



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 Herbicide  
*EPA Registration Number:* 19713-548  
*Application Date:* March 24, 2021, and July 12, 2021  
*Decision Number:* 572610 and 577105

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,

A handwritten signature in blue ink, appearing to read "Linda Arrington", with a long horizontal flourish extending to the right.

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. 19713-548

**METOLACHLOR**

**GROUP**

**15**

**HERBICIDE**

**Drexel**

# ***Me-Too-Lachlor***<sup>TM</sup>

**Herbicide**

For weed control in Cotton, Peanuts, Pod crops, Potatoes, Safflowers, Sorghum, Soybeans and Tomatoes.

**ACTIVE INGREDIENT:**

Metolachlor: 2-chloro- N-(2-ethyl-6- methylphenyl)-N-(2-methoxy- 1-methylethyl) acetamide..... 86.4%

**OTHER INGREDIENTS:** ..... 13.6%

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

This product contains 8 pounds of 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 Booklet (Container Labeling) for Full Use Instructions)**

**(See Container Labeling for (FIRST AID and) Complete Directions for Use)**

**(See (Attached) Booklet (Container Labeling) for Complete Directions for Use)**

**EPA Reg. No. 19713-548**

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

**Net Content: \_\_\_ 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.

**IF ON SKIN OR CLOTHING:**

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15 to 20 minutes.

**IF IN EYES:**

- Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

**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.

Call a poison control center or doctor for treatment advice. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also call CHEMTREC at 800-424-9300 for emergency medical treatment information.

548SP-0721\*P

## PRECAUTIONARY STATEMENTS

### Hazards To Humans And Domestic Animals

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

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

**Applicators and other handlers must wear:**

- Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves made of any waterproof material made of barrier laminate or viton  $\geq$  14 mils
- Chemical-resistant footwear plus socks
- Chemical-resistant headgear for overhead exposure and
- Chemical-resistant apron when cleaning equipment, mixing or loading

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

## ENGINEERING CONTROLS

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.

## USER SAFETY RECOMMENDATIONS

**Users should:** 1) Wash hands thoroughly 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

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

### Reporting Ecological Incidents:

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

### Ground Water 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 anti-siphoning 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 STATEMENT**

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.

#### **PRODUCT INFORMATION AND RESTRICTIONS**

ME-TOO-LACHLOR is a herbicide for use as a pre-plant surface-applied, pre-plant incorporated or pre-emergence treatment in water or fluid fertilizer for control of most annual grasses and certain broadleaf weeds in Cotton, Peanuts, Pod crops, Potatoes, Safflowers, Soybeans and Tomatoes. This product can also be used as a post-emergence treatment in Cotton and Soybeans.

**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.

**It is the pesticide user's responsibility to ensure that all products in the listed mixtures are registered for the intended use. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.**

**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.

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

## HERBICIDE RESISTANCE MANAGEMENT

METOLACHLOR	GROUP	15	HERBICIDE
-------------	-------	----	-----------

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.

## 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 Benfluralin (e.g., Balan<sup>®</sup>), Bentazon (e.g., Basagran<sup>®</sup>), Clomazone (e.g., Command<sup>®</sup>), 2,4-DB (e.g., Butoxone<sup>®</sup>, Butyrac<sup>®</sup>), Ethalfluralin (e.g., Sonalan<sup>®</sup>), EPTC (e.g., Eptek<sup>™</sup> 7EC), Fluometuron (e.g., Cotoran<sup>®</sup>), Imazaquin (e.g., Scepter<sup>®</sup>), Imazethapyr (e.g., Pursuit<sup>®</sup>), Linuron (e.g., Linuron DF, Lorox Plus<sup>®</sup>), Metribuzin (e.g., Lexone<sup>®</sup>, Sencor<sup>®</sup>), Metribuzin + Chlorimuron (e.g., Canopy<sup>®</sup>, Preview<sup>®</sup>), MSMA, Paraquat (e.g., Quik-Quat<sup>™</sup>, Gramoxone<sup>®</sup>, Starfire<sup>®</sup>), Pendimethalin (e.g., Prowl<sup>®</sup>), Prodiamine + Isoxaben (e.g., Gemini<sup>®</sup>), Prometryn (e.g., Caparol<sup>®</sup>), Simazine or Trifluralin and allow it to become dispersed; then add this product, then add Paraquat (e.g., Quik-Quat, Gramoxone, Starfire) or Glyphosate (e.g., Imitator<sup>®</sup> Plus, Imitator DA, Roundup<sup>®</sup>) if these products are being used; and finally the rest of the water. For tank mixtures with Clomazone (e.g., Command), EPTC (e.g., Eptek 7EC), Ethalfluralin (e.g., Sonalan), Fluometuron (e.g., Cotoran<sup>®</sup>), Imazaquin (e.g., Scepter), Imazethapyr (e.g., Pursuit), Linuron (e.g., Linuron DF, Lorox Plus), Metribuzin (e.g., Lexone, Sencor), Metribuzin + Chlorimuron (e.g., Canopy, Preview), Paraquat (e.g., Quik-Quat, Gramoxone, Starfire), Pendimethalin (e.g., Prowl), Prodiamine + Chlorimuron (e.g., Gemini), Prometryn (e.g., Caparol) or Trifluralin, fluid fertilizers may replace all or part of the water as carrier, except in the Atrazine post-emergence tank mixes. For tank mixtures with Atrazine, see additional mixing instructions on the Atrazine label.



For each tank mixture, conduct a compatibility test as described in the “*COMPATIBILITY TEST*” section below. For all tank mixtures, agitate during mixing and application to maintain a uniform suspension.

\* See **Special Mixing Instructions** for tank mixtures with Fluometuron (e.g., Cotoran), under the appropriate tank mixture section.

For directions on how to conduct a compatibility test, see the following “*COMPATIBILITY TEST*” section.

### **COMPATIBILITY TEST**

Since 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 compatibility agent, such as Mix™, 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 teaspoon 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 + Simazine, use one-third to one-half the amount of the Atrazine specified above and the remainder as Simazine depending on whether the 1:2 or 1:1 ratio of Atrazine to Simazine 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.

## **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.

**IN NEW YORK STATE: DO NOT APPLY THIS PRODUCT BY AIR. DO NOT SELL, USE OR DISTRIBUTE THIS PRODUCT IN NASSAU AND SUFFOLK COUNTIES.**

### **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 over short-sleeved shirt and short pants
- Chemical-resistant gloves, made of barrier laminate or viton
- 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.

### 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:

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.

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. 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.

**A) 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 certain crops. Use only



split applications for treatments made 30 to 45 days before planting, with two-thirds the specified 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 to determine if early pre-plant surface application is directed. If weeds are present at the time of treatment, apply in a tank-mixture combination with a contact herbicide (e.g., Paraquat or Glyphosate). 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.

**B) 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 crop will be planted on beds, apply and incorporate this product after bed formation, unless specified otherwise.

**C) Pre-emergence:** Apply this product during planting (behind the planter) or after planting, but before weeds or crops emerge.

**D) Post-emergence (For Cotton and Soybean Application):** One application of this product will provide pre-emergence control or partial control of the annual grasses and broadleaf weeds listed in the “*WEEDS CONTROLLED*” section of this label. This product alone will not control emerged weeds, so it must be applied to a weed-free surface or in a tank mixture with products that provide post-emergence weed control. If weeds are present at the time of application, tank mix with a labeled post-emergence herbicide and observe all directions for use, precautions and restriction on the label of the tank mix partner. For additional post-emergence information, follow the crop specific label requirements identified on this label.

### 3. SPECIAL APPLICATION PROCEDURES

**A) Pre-plant Incorporated—CA Only (Pod Crops, Safflowers):** Broadcast this product 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 precaution when forming the beds so that only soil from zones treated with this product 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.

**B) Pre-emergence:** Apply this product after planting. Water with sprinkler or flood irrigation within 7 to 10 days.

**C) Fall Application (only in IA, MN, ND, SD, WI, North of Route 20 in the state of NE, and North of Route 136 in the state of IL):** Do not apply to frozen ground. Use on medium and fine soils with greater than 2.5% organic matter that will be planted to 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. **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.

**D) Ground Application:** Apply this product alone or in tank mixtures 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 following 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 the section “*LOW CARRIER APPLICATION*”. For application by air or through center pivot systems, see “*AERIAL APPLICATION*” and “*CENTER PIVOT IRRIGATION APPLICATION*” sections. The “*AERIAL APPLICATION*” section includes “*Aerial Drift Management*” and “*Aerial Drift Reduction Advisory Management*” sections.

For information on impregnating dry fertilizer, see the section “*DRY BULK GRANULAR FERTILIZERS*”.

## 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. Manufacturer 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 sprayer speed is 15 mph. Rinse sprayer thoroughly with clean water immediately after each use.

**Note:** Use low pressure nozzles 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 directed by the manufacturer. Place all nozzles on 20 inch centers except flooding types which should be placed on 40-inch centers. When flat fan type nozzles are used, use angles of 80° or 110°. 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, Metribuzin (e.g., Lexone, Sencor) 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 Benfluralin (e.g., Balan), Pendimethalin (e.g., Prowl) or Trifluralin. 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 non-target 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 + Metribuzin (e.g., Lexone, Sencor) or Linuron 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 fixed-wing 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 OFF-SITE SPRAY DRIFT.  
BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

### **IMPORTANCE OF DROPLET SIZE**

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

#### **Controlling Droplet Size – Ground Boom**

Volume - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.

Pressure - Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.

Spray Nozzle - Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

#### **Controlling Droplet Size – Aircraft**

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

### **BOOM HEIGHT – Ground Boom**

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.

## **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 specified on this label. 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 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 inter lock 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 coarser 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.

## **DRY BULK GRANULAR FERTILIZERS**

Many dry bulk granular fertilizers may be impregnated or coated with this product alone or selected this product tank mixtures 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 mixtures of this product 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 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.

