use precaution directions.

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

On *Coarse soils*, apply 1 pint per acre of this product with 1.3 pounds of Atrazine 90DF\* or Sim-Trol 90DF\*, or with 0.7 pound of Atrazine 90DF\*\* + 0.7 pound of Sim-Trol 90DF\*\*. On *Medium soils*, apply 1.33 pints per acre of this product with 1.8 pounds of Atrazine 90DF or Sim-Trol 90DF, or with 0.9 pound of Atrazine 90DF + 0.9 pound of Sim-Trol 90DF. On *Fine soils*\*\*\*, apply 1.33 to 1.67 pints per acre of this product with 1.8 to 2.2 pounds of Atrazine 90DF or Sim-Trol 90DF, or with 0.9 to 1.1 pounds of Atrazine 90DF + 0.9 to 1.1 pounds of Sim-Trol 90DF.

\*Use Sim-Trol in preference to Atrazine when heavy infestations of Crabgrass or Fall panicum are expected.

\*\*When using the tank-mixture of this product + Atrazine 90DF + Sim-Trol 90DF, use equal rates of Atrazine and Sim-Trol 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 + Sim-Trol, instead of the 1:1 ratio given. (Example: Total Atrazine 90DF + Sim-Trol 90DF = 1.8 lbs./A, use 0.6 lb. of Atrazine 90DF + 1.2 lbs. of Sim-Trol 90DF, respectively.) Refer to Comment No. 2 following **Chart 1** for Atrazine 4L and Sim-Trol 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 90DF, or equivalent rate of Atrazine 4L, or the same total amount of Atrazine + Sim-Trol, with 1.33 to 1.67 pints per acre of this product.

## 7. TANK-MIXTURE WITH ATRAZINE; OR ATRAZINE + 2,4-D; OR ATRAZINE + 2,4-D + DICAMBA (BANVEL) FOR MINIMUMTILLAGE OR NO-TILLAGE SYSTEMS

In minimum-tillage or no-tillage systems where Field corn and Popcorn is planted directly into a cover crop, stale seedbed, established sod, or previous crop residues, this product applied in combination with Atrazine will kill most emerged small annual weeds. Apply this product + Atrazine before, during, or after planting, but before Field corn and Popcorn emerges, according to the rates in **Table 1**. Where heavy crop residues exist, add

0.8 to 1.6 pints per acre of an appropriately labeled 3.8 pounds a.i. per gallon of 2,4-D amine (such as Weedar® 64, Weedar 64A, DMA-4 Herbicide, or Formula 40®) to the spray tank last and apply in a

minimum of 25 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 to 2 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 Dicamba (Banvel) 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 Extra at the rate of 2.5 pints per acre in place of or in addition to 2,4-D, as indicated above. Do not apply Gramoxone Extra in suspension-type liquid fertilizer. Observe all directions for use, use precautions, and limitations on the respective product labels when applying these products in tank-mix combination.

## 8. TANK-MIXTURE WITH MARKSMAN IN CONSERVATION TILLAGE — FIELD CORN

In conservation tillage systems where Field corn is planted directly into a cover crop or previous crop residue, this product + Marksman will kill most emerged small annual weeds. Apply this product + Marksman before, during, or after planting, but before Field 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 Extra at its standard rate. This product + Marksman may be applied post-emergence to Field 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 Extra in suspension-type liquid fertilizer or use on emerged crop. Refer to the Marksman label and follow all directions, limitations, use precautions, and information regarding application and use in Field Corn.

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and disposal. Open dumping is prohibited.

**PESTICIDE STORAGE:** This product may be stored at temperatures down to -30°F. For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. **PESTICIDE DISPOSAL:** 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 DISPOSAL:** Do not reuse empty container. Triple rinse (or equivalent), puncture and dispose of in a sanitary landfill, or by incineration, or by open burning, if allowed by state and local authorities. Keep out of smoke from burning containers.

