



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

November 10, 2021

Mandy K. Styles  
Registration Manager  
Drexel Chemical Company  
P.O. Box 13327  
Memphis, TN 38113-0327

Subject: Registration Review Label Amendments for ATRAZINE Incorporating Mitigation Measures from the Interim Decision and the Technical Registrants' Commitments for the Endangered Species Act (ESA) Biological Evaluation  
*Product Name:* DREXAL ATRAZINE 90DP  
*EPA Registration Number:* 19713-499  
*Application Date:* 10/28/2020  
*Decision Number:* 567330

Dear Ms. Styles:

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 ATRAZINE Interim Decision and with the technical registrants' commitments for the ESA Biological Evaluation. 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.

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

Page 2 of 2  
EPA Reg. No. 19713-499  
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CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 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 Srijana Shrestha at [shrestha.srijana@epa.gov](mailto:shrestha.srijana@epa.gov).

Sincerely,

A handwritten signature in cursive script that reads "Kelly Sherman".

Kelly Sherman  
Chief, Risk Management and Implementation  
Branch III (RMIB III)  
Pesticide Re-Evaluation Division  
Office of Pesticide Programs  
U.S. Environmental Protection Agency

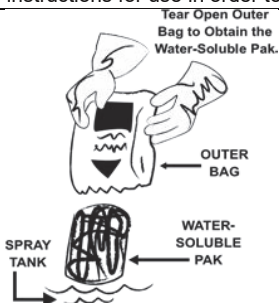
Enclosure

# RESTRICTED USE PESTICIDE

(Ground and Surface Water Concerns)

For retail sale to and use only by certified applicators or persons under their direct supervision and only for those uses covered by the certified applicator's certification.

This product is a Restricted Use Herbicide due to ground and surface water concerns. Users must read and follow all precautionary statements and instructions for use in order to minimize potential for Atrazine to reach ground and surface water.



ATRAZINE GROUP 5 HERBICIDE



**ACCEPTED**  
11/10/2021  
Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 19713-499

## Atrazine 90DP

Herbicide

For season-long weed control in Corn, Fallowland, Guava, Lawns, Macadamia nuts, Sorghum, Sugarcane and Turf.

### ACTIVE INGREDIENT:

Atrazine .....	88.4%
Related compounds .....	1.6%
<b>OTHER INGREDIENTS:</b> .....	<u>10.0%</u>
<b>TOTAL:</b> .....	100.0%

Contains 22.5 pounds of active ingredients per 25 pound water-soluble bag.

**KEEP OUT OF REACH OF CHILDREN**

## CAUTION

[See FIRST AID Below]

[See Side (Back) Panel for FIRST AID];

[See Page \_\_\_ for FIRST AID]

[See Container Labeling for (FIRST AID and Complete Directions for Use]

[See (Attached) Booklet (Container Labeling) for Complete Directions for Use]

EPA Reg. No. 19713-499

Net Content: 25 Lbs.

EPA Est. No. 19713-XX-X

Water Soluble Package

### FIRST AID

#### 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.

#### IF ON SKIN OR CLOTHING:

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

#### IF IN EYES:

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

#### 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.
- Call a poison control center or doctor for further 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.

**NOTE TO PHYSICIAN:** There is no specific antidote for Atrazine. If this product is ingested, induce emesis or lavage stomach. The use of an aqueous slurry of activated charcoal may be considered.

### PRECAUTIONARY STATEMENTS

#### Hazards to Humans and Domestic Animals

**CAUTION:** Harmful if swallowed. Avoid breathing of dust. Do not take internally. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

**Applicators using spray equipment mounted on their backs must wear:** Coveralls over long-sleeved shirt and long pants, chemical-resistant gloves made of barrier laminate, nitrile rubber  $\geq$  14 mils, neoprene rubber  $\geq$  14 mils, or viton  $\geq$  14 mils and chemical-resistant footwear plus socks. Wear a minimum of a NIOSH-approved particulate filtering facepiece respirator with any N\*, R or P filter; OR a NIOSH-approved elastometric particulate respirator with any N\*, R or P filter;

OR a NIOSH-approved powered air purifying respirator with HE filters.