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 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 + Simazine, Simazine, Metribuzin (e.g., Lexone, Sencor), Linuron (e.g., Linuron DF, Lorox Plus) or Ethalfuralin (e.g., Sonalan) by the following formula:

$$\frac{2,000}{\text{pounds of fertilizer per acre}} \times \begin{matrix} \text{pints per acre of liquid or} \\ \text{or flowable product} \end{matrix} = \begin{matrix} \text{pints of liquid or} \\ \text{flowable product per ton of fertilizer} \end{matrix}$$

$$\frac{2000}{\text{pounds of fertilizer per acre}} \times \begin{matrix} \text{pounds per acre of dry} \\ \text{product} \end{matrix} = \begin{matrix} \text{pounds of dry product per} \\ \text{ton of fertilizer} \end{matrix}$$

### **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. Use Agsorb FG or drying agents of six-thirtieth particle size. (3) Do not use drying agents 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 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. 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 crops where bedding occurs.

### **THIS PRODUCT APPLIED ALONE**



## 1) WEEDS CONTROLLED

Barnyardgrass (Watergrass) Bristly foxtail Carpetweed Crabgrass Crowfootgrass Eastern black nightshade Fall panicum Florida pusley Foxtail millet	Galinsoga Giant foxtail Goosegrass Green foxtail Italian ryegrass ( <i>Lolium multiflorum</i> )* Pigweed (Palmer amaranth, Powell amaranth, Prostrate, Redroot, Smooth, Tumble) Prairie cupgrass	Red rice Robust foxtails (Purple, White) Signalgrass ( <i>Brachiara</i> ) Southwestern cupgrass Waterhemp (Common, Tall) Witchgrass Yellow foxtail Yellow nutsedge
---	--	---

\*For control of this weed, apply in the Fall using 1.67 pints of this product on medium soils and 2 pints of this product on fine soils after harvest of the previous crop but prior to emergence of this weed. Do not apply to frozen ground. A tillage operation may precede application of this product. A Fall and/or Spring tillage may follow application but incorporation depth must not exceed more than 2 to 3 inches. After emergence of this weed, apply this product in tank mix combination with other herbicides with use directions against this weed. Observe all use precautions and limitations on the labels of each product used in tank mixture. Tank mixtures are permitted only in those states where the tank mix partner is registered.

Observe the specified maximum allowable rate of this product for a crop growing season.

## 2) WEEDS PARTIALLY CONTROLLED\*:

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

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

- A) 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 specified under “*APPLICATION PROCEDURES*”.
- B) Plant crop into moist soil immediately after tillage. If this product is to be used pre-emergence, apply at planting or immediately after planting.
- C) 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.
- D) 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, perform a uniform, shallow cultivation as soon as weeds emerge.

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

## 3) ROTATIONAL CROPS

### This Product Alone

- A) If crop treated with this product alone is lost, any crop on this label 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.
- B) 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.
- C) Any crop on this label, in addition to Barley, Buckwheat, Cabbage, Milo, Oats, Peppers, Rice, Root crops, Rye, Tobacco or Wheat may be planted in the next Spring following treatment. Clover may be



seeded 9 months following application. Do not graze or feed forage or fodder from Cotton to livestock. All other rotational crops may be planted 12 months after a lay-by application.  
D) Following a lay-by treatment or multiple treatments applied the previous season, any crop on this label, in addition to Cabbage, Peppers or Tobacco may be planted in the Spring.

### **This Product In Tank-Mixtures**

For rotational crops restrictions for this product used in tank mixtures, refer to the statements/restrictions above for this product and 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 3 pounds a.i. per acre (3 pints of this product) pre-emergence (including pre-plant surface, pre-plant incorporated, post-plant incorporated, etc.); (2) Do not make lay-by or other post-emergent applications of this product.

### **COTTON — THIS PRODUCT ALONE**

**Application:** Apply this product pre-emergence only in Area 1\* at the rate of 0.75 to 1 pint per acre on sandy loams, 1 to 1.33 pints per acre on medium soils or 1 to 1.33 pints per acre on fine soils. Apply this product pre-plant incorporated or pre-emergence in Area 2\*\* at 1 pint per acre on sandy loams, 1 to 1.33 pints per acre on medium soils or 1.33 pints per acre on fine soils.

Apply this product post-emergence to Cotton and pre-emergence to weeds at 0.75 to 1.33 pints per acre according to the state rate limitations in the following “*Post-emergence*” section below. **Do not use on sands and loamy sand.**

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

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

**Pre-plant 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 pre-plant 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. Plant Cotton 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.

**Note:** For best control of Yellow nutsedge and suppression of seedling Johnsongrass, apply this product pre-plant incorporated at the maximum rate for the soil texture whether applied alone or mixed with Prometryn (e.g., Caparol).

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

**Post-emergence:** Apply this product broadcast over-the-top or directed to the soil surface according to the rate and Cotton height limitations listed below by state. Application before weeds emerge or after clean cultivation to remove existing weeds is necessary as this product will not control emerged weeds. This product post-emergence may be applied over any previous registered herbicide treatment. In sprinkler-irrigated areas, sprinkler irrigate after application with one-half to 1 inch of water (one-half 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 one-half 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 at 1 to 1.33 pints per acre when Cotton is 3 to 6 inches tall.

**TN, AR, MS, MO and LA:** Apply this product at 0.75 to 1.33 pints per acre when Cotton is 3 to 12 inches tall.

**TX, OK, NM, AZ, CA and Clay Soils in AR:** Apply this product at 1 to 1.33 pints per acre when Cotton is 3 to 12 inches tall, but 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 pre-plant incorporated or pre-emergence treatment and follow with an application post-emergence to Cotton before weeds emerge or after clean cultivation to remove existing weeds since this product will not control emerged weeds. Cotton should be at least 3 inches tall at the post-emergence timing. Apply this product post-emergence over a previous pre-plant or pre-emergence application of this product as shown in the following table.

State	This Product - Multiple Applications to Cotton	
	Pre-plant incorporated or Pre-emergence Pints per acre	Post-emergence and Height Pints per acre
MS, LA, TN, AR, MO	0.75 to 1.33 (Pre-emergence Only)	+ 0.75 to 1.33 to 3 to 12" Cotton
TX, OK, NM	1.0 to 1.33	+ 1.0 to 1.33 to 3 to 12" Cotton before August 1
NC, VA	1.0 to 1.33 (Pre-emergence Only)	+ 1.0 to 1.33 to 3 to 12" Cotton

In sprinkler-irrigated areas, sprinkler irrigate after application with one-half to 1 inch of water (one-half 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 one-half 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.

For best control of Yellow nutsedge and suppression of seedling Johnsongrass, apply this product pre-plant incorporated, pre-emergence or post-emergence to Cotton and pre-emergence 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 pints per acre per year on coarse soils or 4 pints per acre of this product per year on medium and fine soils. These treatments may be applied over previous registered herbicide treatments.

**Use 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 post-emergence 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 directed in the Cotton section of this label or injury may occur; (5) Do not apply on Taloka silt loam; (6) Do not use in Gaines County, TX.

**Note:** Do not graze or feed forage or fodder from Cotton to livestock or illegal residues may result.

## **COTTON — THIS PRODUCT IN COMBINATIONS**

### **TANK MIXTURE WITH GLYPHOSATE (e.g., IMITATOR PLUS, IMITATOR DA, ROUNDUP) FOR USE ON ROUND-UP READY COTTON ONLY**

Apply this product as a tank mixture with glyphosate in water post-emergence directed or post-emergence over-the-top for control of emerged weeds as listed on the Glyphosate labels and for residual pre-

emergence weed control of the weeds listed on this label. See “*Post-emergence*” under the section “*COTTON — THIS PRODUCT ALONE*” for use rates and timings of this product and follow the glyphosate label for its specified rates, method of application, and timing of application restrictions. DO NOT add fertilizer additives, surfactants and spray adjuvants or pesticides to this tank mixture if it is to be applied post-emergence over-the-top to Cotton or crop injury may occur.

**Use Precautions:** Do not apply this tank mixture post-emergence to any variety of Cotton unless it is designated Roundup Ready and unless the glyphosate formulation being used states it may be used on Roundup Ready Cotton. Post-emergence over-the-top applications of this tank mixture may cause temporary injury such as necrotic spotting on the exposed Cotton leaves which will not affect normal plant development. Do not apply Glyphosate post-emergence over-the-top to Cotton past the growth stage limit as specified on the glyphosate label. Do not use on sand or loamy sand soils in Gaines County, TX.

**TANK MIXTURE WITH GLUFOSINATE AMMONIUM (e.g., IGNITE®) FOR USE ON LIBERTYLINK® COTTON**

Apply this product as a tank mixture with Glufosinate ammonium in water post-emergence directed or post-emergence over-the-top for control of emerged weeds as listed on the Ignite label and residual pre-emergence weed control of the weeds listed on this label. See “*Post-emergence*” under the section “*COTTON — THIS PRODUCT ALONE*” for the use rates and timings of this product and follow the Ignite label for its specified rates, method of application, and timing of application restrictions. DO NOT add fertilizer additives, surfactants and spray adjuvants or other pesticides to this tank mixture if it is to be applied post-emergence over-the-top to Cotton or crop injury may occur.

**Use Precautions:** (1) Do not apply this tank mixture post-emergence to any variety of Cotton unless it is designated tolerant. (2) Post-emergence over-the-top applications of this tank mixture may cause temporary injury such as necrotic spotting on the exposed Cotton leaves, which will not affect normal plant development. (3) Do not apply Ignite post-emergence over-the-top to Cotton beyond early bloom stage. (4) Do not use in Gaines County, TX on sand or loamy sand soils. (5) Do not apply Ignite to genetically modified Cotton in Florida, South of Tampa (Florida Route 60) or in Hawaii except for test plots or breeding nurseries.