**For Bulk and Mini Bulk Containers:**

**CONTAINER DISPOSAL:** Reseal container and offer for reconditioning or triple rinse (or equivalent) and offer for recycling or reconditioning, or clean in accordance with manufacturer's instructions. Container Precautions: Before refilling, inspect thoroughly for damage such as cracks, punctures, bulges, dents, abrasions and damaged or worn threads on closure devices. **REFILL ONLY WITH THIS PRODUCT.** The contents of this container cannot be removed completely by cleaning. Refilling with material other than this product will result in contamination and may weaken the container. **THIS CONTAINER IS NOT SAFE FOR FOOD, FEED OR DRINKING WATER.**

### CONDITIONS OF SALE AND WARRANTY

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability. OUR

RECOMMENDATIONS FOR USE of this product are based upon tests believed reliable. Follow directions carefully. Timing and method of application, weather and crop conditions, mixtures with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the Seller. Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith.

In no case shall the Manufacturer or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product when such use and/or handling is not in strict accordance with directions given herewith. The foregoing is a condition of sale by the Seller and is accepted as such by the Buyer.

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## APPENDICES

### APPENDIX A: COMPATIBILITY TEST

Because liquid fertilizers can vary, even within the same analysis, always **check compatibility with herbicide(s) each time before use**. Be especially careful when using complete suspension or fluid fertilizers, as serious compatibility problems are more likely to occur. Commercial application equipment may improve compatibility in some instances. The following test assumes a spray volume of 25 gallons per acre. For other spray volumes, make appropriate changes in the ingredients. Check compatibility using this procedure: 1. Add 1 pint of fertilizer to each of 2 one-quart jars with tight lids.

2. To one of the jars, add one-quarter teaspoon or 1.2 milliliters of a compatibility agent approved for this use, such as Compex® or Unite® (one-quarter tsp. is equivalent to 2 pts./100 gals. spray). Shake or stir gently to mix.

3. To both jars, add the appropriate amount of herbicide(s). If more than one herbicide is used, add them separately with dry herbicides first, flowables next, and emulsifiable concentrates last. After each addition, shake or stir gently to thoroughly mix. The appropriate amount of herbicides for this test follows:

**Dry herbicides:** For each pound to be applied per acre, add 1.5 level teaspoons to each jar.

**Liquid herbicides:** For each pint to be applied per acre, add one-half teaspoon or 2.5 milliliters to each jar.

**Note:** For this product in tank-mixtures with Atrazine + Sim-Trol, use one-third to one-half the amount of Atrazine specified above and the remainder as Sim-Trol, depending on whether the 1:2 or 1:1 ratio of Atrazine to Sim-Trol is to be applied.

4. After adding all ingredients, put lids on and tighten, and invert each jar 10 times to mix. Let the mixtures stand 15 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 2 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 herbicide(s) in water before addition, or (B) add one-half of the compatibility agent to the fertilizer and the other one-half to the emulsifiable concentrate or flowable herbicide before addition to the mixture. If incompatibility is still observed, do not use the mixture.

### APPENDIX B: 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 gallons of spray mixture per acre. Maximum recommended sprayer speed is 15 mph. Rinse sprayer thoroughly with clean water immediately after each use.

**Note:** 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.

### APPENDIX C: AERIAL APPLICATION

Apply this product in water alone or in tank-mixtures with Atrazine, or Linuron in a minimum total volume of 2 gallons per acre by aircraft. This product may also be applied by air in combination with Prowl. Avoid application under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur. To assure that spray will not adversely affect adjacent sensitive nontarget plants, apply this product alone or this product + Atrazine by aircraft at a minimum upwind distance of 400 feet from sensitive plants, or apply this product + Lorox at a minimum upwind distance of 300 feet from

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

## MANDATORY SPRAY DRIFT MANAGEMENT

### GROUND BOOM APPLICATIONS:

- User must only apply with the release height recommended by the manufacturer, but no more than 4 feet above the ground or crop canopy.
- Applicators are required to select the nozzles and pressure that deliver medium or coarser droplets (ASABE S572).
- Do not apply when wind speeds exceed 15 miles per hour at the application site.
- Do not apply during temperature inversions.

### BOOMLESS GROUND APPLICATIONS:

- Applicators are required to select the nozzle and pressure that deliver medium or coarser droplet size (ASABE S572.3) for all applications.
- Do not apply when wind speeds exceed 15 miles per hour at the application site.
- Do not apply during temperature inversions.