**Mixers, loaders, applicators and other handlers must wear:** Long-sleeved shirt and long pants, chemical-resistant gloves made of barrier laminate, nitrile rubber  $\geq$  14 mils, or viton  $\geq$  14 mils, shoes plus socks, chemical-resistant apron, when mixing/loading, cleaning up spills, cleaning equipment, or otherwise exposed to the concentrate.

#### Aerial application is prohibited.

See "ENGINEERING CONTROLS" for additional requirements. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

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

Manufactured By:

**SINCE 1972**

## Drexel Chemical Company

P.O. Box 13327, Memphis, TN 38113-0327 499WSP-1020\* Pending

### ENGINEERING CONTROLS

Water-soluble packets when used correctly qualify as a closed mixing / loading system under the Worker Protection Standard (WPS) for Agricultural Pesticides [40CFR 170.607(d)]. Mixers and loaders handling this product while it is enclosed in intact water-soluble packets may elect to wear reduced PPE of long sleeved shirt, long pants, shoes, socks, a chemical-resistant apron, and chemical-resistant gloves. When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "Mixers, loaders, applicators and other handlers" and have such PPE immediately available for use in an emergency, such as in case of spill or equipment breakdown.

### USER SAFETY RECOMMENDATIONS

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

### ENVIRONMENTAL HAZARDS

Atrazine can travel (seep or leach) through soil and can enter groundwater which may be used as drinking water. Atrazine has been found in groundwater. Users are advised not to apply Atrazine to *Sand* and *Loamy sand soils* where the water table (groundwater) is close to the surface and where these soils are very permeable, i.e., well-drained. Your local agricultural agencies can provide further information on the type of soil in your area and the location of groundwater.

This product must not be mixed or loaded within 50 feet of intermittent streams and rivers, natural or impounded lakes and reservoirs. This product must not be applied within 66 feet of points where field surface water runoff enters perennial or intermittent streams and rivers or within 200 feet of natural or impounded lakes and reservoirs. If this product is applied to highly erodible land, the 66 foot buffer or setback from runoff entry points must be planted to crop, or seeded with Grass or other suitable crop.

This product must not be mixed or 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 washwater, and rainwater 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 sites. Additional state imposed requirements regarding well-head setbacks and operational area containment must be observed.

This pesticide is toxic to aquatic invertebrates. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater.

### TILE-OUTLETTED TERRACED FIELDS CONTAINING STANDPIPES

One of the following restrictions must be used in applying Atrazine to tile-outletted terraced fields containing standpipes.

1. Do not apply this product within 66 feet of standpipes in tile-outletted terraced fields.
2. Apply this product to the entire tile-outletted terraced field and immediately incorporate it to a depth of 2 to 3 inches in the entire field.
3. Apply this product to the entire tile-outletted terraced field under a no-till practice only when high crop residue management practices are used. High crop residue management practice is described as a crop management practice where little or no crop residue is removed from the field during and after crop harvest.

### 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 nontarget organisms by following label directions intended to minimize drift.

### DIRECTIONS FOR USE

#### RESTRICTED USE PESTICIDE

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

#### ENDANGERED SPECIES

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 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.

#### USE SITE RESTRICTION

Not for use in the state of Hawaii or Alaska, or in the U.S. territories (Puerto Rico, Guam, American Samoa, the U.S. Virgin Islands, and the North Mariana Islands).

Use on Roadsides; Conservation Reserve Program (CRP) land; Conifers, including Christmas Tree plantings; Timber; Forestry; and, Miscanthus and other Perennial Bioenergy crops is prohibited.