**TANK MIXTURE WITH PROMETRYN (e.g., CAPAROL)**

This product tank mixed with Prometryn may be applied pre-plant incorporated or pre-emergence in water or fluid fertilizer. When fluid fertilizer is used as a carrier for this product either alone or in combination with Prometryn, mix only the amount that will be sprayed in one operation. These mixtures should not be allowed to stand without agitation. Only water may be used as a carrier for post-emergence directed application. In addition to those weeds controlled by this product alone, this product + Prometryn applied pre-plant incorporated or pre-emergence also controls the following weeds: Annual morningglory, Groundcherry, Hairy nightshade, Junglerice, Lambsquarters, Malva, Mustard, Prickly sida (Teaweed), Purslane, Ragweed, Wild oats and shallow-germinating seedlings of Cocklebur and Coffeeweed. As a post-emergence directed application, Prometryn provides post-emergence 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.

**Pre-plant Incorporated or Pre-emergence:** Apply this product + Prometryn either pre-plant incorporated or pre-emergence using the appropriate rate from Table 1. Plant Cotton 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 before planting, use a planter that will result in a minimum of soil disturbance.

**Table 1: This Product + Prometryn (e.g., Caparol) — Cotton (NM, OK, TX)**

Use Areas	Soil Texture	Broadcast Rate per Acre (Pts.)	
		This Product	Caparol 4L
ALL	Sand, Loamy sand	DO NOT USE	
OK and Blacklands and Gulf Coast of TX	Loam	0.85 to 1.33	2.4
	Clay	1.33	4.8
Rio Grande Valley of TX	Loam	0.85 to 1.33	3.2
	Clay	1.33	4.8

NM; High Plains, Rolling Plains, Edwards Plateau of TX; and Southwest TX	Sandy loam	0.85 to 1.0	1.6
	Loam	0.85 to 1.33	2.4
	Sandy clay loam	1.33	2.4
	Other clay soils	1.33	3.2

**Post-emergence Directed (AR, AZ, CA, LA, MO, MS, NM, OK, TN and TX):** This product may be tank mixed with Prometryn in water and applied post-emergence directed in Cotton for control of emerged weeds listed on the Prometryn label and residual pre-emergence control of weeds controlled by this product and Prometryn or application may be made after cultivation for residual pre-emergence 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 + Prometryn in a minimum of 20 gallons of spray volume per acre. Follow the directions, limitations and use precautions on the Prometryn label when Prometryn is applied as a post-emergence directed application. Refer to the directions, limitations and precautions for use of this product under “*Post-emergence*” under the section “*COTTON — THIS PRODUCT ALONE*”.

**Use Precautions:** (1) To avoid concentration in the seed furrow, do not make broadcast applications of this product + Prometryn 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.

**Note:** Do not graze or feed forage or fodder from Cotton to livestock or illegal residues may result. Refer to the Prometryn label for further instructions and limitations.

#### **TANK MIXTURE WITH FLUOMETURON (e.g., COTORAN)**

This product may be applied in tank mixture with Fluometuron pre-emergence for control of those weeds controlled by this product alone and those as listed in the Fluometuron label. This combination will also control Hyssop spurge, Nodding spurge, Prostrate spurge and Spotted spurge. Apply to the soil surface at planting or after planting, but before weeds or crop emerge using the appropriate rates from Table 2. The tank mixture may be applied post-emergence to Cotton, but pre-emergence to weeds or it may be applied post-emergence to both Cotton and broadleaf weeds for control of weeds in the Fluometuron label.

Apply as a directed, semi-directed or over-the-top spray. This product will not control emerged weeds, but will provide pre-emergence control of weed species on its label.

**Mixing Instructions:** Incompatibility may occur when tank mixing this product and Fluometuron. To help overcome this condition, fill the spray tank one-quarter full with water of fluid fertilizer and start agitation, add Fluometuron and allow to become dispersed. Add X-77 at 0.5% volume/volume final spray (4 pints per 100 gallons), 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 post-emergence applications.

**Table 2: This Product + Fluometuron (e.g., Cotoran) — 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	0.75 to 1.0	0.85 to 1.0	1.2
Loam, Silt loam, Silt	1.0 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, TN and Bootheel of MO.			
** 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.			

**Post-emergence:** This tank mixture may be applied post-emergence to Cotton, but pre-emergence to weeds or post-emergence to both Cotton and weeds for control of weeds on the Fluometuron label. Apply as a directed, semi-directed or over-the-top spray. This product will not control emerged weeds, but will provide pre-emergence control of weed species on its label. Apply when Cotton is in the 3 to 12 inch stage. Where rate ranges are given for Fluometuron, use the higher rate when applying post-emergence 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.

**Use Precautions:** (1) Do not apply this product + Fluometuron 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 + Fluometuron 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 Fluometuron 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 Fluometuron label for further instructions, use precautions and limitations.

**Note:** 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 + FLUOMETURON (e.g., COTORAN) WITH PARAQUAT (e.g., QUIK-QUAT, GRAMOXONE) OR GLYPHOSATE (e.g., IMITATOR PLUS, IMITATOR DA, ROUNDUP) 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 Paraquat or Glyphosate may be added to a tank mix of either this product or this product + Fluometuron. When used as directed, the Paraquat portion of the tank mixture controls most emerged weeds and suppresses many perennial weeds.

Glyphosate combinations will control emerged annual and perennial weeds when applied as directed on the Glyphosate label. This product and this product + Fluometuron portion of the tank mixture provides pre-emergence control of the weeds listed on this label in the “*THIS PRODUCT APPLIED ALONE*” and “*TANK MIXTURE WITH FLUOMETURON (e.g., 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 the “*TANK MIXTURE WITH FLUOMETURON (e.g., COTORAN)*” section.

**Application:** Apply before, during or after planting, but before the Cotton emerges at the rates specified below. Apply this product at 0.85 to 1 pint per acre on sandy loams, medium and fine textured soils. Refer to Table 2 for the Fluometuron rates.

Add Paraquat or Glyphosate:

**Paraquat:** See the Paraquat label for weeds controlled, specified rates and other use directions. Add 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 Paraquat in suspension-type liquid fertilizers as the activity of Paraquat will be reduced.

**Glyphosate:** See the Glyphosate label for weeds controlled, specified rates and other use directions.

**Note:** Do not apply this product + Fluometuron + Glyphosate in tank mixture because of compatibility problems.

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

**Use 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 Fluometuron labels and the “*TANK MIXTURE WITH FLUOMETURON (e.g., COTORAN)*” section of this label for further instructions, use precautions and limitations. (3) Do not use in Gaines County, TX.



## **TANK MIXTURE WITH MSMA, MSMA + PROMETRYN (e.g., CAPAROL) OR MSMA + FLUOMETURON (e.g., COTORAN)**

This product may be tank mixed with MSMA in water and applied post-emergence directed to control emerged weeds listed on the MSMA product label and residual pre-emergence control of weeds controlled by this product. The addition of Prometryn or Fluometuron will add control of weed species on their respective labels.

**Post-emergence Directed (AR, AZ, CA, LA, MS, NM, OK, TN, TX and Bootheel of MO):** Apply this product + MSMA post-emergence-directed to 3 to 12 inch Cotton according to the directions, limitations and use precautions on the MSMA product label as well as the directions, limitations and use precautions for use of this product in “*Post-emergence*” under the section “*COTTON — THIS PRODUCT ALONE*”. 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. Prometryn or Fluometuron may be added to this product + MSMA tank mixture according to the respective label directions for application to 3 to 12 inch Cotton. When these mixtures are used, follow the mixing instructions for this product + Prometryn or Fluometuron 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.

### **PEANUTS — THIS PRODUCT ALONE**

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

**Pre-plant Incorporated or Pre-emergence:** Follow instructions for use of this product alone under the section “*APPLICATION PROCEDURES*”.

**Post-plant 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.

**Lay-by:** Apply this product to the soil immediately after the last normal cultivation. Apply this product alone pre-plant incorporated, post-plant incorporated, pre-emergence or lay-by at a broadcast rate of 1 to 1.33 pints per acre in the Southeast\* and 0.85 to 1.33 pints per acre in NM, OK and TX.

\* In the Southeast, use 1.33 to 2 pints per acre and apply pre-emergence for partial control of Florida beggarweed.

**Note:** (1) This product alone may be applied as directed after any of the following pre-plant incorporated herbicides when used according to their label: Balan (Benfluralin) at 3 to 4 quarts per acre; Trifluralin E.C. (Trifluralin) at 1 pint per acre; Sonalan (Ethalfuralin) at 0.85 to 3 pints per acre; Pursuit (Imazethapyr) at 0.25 pint per acre; or Prowl (Pendimethalin) at 1 to 2 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 IN COMBINATIONS**

#### **TANK MIXTURE WITH BENFLURALIN (e.g., BALAN)**

This product + Benfluralin tank mixture applied pre-plant incorporated controls those weeds listed under the section “*THIS PRODUCT APPLIED ALONE*” and those weeds as listed on the Benfluralin label. Apply 1 to 1.33 pints per acre of this product + 3 to 4 quarts per acre of Balan in a minimum of 10 gallons of spray volume per acre for ground application or in a minimum of 5 gallons of spray volume per acre for aerial application. Follow the procedures for Benfluralin on the Benfluralin label for soil preparation and incorporation of this tank mix. Apply and incorporate this product + Benfluralin up to 14 days prior to planting.

**Note:** Follow all restrictions and use precautions on the Benfluralin label.

### **MULTIPLE APPLICATIONS**

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



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

**1st Application:** Apply this product pre-plant incorporated as directed under “PEANUTS — THIS PRODUCT ALONE” or apply this product + Benfluralin pre-plant incorporated as directed previously in this section. Refer to the respective section for weeds controlled.

**2nd Application:** Apply this product any time from pre-emergence up to “ground cracking” at 1 to 2 pints per acre for extended control of weeds not yet emerged. Refer to the “THIS PRODUCT APPLIED ALONE” section for a list of weeds controlled.

**3rd Application:** Apply this product at lay-by as directed under “PEANUTS — THIS PRODUCT ALONE”. Use only when late germinating weeds are expected to be a problem. Refer to the “THIS PRODUCT APPLIED ALONE” section for a list of weeds controlled.