### AERIAL APPLICATIONS:

- Do not release spray at a height greater than 10 feet above the ground or vegetative canopy, unless a greater application height is necessary for pilot safety.
- Applicators are required to select the nozzle and pressure that deliver medium or coarser droplets (ASABE S641).
- If the wind speed is 10 miles per hour or less, applicators must use one-half swath displacement upwind at the downwind edge of the field. When the wind speed is between 11 to 15 miles per hour, applicators must use three-fourths swath displacement upwind at the downwind edge of the field.
- Do not apply when wind speeds exceed 15 miles per hour at the application site. If the wind speed is greater than 10 mph, the boom length must be 65% or less of the wingspan for fixed wing aircraft and 75% or less of the rotor diameter for helicopters. Otherwise, the boom length must be 75% or less of the wingspan for fixedwing aircraft and 90% or less of the rotor diameter for helicopters.
- Do not apply during temperature inversions.

## SPRAY DRIFT ADVISORIES

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFFSITE SPRAY DRIFT.

BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

### IMPORTANCE OF DROPLET SIZE

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

### Controlling Droplet Size – Ground Boom

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

### Controlling Droplet Size – Aircraft

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

### BOOM HEIGHT – Ground Boom

For ground equipment, the boom should remain level with the crop and have minimal bounce.

### RELEASE HEIGHT - Aircraft

Higher release heights increase the potential for spray drift.

### SHIELDED SPRAYERS

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

**TEMPERATURE AND HUMIDITY**

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

**TEMPERATURE INVERSIONS**

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

Avoid applications during temperature inversions.

**WIND**

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

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

**BOOMLESS GROUND APPLICATIONS**

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

**HANDHELD TECHNOLOGY APPLICATIONS**

Take precautions to minimize spray drift.

**APPENDIX D: CENTER PIVOT IRRIGATION APPLICATION**

This product alone in tank-mixture with other herbicides on this label, which are registered for center pivot application, may be applied in irrigation water pre-emergence (after planting, but before weeds or crop emerge) at rates recommended on this label. This product also may be applied post-emergence to the Field corn crop or Popcorn crop and pre-emergence to weeds in Field corn or Popcorn where post-emergence 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 non-uniform 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 down the system and make the 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 of water to 1 part herbicide(s) and inject this mixture into the center pivot system. Injecting a larger volume of 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 one-half to 1 inch of water. Use the lower water volume (one-half 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. **Use Precautions:** 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.

**APPENDIX E: 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 pre-plant incorporated or pre-plant surface application which are used to control weeds in crops on this product label and are not prohibited from use on dry bulk granular fertilizers.

When applying this product or this product mixtures with dry bulk granular fertilizers, follow all directions for use and use precautions on the respective product labels regarding Field corn and Popcorn, 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 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, freeflowing mixture. Absorptive materials should be added only after the herbicide has been thoroughly blended into the fertilizer mixture. Best application results will be obtained by using a granule of six-thirtieth 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, Atrazine + Sim-Trol or Sim-Trol by the following formula:

$$\frac{2,000 \text{ pts./A of liquid}}{\text{lbs. of fertilizer per acre}} \times \text{flowable} = \frac{\text{pints of liquid or}}{\text{product}} \text{ flowable product per ton of fertilizer}$$

$$\frac{2,000 \text{ lbs./A of dry}}{\text{lbs. of fertilizer per acre}} \times \text{product} = \text{pounds of dry product per ton of fertilizer}$$

**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 to 4 pints per gallon 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.

**Notes:** (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

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use of Agsorb FG or drying agents of six-thirtieth particle size are recommended. (3) Drying agents are not recommended for use with the On-The-Go impregnation equipment.

**Use Precautions:** To avoid potential for explosion, (1) Do not impregnate this product or this product 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 mixtures on straight limestone, since absorption will not be achieved. Fertilizer blends containing limestone can be impregnated.

**Application**

Apply 200 to 700 lbs. 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. Non-uniform 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.

**Use Precaution:** To avoid crop injury, do not use the herbicide/fertilizer mixture on Field corn and Popcorn where bedding occurs.

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