ANY USE OF THIS PRODUCT IN AN AREA WHERE USE IS PROHIBITED IS A VIOLATION OF FEDERAL LAW. Before using this product, you must consult the Atrazine Watershed Information Center (AWIC) to determine whether the use of this product is prohibited in your watershed. AWIC can be accessed through [www.Atrazine-watershed.info](http://www.Atrazine-watershed.info), or 1-866-365-3014. If use of this product is prohibited in your watershed, you may return this product to your point of purchase or contact Drexel Chemical Company for a refund.

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

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard (WPS), 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, greenhouses and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about Personal Protective Equipment (PPE) and Restricted Entry Interval (REI). The requirements in this box only apply to uses of this product that are covered by the WPS.

Do not enter or allow worker entry into treated areas during the REI of 12 hours. **Exception:** If the product is soil-injected or soil incorporated, the Worker Protection Standard, under certain

circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the WPS and that involves contact with anything that has been treated, such as plants, soil or water is: Coveralls, chemical-resistant gloves made of barrier laminate, nitrile rubber  $\geq$  14 mils, neoprene rubber  $\geq$  14 mils, or viton  $\geq$  14 mils, and shoes plus socks.

### NON-AGRICULTURAL USE REQUIREMENTS

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

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

### GENERAL INFORMATION

ATRAZINE 90DP Herbicide will control most annual Broadleaf and Grass weeds in Corn, Sorghum, Sugarcane and certain other crops as specified on this label. This product may be applied before or after weeds emerge.

In each case where a range of rates is given, the lower rate should be used on *Coarse textured soil* and soils low in organic matter and the higher rate should be used on *Fine textured soil* and soils high in organic matter. Following many years of continuous use of this product and chemically related products, biotypes of some of the weeds listed on this label have been reported which cannot be effectively controlled by this and related herbicides. Where this is known or suspected and weeds controlled by this product are expected to be present along with resistant biotypes, we recommend the use of this product in combinations or in sequence with other registered herbicides which are not Triazines. If only resistant biotypes are expected to be present, use a registered non-Triazine herbicide. Consult with your State Agricultural Extension Service for specific recommendations. Since this product acts mainly through root absorption, its effectiveness depends on moisture to move it into the root zone. Should weeds develop, a shallow cultivation or rotary hoeing will generally result in better weed control.

This product is non-corrosive to equipment and metal surfaces, nonflammable and has low electrical conductivity. Avoid using this product near adjacent desirable plants or in greenhouses or injury may occur. To avoid spray drift, do not apply under windy conditions. Avoid spray overlap, as crop injury may result.

**Note:** The Seller does not recommend the use of this product in combination with other herbicides or oils except as specifically described on the label or in literature published by the Seller.

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

Do not apply this product through any type of irrigation system.

### WEED RESISTANCE MANAGEMENT

#### ATRAZINE GROUP 5 HERBICIDE

For resistance management, this product is a Group 5 mode of action herbicide. Any weed population may contain or develop plants naturally resistant to this product and other Group 5 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 5 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 noncontrolled 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.

### MANDATORY SPRAY DRIFT MANAGEMENT SPRAY DRIFT

#### 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 use a coarse or coarser droplet size (ASABE S572).

\*Do not apply when wind speeds exceed 10 mph at the application site.

\*User must maintain a 15 foot (4.6 meter) in-field downwind buffer (in the direction in which the wind is blowing) from the edge of streams and rivers as well as high-tide line for all estuarine/marine environments.

\*Do not apply during temperature inversions.

#### BOOMLESS GROUND APPLICATIONS:

\*Applicators are required to use ~~medium~~ a coarse or coarser droplet size (ASABE S572) for all applications.

\*Do not apply when wind speeds exceed ~~45~~ 10 mph at the application site.

\*Do not apply during temperature inversions.

\*User must maintain a 15 foot (4.6 meter) in-field downwind buffer (in the direction in which the wind is blowing) from the edge of streams and rivers as well as high-tide line for all estuarine/marine environments.