**Note:** (1) Do not apply more than the equivalent of 2.66 pints of this product per acre during any one year or illegal residues may result. (2) Do not graze or feed Peanut forage or fodder to livestock for 30 days following application. (3) Do not apply within 90 days of harvest or illegal residues may result.

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

**1st Application:** Apply this product pre-plant incorporated or pre-emergence or at-cracking as directed previously in this section. Refer to the respective section for weeds controlled.

**2nd Application:** Apply this product at lay-by as directed under the section “PEANUTS — THIS PRODUCT ALONE”. Use only when late germinating weeds are expected to be a problem. Refer to the “THIS PRODUCT APPLIED ALONE” section for a list of weeds controlled.

**Notes:** (1) Do not apply more than the equivalent of 2.67 pints of this product per acre during any one year or illegal residues may result. (2) Do not graze or feed Peanut forage or fodder to livestock for 30 days following application. (3) Do not apply within 90 days of harvest or illegal residues may result.

**TANK MIXTURE OR SEQUENTIALLY WITH IMAZETHAPYR (e.g., PURSUIT)**

The tank mixture or sequential treatment of this product and Imazethapyr controls all weeds controlled by this product alone and by Imazethapyr alone. Refer to the “THIS PRODUCT APPLIED ALONE” section for weeds controlled by this product and the Imazethapyr label for weeds controlled by Imazethapyr.

Refer to the respective labels for application methods, timing, rates, restrictions and use precautions. 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 ETHALFLURALIN (e.g., SONALAN)**

The tank mixture controls all weeds controlled by this product alone and by Ethalfluralin alone. Refer to the “THIS PRODUCT APPLIED ALONE” section for weeds controlled by this product and the Ethalfluralin label for weeds controlled by Ethalfluralin. Apply this product + Ethalfluralin pre-plant incorporated using the appropriate rate from Table 3. Follow the soil preparation procedures for Ethalfluralin. Refer to the Ethalfluralin label for incorporation directions.

**Table 3: This Product + Ethalfluralin (e.g., Sonalan) — Peanuts**

Soil Texture	Broadcast Rates Per Acre (Pts.)			
	Southeast		NM, OK, TX	
	This Product	Sonalan	This Product	Sonalan
Coarse	1.0 to 1.33	1.25 to 2.0	0.85 to 1.33	1.25 to 2.0
Medium	1.0 to 1.33	1.75 to 2.5	0.85 to 1.33	1.75 to 2.5
Fine	1.0 to 1.33	2.25 to 3.0	0.85 to 1.33	2.25 to 3.0
<b>Note:</b> Follow all use directions, limitations, use precautions and information regarding application to Peanuts on this product and Sonalan labels.				

**TANK MIXTURE WITH PENDIMETHALIN (e.g., PROWL)**

This product + Pendimethalin applied pre-plant incorporated controls all weeds controlled by this product alone plus Annual spurge, Field sandbur, Johnsongrass from seed, Kochia, Lambsquarters and other weed species on the Pendimethalin label. Apply this product + Pendimethalin 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 + Pendimethalin pre-plant incorporated using the appropriate rates from Table 4.

**Table 4: This Product + Pendimethalin (e.g., Prowl) — Peanuts**

Soil Texture	Broadcast Rates Per Acre (Pts.)	
	NM, OK, TX	Other Peanut Growing States
	This Product + Prowl	This Product + Prowl
Sand, Loamy sand	0.85 + 1.0 to 1.5	1.0 to 1.33 + 1.5 to 2.0
Sandy loam	0.85 to 1.0 + 1.0 to 1.5	1.0 to 1.33 + 1.5 to 2.0
Fine soil	1.33 + 1.0 to 1.5	1.33 + 1.5 to 2.0
<b>Note:</b> Follow all use directions, limitations, use precautions, and information regarding application to Peanuts on this product and Prowl labels.		

**TANK MIXTURE OR SEQUENTIALLY WITH PARAQUAT (e.g., QUIK-QUAT, GRAMOXONE, STARFIRE)**

This product + Paraquat applied at ground cracking or sequentially 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 11 fluid ounces per acre of Starfire with the appropriate rate of this product from the *“PEANUTS - THIS PRODUCT APPLIED ALONE”* section in a minimum spray volume of 20 gallons per acre with ground equipment. A second application of this product + Paraquat may be made 28 days after ground cracking. (Refer to *“Multiple Applications”* under the *“PEANUTS – THIS PRODUCT IN COMBINATIONS”* section of this label for geographical areas where multiple applications are directed.) A second Paraquat 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 OR SEQUENTIALLY WITH PARAQUAT (e.g., QUIK-QUAT, GRAMOXONE, STARFIRE) + BENTAZON (e.g., BASAGRAN)**

The addition of Bentazon to this product + Paraquat mixture will result in improved control of such problem broadleaf weeds as Bristly starbur, Cocklebur, Prickly sida and Smartweed. This product + Paraquat + Bentazon applied at ground cracking or sequentially 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 1 pint per acre of Basagran + 11 fluid ounces per acre of Starfire with the appropriate rate of this product from the *“PEANUTS - THIS PRODUCT ALONE”* section in a minimum spray volume of 20 gallons per acre with ground equipment. A second application of this product + Paraquat + Bentazon may be made 28 days after ground cracking. (Refer to *“Multiple Applications”* under the *“PEANUTS – THIS PRODUCT IN COMBINATIONS”* section of this label for geographical areas where multiple applications are directed.) A second Paraquat + Bentazon 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 OR SEQUENTIALLY WITH PARAQUAT (e.g., QUIK-QUAT, GRAMOXONE, STARFIRE) + 2,4-DB (e.g., BUTYRAC 200, BUTOXONE 200)**

The addition of 2,4-DB to this product + Paraquat mixture will result in improved control of such problem broadleaf weeds as Cocklebur, Morningglory and Sicklepod. This product + Paraquat + 2,4-DB applied at ground cracking or sequentially 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 11 fluid ounces per acre of Starfire + 8 to 16 fluid ounces per acre (0.125 to 0.25 lbs./Ac.) of Butyrac 200 or Butoxone 200 with the appropriate rate of this product from the *“PEANUTS - THIS PRODUCT ALONE”* section in a minimum spray volume of 20 gallons per acre with ground equipment. A second application of this product + Paraquat + 2,4-DB may be made 28 days after ground cracking. (Refer to *“Multiple Applications”* under the *“PEANUTS – THIS PRODUCT IN COMBINATIONS”* section of this label for geographical areas where multiple applications are directed.) A second Paraquat + 2,4-DB 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 OR SEQUENTIALLY WITH BENTAZON (e.g., BASAGRAN)**

This product + Bentazon applied at ground cracking or sequentially will control weed species on the Bentazon label and provide residual control of weed species listed in the *“THIS PRODUCT APPLIED ALONE”* section of this label. Apply 1 to 2 pints per acre of Basagran in 20 gallons per acre depending on weed species and stage of growth as specified on the Basagran label with the appropriate rate of this product from *“PEANUTS - THIS PRODUCT ALONE”* section. A second application of the combination may be made before Peanut pegging. (Refer to *“Multiple Applications”* under the *“PEANUTS – THIS PRODUCT IN COMBINATIONS”* section of this label for geographical areas where multiple applications are directed.) A second Bentazon 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 OR SEQUENTIALLY WITH BENTAZON (e.g., BASAGRAN) + 2,4-DB (e.g., BUTYRAC 200, BUTOXONE 200)**

This product + Bentazon + 2,4-DB applied at ground cracking or sequentially will control weed species on the Bentazon and 2,4-DB labels, especially Morningglories.

Apply 1.5 to 2 pints per acre of Basagran + 8 fluid ounces per acre of Butyrac 200 or Butoxone 200 in 20 gallons per acre depending on weed species and stage of growth as specified on the Basagran label with the appropriate rate of this product from the *“PEANUTS - THIS PRODUCT ALONE”* section. A second application of the combination may be made before Peanut pegging. (Refer to *“Multiple Applications”* under the *“PEANUTS – THIS PRODUCT IN COMBINATIONS”* section of this label for geographical areas where multiple applications are directed.) A second Bentazon + 2,4-DB 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 OR SEQUENTIALLY WITH BENTAZON + ACIFLUORFEN (e.g., STORM)**

This product + Bentazon + Acifluorfen applied at ground cracking through 2 expanded tetra-foliolate leaves or this product applied according to the directions for *“PEANUTS - THIS PRODUCT ALONE”* and followed with an at-cracking through post-emergence treatment of Bentazon + Acifluorfen as specified on its label will control species on the Bentazon + Acifluorfen label and provide residual control of species listed in the *“THIS PRODUCT APPLIED ALONE”* section of this label.

This product will not control emerged weeds. Refer to the *“PEANUTS - THIS PRODUCT ALONE”* section and the Bentazon + Acifluorfen label and follow all directions, limitations and restrictions for each product.

### **POD CROPS — THIS PRODUCT ALONE**

Pod crops, 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, String, Wax), Lentils and Lupines (Sweet, White, White sweet and Grain).

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

**Pre-plant Incorporated or Pre-emergence:** Follow instructions for use of this product alone under the section *“APPLICATION PROCEDURES”*. On coarse soils with less than 3% organic matter, apply 1 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 pints per acre if organic matter content is 3% or greater.

\*On English peas, use only pre-emergence applications. Do not use on English peas in Northeastern U.S. or injury may occur.

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

### **POD CROPS — THIS PRODUCT IN COMBINATIONS**

**Note:** When applying this product in combination on pod crops, do not cut for hay within 120 days following application or illegal residues may result.

### **TANK MIXTURE AND SEQUENTIAL APPLICATIONS WITH EPTC (e.g., EPTEK 7EC) – BEANS (GREEN OR DRY)**

This mixture controls all weeds controlled by this product alone and by EPTC alone. Refer to the “*THIS PRODUCT APPLIED ALONE*” section of this label for weeds controlled by this product alone and the EPTC label for weeds controlled by EPTC.

**Pre-plant Incorporated:** Follow instructions for use of this product alone under the section “*APPLICATION PROCEDURES*”.