### 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.

#### **BOOM HEIGHT – GROUND BOOM**

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

#### **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.

#### **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.

#### **APPLICATION PROCEDURES**

**Ground Application:** Use conventional ground sprayers equipped with nozzles that provide accurate and uniform application. Be certain that nozzles are uniformly spaced and are the same size. Calibrate sprayer before use and recalibrate at the start of each season and when changing carriers. Unless otherwise specified, use a minimum of 10 gallons of spray mixture per acre for all pre-plant incorporated, preplant surface, pre-emergence and post-emergence applications (with or without oil or surfactant) with ground equipment. Use a pump with capacity to: 1) Maintain 35 to 40 psi at nozzles; 2) Provide sufficient agitation in tank to keep mixture in suspension; and 3) Provide a minimum of 20% bypass at all times.

Use centrifugal pumps which provide propeller shear action for dispersing and mixing this product. The pump should provide a minimum of 10 gallons per minute per 100 gallon tank size circulated through a correctly positioned sparger tube or jets.

Use screens to protect the pump and to prevent nozzles from clogging. Screens placed on the suction side of the pump should be 16 mesh or coarser. Do not place a screen in the recirculation line. Use 50 mesh or coarser screens between the pump and boom and where required, at the nozzles. Check nozzle manufacturer's recommendations. For band applications, calculate the amount to be applied per acre as follows:

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

#### **USE RESTRICTIONS:**

- Applications using mechanically pressurized handguns to Guava, Macadamia nuts and Sweet Corn is prohibited.
- Applications using backpack sprayers to landscape Turf is restricted to spot treatments only.
- **Aerial Application** - Application by air is prohibited.

#### **THIS PRODUCT IN WATER OR LIQUID FERTILIZER APPLICATIONS**

Nitrogen solutions or complete liquid fertilizers may replace all or part of the water as a carrier for pre-emergence and pre-plant applications of this product on Corn and Sorghum. Check the compatibility of this product with liquid fertilizer and/or nitrogen solution as shown below

before use. Do not apply in nitrogen solution or complete liquid fertilizer after Corn or Sorghum emerges, or crop injury may occur.

**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 0.25 teaspoon or 1.2 milliliters of a compatibility agent approved for this use, such as Complex® or Unite® (0.25 tsp. is equivalent to 2 pts. per 100 gals. of spray). Shake or stir gently to mix.
3. To both jars, add the appropriate amount of herbicide(s). If more than one herbicide is used, add them separately with dry herbicides first, flowables next and emulsifiable concentrates last. After each addition, shake or stir gently to thoroughly mix. The appropriate amount of herbicides for this test follows:

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

**Liquid Herbicides:** For each pint to be applied per acre, add 0.5 teaspoon or 2.5 milliliters to each jar.

4. After adding all ingredients, put lids on and tighten and invert each jar ten 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 two jars. If either mixture separates, but can be remixed readily, the mixture can be sprayed as long as good agitation is used. If the mixtures are incompatible, test the following methods of improving compatibility:

- a) Slurry the dry herbicide(s) in water before addition, or
- b) Add one-half of the compatibility agent to the fertilizer and the other one-half of the emulsifiable concentrate or flowable herbicide before addition to the mixture. If incompatibility is still observed, do not use the mixture.

#### **APPLICATION IN WATER PLUS EMULSIFIABLE OIL OR OIL CONCENTRATE**

Adding emulsifiable oil (petroleum-derived, petroleum-derived oil concentrate or single or mixed crop-derived oil concentrate) to postemergence water-based sprays in Corn and Sorghum may improve weed control. However, under certain conditions, the use of either type of oil may seriously injure the crop. To minimize this possibility, observe the following directions.

#### **Use one of the following properly emulsified:**

1. A suitable oil concentrate containing at least 1% but not more than 20% suitable emulsifier or surfactant blend.
2. Petroleum-derived oil containing at least 1% suitable emulsifier.

**Note:** In the event of a compatibility problem when mixing oil with this product and water, a compatibility agent such as Complex or Unite should be used. Any of the above oils contaminated with water or other materials can cause compatibility problems and/or crop injury.

#### **MIXING PROCEDURES (ALL USES)**

1. Be sure sprayer is clean and not contaminated with any other materials or crop injury or sprayer clogging may result.
2. Fill tank one-fourth full with clean water, nitrogen solution or complete liquid fertilizer.
3. Start agitation.
4. Be certain that the agitation system is working properly and creates a rippling or rolling action on the liquid surface.
5. Drop the unopened pak of this product directly into tank.
6. Continue filling tank until 90% full. Increase agitation, if necessary, to maintain surface action.
7. Add emulsifiable oil, oil concentrate or tank-mix herbicide(s) after this product is thoroughly suspended.
8. Finish filling tank.

9. Empty tank as completely as possible before refilling to prevent buildup of oil or emulsifiable concentrate residue. Maintain agitation to avoid separation of materials.
10. If an oil or emulsifiable concentrate film starts to build up in tank, drain it and clean with strong detergent solution or solvent.
11. Clean sprayer thoroughly immediately after use by flushing system with water containing a detergent.

#### DRY BULK FERTILIZER IMPREGNATION

- Impregnation of bulk fertilizer is restricted to commercial facilities. On-farm fertilizer impregnation is prohibited.
- No more than 340 tons of dry bulk fertilizer per worker per day for no more than 30 days per calendar per year for use on Corn, Sorghum and Sod can be impregnated.
- No single facility may impregnate fertilizer for no more than 30 days per calendar year.
- The commercial facility impregnating the dry bulk fertilizer must inform in writing the user (applicator) of the dry bulk fertilizer that:
  - i) Applicators must wear long-sleeved shirt, long pants, shoes and socks.
  - ii) The Restricted Entry Interval (REI) is 12 hours.

#### INSTRUCTIONS FOR INTRODUCING WATERSOLUBLE PACKAGES DIRECTLY INTO SPRAY TANKS

Soluble Packages (WSPs) are designed to dissolve in water. Agitation may be used, if necessary, to help dissolve the WSP. Failure to follow handling and mixing instructions can increase your exposure to the pesticide product in WSPs. WSPs, when used properly, qualify as a closed mixing/loading system under the Agricultural Worker Protection Standard [40CFR 170.607(d)].

#### Handling Instructions:

Follow these steps when handling pesticide products in WSPs.

1. Mix in spray tank only.
2. Handle the WSP in a manner that protects package from breakage and/or unintended release of contents. If package is broken, put on PPE required for cleanup and then continue with mixing instructions.
3. Keep the WSP in outer packaging until just before use.
4. Keep the WSP dry prior to adding to the spray tank.
5. Handle with dry gloves and according to the label instructions for PPE.
6. Keep the WSP intact. Do not cut or puncture the WSP.
7. Reseal the WSP outer packaging to protect any unused WSP(s).

#### Mixing Instructions:

Follow the steps below when mixing this product, including if it is tank-mixed with other pesticide products. If being tank-mixed, the mixing directions 1 through 9 below take precedence over the mixing directions of the other tank-mix products. WSPs may, in some cases, be mixed with other pesticide products so long as the directions for use of all the pesticide product components do not conflict. Do not tank-mix this product with products that prohibit tank-mixing or have conflicting mixing directions.

1. If a basket or strainer is present in the tank hatch, remove prior to adding the WSP to the tank.
2. Fill tank with water approximately one-third to one-half of the desired final volume of spray.
3. Stop adding water and stop any agitation.
4. Place intact/unopened WSP into the tank.
5. Do not spray water from a hose or fill pipe to break or dissolve the WSP.
6. Start mechanical and recirculation agitation from the bottom of tank without using any overhead recirculation, if possible. If overhead recirculation cannot be turned off, close the hatch before starting agitation.
7. Dissolving the WSP may take up to 5 minutes or longer depending on water temperature, water hardness and intensity of agitation.
8. Stop agitation before tank lid is opened.
9. Open the lid to the tank, exercising caution to avoid contact with dusts or spray mix, to verify that the WSP has fully dissolved and the contents have been thoroughly mixed into solution.