**Sequential:** Apply EPTC alone pre-plant incorporated as specified on that label. Follow with a pre-emergence 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 EPTC label for weather, cultural practices and all other use precautions and limitations that affect performance of these products.

Apply 2.5 to 4.5 pints per acre of Eptek 7EC\* with this product as specified.

On coarse soils, apply 0.85 pint per acre of this product if organic matter content is less than 3% or 1 pint per acre if organic matter content is 3% or greater. On medium soils, apply 1 pint per acre of this product if organic matter content is less than 3% or 1.33 pint 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 EPTC label for rate limitations depending on geographical area and for species and varietal restrictions.

**Use Precaution:** Do not exceed 3.5 pints per acre of Eptek 7EC on Small white beans or Green beans grown on coarse textured soils.

### **TANK MIXTURE WITH TRIFLURALIN — BEANS (DRY – KIDNEY, NAVY, PINTO, ETC.; LIMA; AND SNAP)**

This product + Trifluralin tank mix applied pre-plant incorporated controls those weeds listed under “*THIS PRODUCT APPLIED ALONE*” and those weeds listed for Trifluralin alone on the Trifluralin label. This product + Trifluralin may be applied by ground or by aerial equipment and incorporated up to 14 days prior to planting. Follow the procedures on this label and on the respective Trifluralin label using equipment that provides uniform 2 inch incorporation. Apply this product + Trifluralin tank mix using the appropriate rate of this product specified for this product alone and the Trifluralin rate from the Dry beans and the Lima and Snap beans section of the respective Trifluralin label. Choose the product rate for the specific soil texture/organic matter classification and weed species expected.

**Note:** Follow all restrictions and use precautions on the respective Trifluralin label and in the “*POD CROPS – THIS PRODUCT ALONE*” section of this label.

### **POTATOES — THIS PRODUCT ALONE**

Apply this product either incorporated, pre-emergence or 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.

**Incorporated:** Apply this product at 1 to 2 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. Post-plant 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.

**Pre-emergence:** Apply this product at 1 to 2 pints per acre either after planting as a pre-emergence, delayed pre-emergence, after drag-off or hilling treatment, but before weeds emerge. Up to 2.75 pints per acre of this product alone may be used where soil organic matter is between 6% and 20%.

**After Hilling/Lay-by:** Apply 1.67 pints per acre of this product after hilling/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 3.7 pints per acre of this product per year.

**Use 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. To avoid crop injury, (2) Do not use on Sweet potatoes or Yams; (3) Do not apply both as a pre-emergence and an incorporated treatment; and (4) Do not use in Kern County, CA.

**Note:** Potatoes treated with this product should not be harvested within 60 days after the at-planting to drag-off application or within 40 days after a lay-by application or illegal residues may result.

**POTATOES — THIS PRODUCT IN COMBINATIONS**

**TANK MIXTURE WITH METRIBUZIN (e.g., LEXONE, SENCOR)**

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 (e.g., Lexone, Sencor) formulations, will also control 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 to 2 pints per acre plus the labeled Metribuzin use rate may be used pre-emergence through after last hilling. Apply 1 to 1.33 pints per acre of this product on coarse soils and 1.33 to 2 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 label for precautionary statements, restrictions, application information and weeds controlled.

**Use Precautions:** (1) Post-emergence applications to Potatoes should be made only as a directed or semi-directed spray to avoid chlorosis, minor necrosis or leaf distortion. To avoid crop injury, (2) Do not use this product + Metribuzin on Potatoes in Kern County, CA; and (3) Do not apply to Sweet potatoes or Yams. (4) Do not use this tank mixture on muck or peat soils.

**Note:** (1) Potatoes treated with this product in tank mixture with Metribuzin 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.

**TANK MIXTURE WITH LINURON (e.g., LINURON DF) (EAST OF ROCKY MOUNTAINS)**

This product may be applied in a tank-mix combination with any of the registered Linuron formulations as a pre-emergence 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 5.

**Table 5: This Product + Linuron (e.g., Linuron DF) — Potatoes (East of Rocky Mountains)**

Soil Texture	Broadcast Rates Per Acre			
	1% to Less Than 3% Organic Matter		3 - 5% Organic Matter	
	This Product	Linuron DF*	This Product	Linuron DF*
Coarse: Sandy loam	1 pt.	1 to 1.5 lbs.	1.33 pts.	1.5 to 2 lbs.
Medium: Loam, Silt loam, Silt	1.33 pts.	1.5 to 2 lbs.	1.67 to 2 pts.	2 to 2.5 lbs.



\* When using Linuron 4L or Linuron DF, use equivalent rates. One pint of Linuron 4L equals 1.0 lb. of Linuron DF.

**Use 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 Linuron label for precautionary statements, restrictions, application information and weeds controlled.

**TANK MIXTURE WITH PENDIMETHALIN (e.g., PROWL)**

In addition to the weeds controlled by this product alone, this tank mixture with Pendimethalin controls such problem species as Annual spurge, Kochia, Lambsquarters, Purslane, Stinging nettle and others specified on the Pendimethalin label. Apply this product + Pendimethalin pre-emergence, pre-emergence incorporated or early post-emergence according to the specific directions on the Pendimethalin label using the rates in Table 6.

**Table 6: This Product + Pendimethalin (e.g., Prowl) — Potatoes**

Soil Texture	Broadcast Rates Per Acre (Pts.)	
	Less Than 3% Organic Matter	More Than 3% Organic Matter
	This Product + Prowl 4E*	This Product + Prowl 4E*
Coarse	1.0 to 1.33 + 1.0 to 1.5	1.0 to 1.33 + 1.0 to 1.5
Medium	1.33 + 1.5 to 2.0	1.33 to 1.67 + 2.0 to 3.0
Fine	1.33 to 1.67 + 2.0 to 3.0	1.67 to 2.0 + 3.0

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

Refer to this product and Pendimethalin labels and observe all directions, timings, limitations, use precautions and restrictions concerning the use of these products on Potatoes.

**TANK MIXTURE WITH PENDIMETHALIN (e.g., PROWL) + EPTC (e.g., EPTEK 7EC)**

In addition to the weeds controlled by this product alone, this tank mixture will control those weed species on the Pendimethalin and EPTC labels. Refer to this product and the Pendimethalin labels for use rates and add Eptek 7EC at 3.5 to 7 pints per acre depending on geographical area. Refer to the respective labels and observe all directions, limitations, use precautions and restrictions concerning the use of these products on Potatoes.

**SAFFLOWERS – THIS PRODUCT ALONE**

**Pre-plant Incorporated or Pre-emergence:** Follow instructions for use of this product alone under the section “*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 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.

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

Apply this product either pre-plant surface, pre-plant incorporated or pre-emergence, using the appropriate rate specified below. Apply this product alone only when the Sorghum seed has been properly treated by the seed company with Concep or Screen.

**Pre-plant Surface Applied:** Refer to the instructions for this product under “*APPLICATION PROCEDURES*”. For minimum-tillage or no-tillage systems only, this product may be applied 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 before planting, with two-thirds of the broadcast rate applied initially and the remaining one-third 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 either as 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, irrigate after application to move this product into the soil.

**Pre-plant Incorporated or Pre-emergence:** Refer to the instructions for use of this product under the section “*APPLICATION PROCEDURES*”. Broadcast 1 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.

**Use Precautions:** (1) If Sorghum seed is not properly treated with Concep or Screen, this product will severely injure the crop. (2) Under high soil moisture conditions prior to Sorghum emergence, injury may occur following the use 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 pre-plant surface treatment, do not make more than one application per year or illegal residues may result.

## **SORGHUM (GRAIN OR FORAGE) SEED TREATED WITH CONCEP OR SCREEN — THIS PRODUCT IN COMBINATIONS**

This product tank mixed with Atrazine may be applied in water or fluid fertilizer. Apply this product in tank mixtures only when the Sorghum seed has been properly treated by the seed company with Concep or Screen.

**IMPORTANT: FOR TANK MIXTURES WITH 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 specified on this label, broadleaf weed control may be affected. Refer to the Atrazine label for weeds controlled at the reduced rates.

**Use Precautions:** (1) Applications of this product + Atrazine 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 or Screen, this product + Atrazine may severely injure the crop. (3) Under high soil moisture conditions prior to Sorghum emergence, injury may occur following the use of this product + Atrazine. The crop will normally outgrow this effect. (4) Do not use this product + Atrazine on Sorghum grown under dry mulch tillage, or injury may occur. (5) Except for the split pre-plant surface treatment, do not make more than one application per year or illegal residues may result.

### **TANK MIXTURE WITH ATRAZINE**

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

**Pre-plant Surface-Applied:** Refer to the instructions for use of this product under the section “*APPLICATION PROCEDURES*”. For minimum-tillage or no-tillage systems only, this product + Atrazine 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 two-thirds of the broadcast rate applied initially and the remaining one-third applied at planting. Apply 1.5 pints per acre of this product + 1.7 to 2 pounds per acre of Atrazine 90DF\* on medium soils with 1.5 % organic matter or greater. Apply 1.5 pints per acre of this product + 1.7 to 2 pounds per acre of Atrazine 90DF 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, irrigate after application to move this product + Atrazine into the soil.

**Use 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.

**Pre-plant Incorporated or Pre-emergence:** Refer to the instructions for use of this product under the section “*APPLICATION PROCEDURES*”. On medium soils with 1.5% organic matter or greater, apply 1 pint per acre of this product + 1.3 pounds per acre of Atrazine 90DF\*. On fine soils with less than 1.5% organic matter, apply 1 pint per acre of this product + 1.3 pounds per acre of Atrazine 90DF. 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 90DF.

\* When using Atrazine 4L, use equivalent rates. One pound of Atrazine 90DF equals 1.8 pints Atrazine 4L.

**Use 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 the Blacklands areas; and (4) Do not apply pre-plant incorporated in AZ or the Imperial Valley of CA.

**TANK MIXTURE OF THIS PRODUCT OR THIS PRODUCT + ATRAZINE WITH PARAQUAT (e.g., QUIK-QUAT, GRAMOXONE), GLYPHOSATE + 2,4-D (e.g., IMITATOR PLUS D, LANDMASTER BW) OR GLYPHOSATE (e.g., IMITATOR PLUS, IMITATOR DA, ROUNDUP) FOR MINIMUM-TILLAGE OR NO-TILLAGE SYSTEMS**

In minimum-tillage or no-tillage systems where Sorghum (seed treated with Concep or Screen) is planted directly into a cover crop, stale seedbed, established sod or previous crop residues, the contact herbicides Paraquat, Glyphosate + 2,4-D or Glyphosate may be tank mixed with this product or this product + Atrazine. In minimum-tillage and no-tillage systems, mix with Paraquat for control of most emerged annual weeds and suppression of perennial weeds or with Glyphosate + 2,4-D for suppression of emerged Field bindweed and control or suppression of annual weeds or with Glyphosate for control of most emerged annual and perennial weeds. This product or this product plus Atrazine portion of the tank mixture provides pre-emergence 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 use precautions and limitations.

**Application:** Apply before, during or after planting, but before Sorghum emerges, at the appropriate rates listed under “SORGHUM (GRAIN OR FORAGE) SEED TREATED WITH CONCEP OR SCREEN – THIS PRODUCT ALONE” or “Tank Mixture with Atrazine” under “SORGHUM (GRAIN OR FORAGE) SEED TREATED WITH CONCEP OR SCREEN – THIS PRODUCT IN COMBINATIONS” sections, respectively. Add Paraquat, Glyphosate + 2,4-D or Glyphosate:

**Paraquat:** See the Paraquat label for weeds controlled, specified rates and other use directions. Add 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.

**Glyphosate + 2,4-D:** See the Glyphosate + 2,4-D label for weeds controlled, specified rates for specific weeds and other information concerning use.

**Glyphosate:** See the Glyphosate label for weeds controlled, specified rates and other use directions. Apply in a minimum of 20 gallons of water per acre with conventional spray equipment.

**SOYBEANS — THIS PRODUCT ALONE**

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

**Pre-plant Surface-Applied, Pre-plant Incorporated or Pre-emergence, Post-emergence**

For pre-plant surface-applied, pre-plant incorporated or pre-emergence, follow the instructions for use of this product alone under the section “APPLICATION PROCEDURES”. For post-emergence, follow the tank mixture instructions under “Post-emergence Applications” below.

**Pre-plant Surface-Applied:**

**1) 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 15 North of Route 136 in the state of 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 Soybeans or illegal residues may result.

- 2) 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 two-thirds the specified rate of this product (1.67 pts./Ac. on medium soils and 2 pts./Ac. 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 on coarse soils not more than 2 weeks prior to planting.

#### **Pre-plant Incorporated or Pre-emergence:**

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.

**Note:** On Soybeans, this product may be used up to 2.75 pints per acre as a pre-plant surface-applied, pre-plant incorporated or pre-emergence treatment on soils having an organic matter content between 6% and 20%. The total rate of this product applied to Soybeans during any one crop must not exceed 2.75 pints per acre.

#### **Post-emergence Applications:**

##### **Post-emergence (From emergence up through the 3rd trifoliolate leaf stage) (Except CA)**

Apply 1.0 to 1.33 pints per acre as a post-emergence treatment to Soybeans from emergence up through the 3rd trifoliolate leaf stage. This product will not control emerged weeds so it must be applied to a weed-free surface or in tank mixture with products that provide post-emergence control of weeds present at the time of application.

##### **Post-emergence (From emergence up through the 5th trifoliolate leaf stage) (Except CA)**

Apply 1.0 to 1.33 pints per acre as a post-emergence treatment to Soybeans from emergence up through the 5th trifoliolate leaf stage. This product will not control emerged weeds so it must be applied to a weed-free surface or in tank mixture with products that provide post-emergence control of weeds present at the time of application.

**Note:** Make post-emergence applications at least 90 days before harvest.

#### **Use Restrictions**

To avoid possible illegal residues when this product is applied post-emergence to Soybeans, (1) Do not apply more than 1.33 pints per acre post-emergence; (2) Do not graze or feed treated forage or hay from Soybeans to livestock following a post-emergence application of this product; (3) Do not apply a post-emergence application of this product if a pre-plant surface, pre-plant incorporated or pre-emergence application of products containing Metolachlor has already been applied.

#### **SOYBEANS — THIS PRODUCT IN COMBINATIONS**

Water or fluid fertilizer may be used as carrier for this product in combination with Metribuzin (e.g., Lexone, Sencor), Linuron (e.g., Linuron DF, Lorox Plus), Prodiamine + Isoxaben (e.g., Gemini), Metribuzin + Chlorimuron (e.g., Canopy, Preview), Imazethapyr (e.g., Pursuit), Imazaquin (e.g., Scepter), Ethalfuralin (e.g., Sonalan) or Clomazone (e.g., Command).

**Note:** For all of the following combinations, this product may be used up to 2.5 pints per acre on soils having an organic matter content between 6% and 20%. The total rate of this product applied to Soybeans during any one crop year must not exceed 2.75 pints per acre.

#### **PRE-PLANT / PRE-EMERGENCE APPLICATIONS**

##### **Tank Mixture with Metribuzin (e.g., Lexone, Sencor)**

In addition to those weeds controlled by this product alone, this product + Metribuzin when applied as directed also controls the following broadleaf weeds: Cocklebur\*, Hairy nightshade, Hemp sesbania, Jimson weed\*, Lambsquarters, Prickly sida, Ragweed, Smartweed, Velvetleaf, Venice mallow and Wild mustard.

\* Partially controlled.

Apply this product and Metribuzin pre-plant incorporated or pre-emergence using the appropriate rates from Table 7.

**Sequential:** Apply this product alone pre-plant incorporated as specified in Table 7 for this tank mixture. Follow with a pre-emergence application of Metribuzin during planting (behind the planter) or after planting, but before weeds or Soybeans emerge.

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

**Table 7: This Product + Metribuzin (e.g., Lexone, Sencor) — Soybeans**

Soil Texture*	Broadcast Rates Per Acre	
	0.5 to Less Than 3% Organic Matter	3% Organic Matter or Greater
	This Product + Lexone DF** or Sencor	This Product + Lexone DF** or Sencor
Coarse: Loamy sand (over 2% organic matter), Sandy loam	0.85 to 1.0 pt. + 0.33 lb.	1.0 pt. + 0.5 lb.
Medium	1.0 to 1.33 pts. + 0.5 lb.	1.33 pts. + 0.67 lb.***
Fine	1.33 pts. + 0.67 lb.	1.33 to 1.67 pts. + 0.67 lb.
Mississippi Delta Only: Silty clay, Clay	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	
* On all sand and on loamy sand with less than 2% organic matter, do not use this tank mixture pre-emergence or the sequential treatment. Do not use the tank mixture pre-plant incorporated on any sand, loamy sand or sandy loam or crop injury may occur.		
** When using Lexone 4L or Sencor 4, multiply pounds of DF by 1.5 to get pints per acre.		
*** Use 0.5 lb./Ac. if applied pre-plant incorporated.		

**Use 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.

**Tank Mixture with Linuron (e.g., Linuron DF)**

In addition to those weeds controlled by this product alone, this product + Linuron applied pre-emergence also controls the following broadleaf weeds: Cocklebur\*, Jimsonweed\*, Lambsquarters, Morningglory\*, Prickly sida, Ragweed, Smartweed, Velvetleaf\*, Venice mallow and Wild mustard.

\* Partially controlled.

**Pre-emergence:** Apply during planting (behind planter) or after planting, but before weeds or Soybeans emerge. Refer to the Linuron label for planting details. Apply the appropriate rates from Table 8.

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

**Table 8: This Product + Linuron (e.g., Linuron DF) — Soybeans**

	Broadcast Rates Per Acre
--	--------------------------

Soil Texture*	0.5 to Less Than 3% Organic Matter	3% Organic Matter or Greater
	This Product + Linuron DF***	This Product + Linuron DF***
Coarse**	0.85 pt. + 1.0 lb.	1.0 pt. + 1.0 to 1.5 lbs.
Medium	1.0 pt. + 1.0 to 1.5 lbs.	1.33 pts. + 1.5 to 2.0 lbs.
Fine	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	
<p>* 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 Linuron 4L or Linuron DF, use equivalent rates. One pint of Linuron 4L equals 1.0 pound of Linuron DF.</p>		

### Tank Mixture with Linuron (e.g., Lorox Plus)

This tank mixture controls all weeds controlled by this product alone and by Linuron alone. Refer to the “THIS PRODUCT APPLIED ALONE” section for weeds controlled by this product and the Linuron label for weeds controlled by Linuron. Apply this product + Linuron pre-emergence after planting, but before Soybeans emerge using rates in Table 9.

**Note:** Follow all use directions, limitations, use precautions and information regarding application to Soybeans, and rotational restrictions on this product and Linuron labels.

**Table 9: This Product + Linuron (e.g., Lorox Plus) — Soybeans**

Soil Texture	Broadcast Rates Per Acre	
	0.5 to 3% Organic Matter	
	This Product	Lorox Plus (60DF)
Coarse	0.85 pt.	12 to 14 ozs.
Medium	1.0 pt.	14 to 16 ozs.
Fine	1.33 pts.	16 to 18 ozs.

**Use 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 6.8.

### Tank Mixture with Trifluralin (e.g., Trifluralin E.C.)

This product + Trifluralin tank mix applied pre-plant incorporated controls those weeds listed under the “THIS PRODUCT APPLIED ALONE” section and those weeds listed for Trifluralin Alone on the Trifluralin label. This product + Trifluralin may be applied by ground or by aerial equipment and incorporated up to 14 days before planting.

Follow the procedures on the Trifluralin and this product labels using equipment that provides uniform 2 inch incorporation. Apply this product + Trifluralin tank mix using the appropriate rate from the “SOYBEANS — THIS PRODUCT ALONE” section of this label and the Trifluralin Alone section on the Trifluralin label for the specified 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 10.