10. Do not add other allowed products or complete filling the tank until the bags have fully dissolved and pesticide is thoroughly mixed.
11. Once the WSP has fully dissolved and any other products have been added to the tank, resume filling the tank with water to the desired level, close the tank lid, and resume agitation.
12. Use the spray solution when mixing is complete.
13. Maintain agitation of the diluted pesticide mix during transport and application.
14. It is unlawful to use any registered pesticide, including WSPs, in a manner inconsistent with its label.

**Note:** Products containing boron and/or fertilizers will prevent the water-soluble packet from dissolving. Boron and/or fertilizer products must only be added after packet(s) have completely dissolved.

#### ROTATIONAL CROPS (All Uses)

1. Land treated with this product should not be planted to any crop except Corn or Sorghum until the following year, or injury may occur.
2. If this product is applied after June 10, do not rotate with crops other than Corn or Sorghum the next year, or injury may occur.
3. In the High Plains and Intermountain areas of the west where rainfall is sparse and erratic or where irrigation is required, use only when Corn or Sorghum is to follow Corn or Sorghum or when a crop of untreated Corn or Sorghum is to precede other rotational crops.
4. In western MN and eastern parts of the Dakotas, NE and KS, Corn treated with this product should not be followed with Soybeans if the broadcast rate applied was more than 2.2 pounds per acre (or comparable rate in a band) or injury to Soybeans may occur.
5. Injury may occur to Soybeans planted the year following an application of this product on soils having a calcareous surface layer.
6. Do not plant Sugar beets, Tobacco, Vegetables (including Dry beans), Spring-seeded small grains or Small-seeded legumes and grasses the year following application of this product or injury may occur.

#### THIS PRODUCT APPLIED ALONE—CORN OR GRAIN SORGHUM Pre-plant Surface-Applied, Pre-plant Incorporated Or Preemergence (or Post-emergence at 2.2 lbs. per acre [3 paks per 34 acres] with Oil)

Broadleaf or Grass Weeds Controlled	
Annual morningglory	Mustard
Barnyardgrass* (Watergrass)	Nightshade
Cocklebur**	Pigweed
Giant foxtail**	Purslane
Green foxtail*	Ragweed
Groundcherry	Sicklepod**
Jimsonweed	Velvetleaf* (Buttonweed)
Kochia	Wild oats
Lambsquarters	Witchgrass* ( <i>Panicum capillare</i> )
Large (Hairy) crabgrass**	Yellow foxtail*

\*Partial control only on Medium and Fine textured soils.  
\*\*Partial control only.

#### Post-emergence with Emulsifiable Oil or Oil Concentrate in Water (1.3 pounds per acre [2 paks per 38.5 acres])

Broadleaf Weeds Controlled	
Annual morningglory	Pigweed
Cocklebur	Ragweed
Jimsonweed	Smartweed
Lambsquarters	Velvetleaf* (Buttonweed)
Mustard	Wild buckwheat

\*Partial control only on Medium and Fine textured soils.

Where there are state/local requirements regarding Atrazine use (including lower maximum rates and/or setbacks) which are different from the label, the more restrictive/protective requirements must be followed.

Certain states may have established rate limitations 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 regulations.

## CORN

This product may be applied either before planting, at-planting or after planting as indicated.

### PRE-PLANT SURFACE-APPLIED

**Broadleaf and Grass Control:** Use on *Medium* and *Fine textured soils* with minimum-tillage or no-tillage systems only in CO, IA, IL, IN, KS, KY, MN, MO, MT, ND, NE, SD, WI and WY. Apply the recommended rate of this product shown in **TABLE 1** up to 45 days prior to planting. If unsatisfactory length of weed control results from adverse environmental conditions following early treatment, a follow-up application of an appropriately labeled herbicide may be used. If the follow-up treatment includes Atrazine, do not exceed the labeled rate for Corn indicated in **TABLE 1**. On *Coarse textured soils*, do not apply more than two weeks prior to planting.