**Table 10: This Product + Trifluralin (e.g., Trifluralin E.C.) — Organic Matter Content Less Than 3%**

Soil Texture	Broadcast Rates Per Acre (Pts.)		
	This Product Organic Matter Less than 3%	Trifluralin E.C.** Organic Matter	
		Less than 2%	2 to 3%
	Coarse*	0.85 to 1.0	1.0
Medium	1.0	1.5	1.5
Fine	1.33	2.0	2.0
* 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 Trifluralin 5G is used, use comparable rates. Multiply pints of Trifluralin E.C. by 1 for Treflan MTF and by 0.8 for Trifluralin 5G.

**Note:** Follow all restrictions and use precautions on the respective Trifluralin label and in the “SOYBEANS — *THIS PRODUCT ALONE*” section of this label.

**Tank Mixture with Imazaquin (e.g., Scepter)**

This tank mixture controls all weeds controlled by this product alone and by Imazaquin alone. Refer to the “*THIS PRODUCT APPLIED ALONE*” section for weeds controlled by this product and the Imazaquin label for weeds controlled by Imazaquin. Refer to the Imazaquin label for geographical locations where this tank mixture may be applied. Apply this product + Imazaquin pre-plant incorporated or pre-emergence, using rates in Table 11. Follow use directions and application instructions on the Imazaquin label. For pre-plant incorporated applications, apply and incorporate within 30 days before planting. Observe all other use precautions and limitations on the Imazaquin label.

**Table 11: This Product + Imazaquin (e.g., Scepter) — Soybeans**

Soil Texture	Broadcast Rates Per Acre (Pts.)			
	Less Than 3% Organic Matter		3% or More Organic Matter	
	This Product	Scepter	This Product	Scepter
Coarse	0.85	0.67	1.0	0.67
Medium	1.0	0.67	1.33	0.67
Fine	1.33	0.67	1.33 to 1.67*	0.67
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.				

**Note:** (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.

**Tank Mixture with Prodiamine + Isoxaben (e.g., Gemini)**

This tank mixture controls all weeds controlled by this product alone and by Prodiamine + Isoxaben alone. Refer to the “*THIS PRODUCT APPLIED ALONE*” section for weeds controlled by this product and the Prodiamine + Isoxaben label for weeds controlled by Prodiamine + Isoxaben. Apply this product + Prodiamine + Isoxaben pre-emergence after planting, but before Soybeans emerge using rates in Table 12.

**Note:** Follow all use directions, limitations, use precautions and information regarding application to Soybeans, and rotational restrictions on this product and Prodiamine + Isoxaben labels.

**Table 12: This Product + Prodiamine + Isoxaben (e.g., Gemini) — Soybeans**

Soil Texture	Broadcast Rates Per Acre	
	0.5 to 3% Organic Matter	
	This Product	Gemini (60DF)
Coarse: Sandy loam only	0.85 pt.	12 to 16 ozs.
Medium	1.0 pt.	16 to 20 ozs.
Fine	1.33 pts.	20 to 24 ozs.

**Use Precaution:** Do not apply to sand or loamy sand or to any soil with less than 0.5% organic matter or to any soil with pH greater than 7 except as noted on the Prodiamine + Isoxaben label.

**Tank Mixture with Metribuzin + Chlorimuron (e.g., Canopy)**

This tank mixture controls all weeds controlled by this product alone and by Metribuzin + Chlorimuron alone. Refer to the *“THIS PRODUCT APPLIED ALONE”* section for weeds controlled by this product and the Metribuzin + Chlorimuron label for weeds controlled by Metribuzin + Chlorimuron.

Apply pre-plant incorporated or pre-emergence, using the appropriate rates from Table 13.

**Pre-plant Incorporated:** Apply within 2 weeks of planting. Uniformly incorporate into the top 1 to 2 inches of soil before planting Soybeans.

**Pre-emergence:** Apply after planting, but before Soybeans emerge.

**Note:** Follow all use directions, varietal restrictions, limitations, use precautions and information regarding application to Soybeans and rotational restrictions on this product and Metribuzin + Chlorimuron labels.

**Table 13: This Product + Metribuzin + Chlorimuron (e.g., Canopy) — Soybeans**

Soil Texture	Broadcast Rates Per Acre		
	Less than 3% Organic Matter		3% or More Organic Matter
	This Product	This Product	Canopy
Coarse	0.85 pt.	1.0 pt.	*
Medium	1.0 pt.	1.33 pts.	*
Fine	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.

**Use Precaution:** Do not apply to sand, to any soil with less than 0.5% organic matter or to any soil with pH greater than 7 except as noted on the Metribuzin + Chlorimuron label.

**Tank Mixture with Metribuzin + Chlorimuron (e.g., Preview)**

This tank mixture controls all weeds controlled by this product alone and by Metribuzin + Chlorimuron alone. Refer to the *“THIS PRODUCT APPLIED ALONE”* section for weeds controlled by this product and the Metribuzin + Chlorimuron label for weeds controlled by Metribuzin + Chlorimuron. Apply pre-plant incorporated or pre-emergence using the appropriate rates from Table 14.

**Pre-plant Incorporated:** Apply within 2 weeks of planting. Uniformly incorporate into the top 1 to 2 inches of soil before planting Soybeans.

**Pre-emergence:** Apply after planting, but before Soybeans emerge.

**Note:** Follow all use directions, varietal restrictions, limitations, use precautions and information regarding application to Soybeans and rotational restrictions on this product and Metribuzin + Chlorimuron labels.

**Table 14: This Product + Metribuzin + Chlorimuron (e.g., Preview) — Soybeans**

Soil Texture	Broadcast Rates Per Acre			
	0.5 to Less Than 3% Organic Matter		3 to 5% Organic Matter	
	This Product	Preview 75DF	This Product	Preview 75DF
Coarse	0.85 pt.	6.0 ozs.	1.0 pt.	7.0 ozs.
Medium	1.0 pt.	7.0 ozs.	1.33 pts.	8.0 ozs.
Fine	1.33 pts.	8.0 ozs.	1.33 to 1.67 pts.	9.0 to 10 ozs.

**Use Precaution:** Do not apply to sand, to any soil with less than 0.5% organic matter or any soil with pH greater than 6.8.

**Tank Mixture with Clomazone (e.g., Command)\***

This tank mixture controls all weeds controlled by this product alone and by Clomazone alone. Refer to the “THIS PRODUCT APPLIED ALONE” section for weeds controlled by this product and the Clomazone label for weeds controlled by Clomazone. Apply this product + Clomazone pre-plant incorporated using rates in Table 15. Follow all Clomazone application instructions as to incorporation interval, geographical location, equipment operation, soil moisture conditions, etc.

\* **Note:** Before making applications, read and strictly follow all use directions, limitations, use precautions and information regarding application to Soybeans and rotational restrictions on this product and the Clomazone labels.

**Table 15: This Product + Clomazone (e.g., Command) — Soybeans**

Soil Texture	Broadcast Rates Per Acre (Pts.)			
	This Product		Command 4E	
	0.5 - 3% Organic Matter	Greater than 3% Organic Matter	Northern Area	Southern Area
Coarse	0.85	1.0	1.5 to 2.0	2.0 to 2.5
Medium	1.0	1.33	1.5 to 2.0	2.0 to 2.5
Fine	1.33	1.33 to 1.67	1.5 to 2.0	2.0 to 2.5

**Tank Mixture with Ethalfluralin (e.g., Sonalan)**

This tank mixture controls all weeds controlled by this product alone and by Ethalfluralin alone. Refer to the “THIS PRODUCT APPLIED ALONE” section for weeds controlled by this product and the Ethalfluralin label for weeds controlled by Ethalfluralin. Apply this product and Ethalfluralin pre-plant incorporated using the appropriate rates from Table 16.

**Pre-plant Incorporated:** Follow soil preparation procedures for Ethalfluralin. Refer to the Ethalfluralin label for incorporation directions.

**Sequential:** Apply Ethalfluralin alone pre-plant incorporated as specified on the Ethalfluralin label. Follow with a pre-emergence application of this product during planting (behind the planter) or after planting, but before weeds or Soybeans emerge.

**Table 16: This Product + Ethalfluralin (e.g., Sonalan) — Soybeans**

Soil Texture*	Broadcast Rates Per Acre (Pts.)			
	Less Than 3% Organic Matter		3% or More Organic Matter	
	This Product	Sonalan	This Product	Sonalan
Coarse	1.0 to 1.33	1.25 to 2.0	1.33	1.25 to 2.0
Medium*	1.33 to 1.67	1.75 to 2.5	1.33 to 1.67	1.75 to 2.5
Fine*	1.33 to 1.67	2.25 to 3.0	1.67 to 2.0	2.25 to 3.0
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 pts. per acre on fine textured soils and follow with 2 incorporation passes.				

**Note:** Follow all use directions, limitations, use precautions and information regarding application to Soybeans on this product and Ethalfluralin labels.

### Tank Mixture with Imazethapyr (e.g., Pursuit)

This tank mixture controls all weeds controlled by this product alone and by Imazethapyr alone. Refer to the “*THIS PRODUCT APPLIED ALONE*” section for seeds controlled by this product and the Imazethapyr label for weeds controlled by Imazethapyr. Refer to the Imazethapyr label for geographical locations where this tank mixture may be applied. Apply this product + Imazethapyr early pre-plant, pre-plant incorporated, or pre-emergence after planting, using rates in Table 17. Application can be made in water or liquid fertilizer. Follow all use directions under Soil Applications on the Imazethapyr label. For early pre-plant and pre-plant incorporated applications, apply within 30 days before planting.

**Note:** Follow all use directions, limitations, use precautions and information regarding application to Soybeans and rotational restrictions on this product and Imazethapyr labels.