If weeds are present at the time of treatment, apply in tank-mix combination with a contact herbicide (for example, Paraquat or Glyphosate). Observe directions for use, precautions and restrictions on the label of the contact herbicide.

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

### PRE-PLANT INCORPORATED

**Broadleaf and Grass Weed Control:** Broadcast in the Spring after plowing at the rate indicated in **TABLE 1**. Application may be made before, during or after final seedbed preparation. Avoid deep incorporation of this product. For best results apply within two weeks prior to planting.

### PRE-EMERGENCE OR AT-PLANTING

**Broadleaf and Grass Weed Control:** Apply during or shortly after planting prior to weed emergence, at the rate indicated in **TABLE 1**.

### POST-EMERGENCE

**Broadleaf and Grass Weed Control:** Apply before weeds exceed 1.5 inches in height and before Corn exceeds 12 inches in height at the rate recommended in **TABLE 1**.

<b>TABLE 1</b>
<b>For Control of Broadleaf and Grass Weeds in Corn* For All Soil Applications Prior to Crop Emergence</b>
<p><b>On Highly Erodible Soils**</b> If conservation tillage is practiced leaving at least 30% of the soil covered with plant residue at-planting, apply a maximum of 2.2 lbs. of this product per acre [1 pak per 11.3 acres] as a single preemergence broadcast spray. If the soil coverage with plant residue is less than 30% at-planting, a maximum of 1.7 lbs. of this product per acre [1 pak per 14.7 acres] may be applied.</p>
<p><b>On Soils Not Highly Erodible**</b> Apply a maximum of 2.2 lbs. of this product per acre [1 pak per 11.3 acres] as a single pre-emergence broadcast spray.</p>
<p>*Broadleaf control (eastern CO, western KS, western NE, NM, OK Panhandle, west TX and eastern WY): On Sand, Loamy sand, Sandy loam, mild to strongly Alkaline soil and all recently leveled soil, apply no more than 1.3 lbs. of this product per acre [1 pak per 19.2 acres], either pre-plant, pre-plant incorporate or pre-emergence. On other soils in these areas, apply rate in <b>TABLE 1</b> for Broadleaf and Grass control. **As defined by the Natural Resource Conservation Service.</p>

### FOR POST-EMERGENCE APPLICATION

If no Atrazine was applied prior to Corn emergence, apply a maximum of 2.2 pounds of this product per acre [1 pak per 11.3 acres] broadcast. If a post-emergence treatment is required following an earlier herbicide application, the total Atrazine applied may not exceed 2.5 pounds active ingredient per acre per calendar year. Where there are state/local requirements regarding Atrazine use (including lower maximum rates and/or greater set-backs) which are different from the label, the more restrictive/protective requirements must be followed. Certain states may have established rate limitations 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.

### POST-EMERGENCE WITH EMULSIFIABLE OIL OR OIL

**CONCENTRATE IN WATER**— Add the following volume of one of the type oils indicated for aerial or ground application unless the oil label specifies otherwise:

Type of Oil	Ground Application Per Acre
Oil Concentrate (Crop or Petroleum-derived)	1 qt.
Petroleum-derived oil	1 gal.

**Note:** Crop-derived or petroleum-derived oil concentrates should contain at least 1%, but not more than 20%, suitable emulsifier or surfactant blend. Petroleum-derived oils should contain at least 1% suitable emulsifier.

**Broadleaf and Grass Control:** For post-emergence control of those weeds listed under "*PRE-PLANT INCORPORATED OR PREEMERGENCE*", broadcast 2.2 pounds of this product per acre [1 pak per 11.3 acres] plus emulsifiable oil or oil concentrate after weed emergence, but before weeds reach 1.5 inches in height and before Corn exceeds 12 inches in height.