**Table 17: This Product + Imazethapyr (e.g., Pursuit) — Soybeans**

Soil Texture	Broadcast Rates Per Acre (Pts.)		
	Less Than 3% Organic Matter	3% or More Organic Matter	
	This Product	This Product	Pursuit
Coarse	0.85	1.0	0.25
Medium	1.0	1.33	0.25
Fine	1.33	1.33 to 1.67	0.25

**Sequential:** Apply this product early pre-plant, pre-plant incorporated or pre-emergence after planting at 0.85 pint per acre on coarse soils and 1 pint per acre on medium- and fine-textured soils. Follow with a sequential post-emergence application of Imazethapyr to control emerged weeds according to the Imazethapyr label. This product will improve the consistency and level of control from Imazethapyr on most grass species. Refer to the Imazethapyr post-emergence label for a listing of weeds controlled, application rate and growth stage limitations.

### Tank Mixture with Metribuzin (e.g., Lexone, Sencor), Imazaquin (e.g., Scepter), Linuron (e.g., Linuron DF, Lorox Plus), Prodiamine + Isoxaben (e.g., Gemini), Metribuzin + Chlorimuron (e.g., Canopy, Preview) or Imazethapyr (e.g., Pursuit), Paraquat (e.g., Quik-Quat, Gramoxone) or Glyphosate (e.g., Imitator Plus, Imitator DA, Roundup) 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 Paraquat or Glyphosate may be added to a tank mix of either this product + Metribuzin, this product + Imazaquin, this product + Linuron, this product + Prodiamine + Isoxaben, this product + Metribuzin + Chlorimuron or this product + Imazethapyr. When used as directed, the Paraquat portion of the tank mixture controls most emerged weeds and suppresses many perennial weeds. Glyphosate combinations will control emerged annual and perennial weeds when applied as directed on the Glyphosate label. This product + Metribuzin, Imazaquin, Linuron, Prodiamine + Isoxaben, Metribuzin + Chlorimuron or Imazethapyr portion of the tank mixture provides pre-emergence control of the weeds listed on this label in the tank mixture section for this product + Metribuzin, this product + Imazaquin, this product + Linuron, this product + Prodiamine + Isoxaben, this product + Metribuzin + Chlorimuron and this product + Imazethapyr, 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 use precautions and limitations.

Refer below for rates of Paraquat or Glyphosate, this product + Metribuzin, this product + Imazaquin, this product + Linuron, this product + Prodiamine + Isoxaben, this product + Metribuzin + Chlorimuron and this product + Imazethapyr, respectively.

**Application:** Apply before, during or after planting, but before the Soybeans emerge at the rates specified below. Add Paraquat or Glyphosate:

**Paraquat:** See the Paraquat label for weeds controlled, specified rates and other use directions. Add 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 Paraquat in suspension-type liquid fertilizers as the activity of paraquat will be reduced.

**Glyphosate:** See the Glyphosate label for weeds controlled, specified rates and other use directions. Apply in 20 to 60 gallons of water or fluid fertilizer per acre with ground equipment.

**This Product + Metribuzin (e.g., Lexone, Sencor) + Paraquat or Glyphosate:** On loamy sand with over 2% organic matter, apply 1 pint per acre of this product + 0.33 to 0.5 pound per acre of Sencor or Lexone DF. On medium soils, apply 1.33 pints per acre of this product + 0.5 to 0.67 pound per acre of Sencor or Lexone DF.

On fine soils, apply 1.33 to 1.67 pints per acre of this product + 0.67 pound per acre of Sencor or Lexone DF.

\* When using Sencor 4 or Lexone 4L, multiply pounds of DF by 1.5 to get pints per acre.

**Use 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 + Imazaquin (e.g., Scepter) + Paraquat or Glyphosate:** On coarse soils, apply 1 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 pint per acre of Scepter.

**Note:** (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 + Linuron (e.g., Linuron DF) + Paraquat or Glyphosate:** On coarse soils\*, apply 1 pint per acre of this product + 1 to 1.5 pounds per acre of Lorox DF\*\*. On medium soils, apply 1.33 pints per acre of this product + 1 to 2 pounds per acre of Linuron DF. On fine soils, apply 1.33 to 1.67 pints per acre of this product + 2 to 3 pounds per acre of Linuron 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 Linuron 4L or Linuron DF, use equivalent rates. One pint of Linuron 4L equals 1.0 pound of Linuron DF.

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

**This Product + Linuron (e.g., Lorox Plus) + Paraquat or Glyphosate:** Use only where soils have 0.5 to 3% organic matter. On coarse soils, apply 1 pint per acre of this product + 12 to 14 ounces per acre of Lorox Plus 60DF. On medium soils, apply 1.33 pints per acre of this product + 14 to 16 ounces per acre of Lorox Plus. On fine soils, apply 1.33 to 1.67 pints per acre of this product + 16 to 18 ounces per acre of Lorox Plus.

**Use Precaution:** Do not apply to sand or to any soil with pH greater than 6.8.

**This Product + Prodiamine + Isoxaben (e.g., Gemini) + Paraquat or Glyphosate:** Use only where soils have 0.5 to 3% organic matter. On coarse soils (sandy loam only), apply 1 pint per acre of this product + 12 to 16 ounces per acre of Gemini 60DF. On medium soils, apply 1.33 pints per acre of this product + 16 to 20 ounces per acre of Gemini. On fine soils, apply 1.33 to 1.67 pints per acre of this product + 20 to 24 ounces per acre of Gemini.



**Use Precaution:** Do not apply to sand or loamy sand or to any soil with less than 0.5% organic matter or to any soil with pH greater than 7 except as noted on the Gemini label.

**This Product + Metribuzin + Chlorimuron (e.g., Canopy) + Paraquat or Glyphosate:** Use only where soils have 0.5 to 5% organic matter. On coarse soils (except sand), apply 1 pint per acre of this product. On medium soils, apply 1.33 pints per acre of this product. 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.

**Use 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 except as noted on the Canopy label.

**This Product + Metribuzin + Chlorimuron (e.g., Preview) + Paraquat or Glyphosate:** Use only where soils have 0.5 to 5% organic matter. On coarse soils (except sand), apply 1 pint per acre of this product + 6\* to 7 ounces per acre of Preview 75DF. On medium soils, apply 1.33 pints per acre of this product + 7\* to 8 ounces per acre of Preview. On fine soils, apply 1.33 to 1.67 pints per acre of this product + 8\* to 9 to 10 ounces per acre of Preview.

\* Use this rate where the soil organic matter is in the one-half to less than 3% range.

**Use Precaution:** Do not apply to sand, to any soil with less than 0.5% organic matter or to any soil with pH greater than 6.8.

**This Product + Imazethapyr (e.g., Pursuit) + Paraquat or Glyphosate:** On coarse soils, apply 1 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.

## **POST-EMERGENCE APPLICATIONS (Except CA)**

### **Tank Mixture with Glyphosate Products**

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 (3rd) (5th) trifoliolate 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 post-emergence use in Roundup Ready or glyphosate-tolerant soybeans.

### **Tank Mixture with Glufosinate Ammonium (Liberty) Products**

This product at 1.0 to 1.33 pints per acre may be tank mixed with Glufosinate products at labeled rates and applied from emergence up through the (3rd) (5th) trifoliolate 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).

**Use Precaution:** The use of adjuvants such as COC or UAN with this product may result in temporary crop injury.

**Use Restrictions:** To avoid possible illegal residues when this product is applied post-emergence to Soybeans, (1) Do not apply more than 1.33 pints per acre post-emergence; (2) Do not graze or feed treated forage or hay from Soybeans to livestock following a post-emergence application of this product.

**Note:** (1) Follow the tank mix product label for adjuvant directions. (2) Make post-emergence application at least 90 days before harvest.

## **TOMATOES**

### **SEEDED TOMATOES**

This product may be applied post-directed to direct seeded Tomatoes. Plants must be at least 4 inches tall at the time of application and the product must be applied in a minimum of 20 gallons of water per acre.

Minimize spray contact with plants. This product will not control emerged weeds.

**TRANSPLANTED TOMATOES ONLY**

This product may be applied pre-plant incorporated or pre-plant before transplanting. If the latter method is used, keep soil disturbance to a minimum during transplanting. Application may also be made post-directed to transplants after the first settling rain or irrigation. When an application is made post-directed, apply in a minimum of 20 gallons of water per acre and minimum contact with Tomato plants. This product will not control emerged weeds. In bedded transplanted Tomatoes, apply this product pre-plant 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.

**Table 18: This Product – Tomatoes**

Type of Soil	Organic Matter Content (%)	This Product per Acre (Pts.)
Coarse	< 3	1.0 to 1.33
	> 3	1.33
Medium, Fine	-	1.33 to 1.67
Fine	< 3	1.33 to 1.67
	> 3	> 1.67 to 2.0

**Use Precautions**

- Do not apply to varieties or cultivars with unknown tolerance to this product.
- 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.
- In transplanted Tomatoes, if this product is applied pre-plant 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.
- For row middle applications where plants are grown on sandy soils and where high soil moisture conditions can exist (i.e. 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. This risk of this type of injury can be reduced by: a) incorporating this product immediately following application (Tomato only); 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.

**Use Restrictions:** To avoid possible illegal residues, 1) Do not apply this product within 90 days of Tomato harvest; 2) Do not exceed the maximum label rate for the soil texture per year; 3) Apply by ground application only; 4) Do not apply more than one post-emergence application per year.

<b>STORAGE AND DISPOSAL</b>
-----------------------------

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

**PESTICIDE STORAGE:** Keep container closed to prevent spills and contamination. Store in original container.

**PESTICIDE 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 DISPOSAL:**

**Nonrefillable Container (rigid material; ≤ 5 gallons):** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container one-fourth full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

*(Continued)*

*(Continuation)*

**Nonrefillable Container (rigid material; > 5 gallons up to < 250 gallons):** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill container one-fourth full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**Refillable Container (≥ 250 gallons & Bulk):** Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Dispose of empty container in a sanitary landfill, or by incineration, or by other procedures allowed by State and local authorities.

## WARRANTY – CONDITIONS OF SALE

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

Manufactured By:



ME-TOO-LACHLOR, MIX, IMITATOR and the DREXEL logo are either trademarks or registered trademarks of Drexel Chemical Company. All other product names, brand names or trademarks belong to their respective holders.