**Broadleaf Control:** For post-emergence control of those weeds listed under "*POST-EMERGENCE WITH EMULSIFIABLE OIL OR OIL CONCENTRATE IN WATER*", broadcast 1.3 pounds of this product per acre [1 pak per 19.2 acres] plus emulsifiable oil or oil concentrate before Lambsquarters and Pigweed reach 6 inches in height and before all other weeds reach 4 inches in height. A cultivation may be necessary if all weeds are not controlled or if weeds regrow.

### USE PRECAUTIONS FOR APPLICATIONS OF THIS PRODUCT PLUS EMULSIFIABLE OIL OR OIL CONCENTRATE IN WATER TO CORN

- Do not use oil in sprays of this product when Corn is under stress from prolonged cold, wet weather, poor fertility or other factors or when Corn is wet and succulent from recent rainfall, as crop injury may occur.
- Do not use oils in sprays when treating inbred lines or any breeding stock as injury may occur.
- Adding other insecticides, herbicides, liquid fertilizers or other materials is not recommended, because they may cause compatibility problems or crop injury.
- Store and handle emulsifiable oil and oil concentrate carefully. Oil contaminated with even a small amount of water may not emulsify properly when added to the tank.
- Do not exceed 2.7 pounds of this product [1 pak per 9.2 acres] (2.5 lbs. a.i.) per acre per calendar year.
- Post-emergence application to Corn must be made before Corn exceeds 12 inches in height.

### TANK-MIXTURE WITH THIS PRODUCT FOR CORN

This product may be mixed with these herbicides for control of certain Broadleaf and Grass weeds in Corn:

Alachlor	Metolachlor + Simazine + Glyphosate
Alachlor + Glyphosate	Metolachlor + Simazine + Paraquat
Alachlor + Paraquat	Paraquat
Butylate 6.7E	Propachlor
Metolachlor	Simazine
Metolachlor + Glyphosate	Simazine + Glyphosate
Metolachlor + Paraquat	Simazine + Paraquat

### Metolachlor + Simazine

Use tank-mix directions appearing on the labels of the above herbicides when tank-mixing with this product. Observe all precautions and limitations on labeling of products used in a particular tank-mix. When tank-mixing or sequentially applying Atrazine or products containing Atrazine to Corn, do not exceed an application rate of 2 pounds Atrazine active ingredient for any single application, and the total pounds of Atrazine applied (lbs. a.i./Ac.) must not exceed 2.5

pounds per acre per year.

When tank-mixing or sequentially applying Atrazine or products containing Atrazine to crops other than Corn or Sorghum, the total pounds of Atrazine applied (lbs. a.i./Ac.) must not exceed the specific seasonal rate limits as noted in the use directions.



**THIS PRODUCT PLUS SIMAZINE 4L OR SIMAZINE 90DF**

In addition to the weeds listed under "THIS PRODUCT APPLIED ALONE - CORN OR GRAIN SORGHUM - Pre-plant Surface-Applied, Pre-plant Incorporated or Pre-emergence" this combination also controls Carpetweed, Crabgrass and Fall panicum. Broadcast tank-mix before planting, at-planting or after planting, but before crop and weeds emerge, at rates in **TABLE 2**. Use the 1:1 ratio for control of most weeds. Use the 1:2 ratio for expected heavy infestations of Crabgrass and Fall panicum. Cultivate shallowly if weeds develop.

**PRE-PLANT SURFACE-APPLIED**

Use on *Medium* and *Fine textured soils* with minimum-tillage or no-tillage systems only in CO, IA, IL, IN, KS, KY, MN, MO, MT, ND, NE, SD, WI and WY.

Apply the rate of this product and Simazine shown in **TABLE 2** up to 45 days prior to planting. Refer to the "THIS PRODUCT APPLIED ALONE" section for information if weeds should develop following early treatment. On *Coarse textured soils*, do not apply more than 2 weeks prior to planting. Refer to "THIS PRODUCT APPLIED ALONE - PRE-PLANT SURFACE-APPLIED" section of the Corn label for additional details.

If weeds are present at time of treatment, apply in a tank-mix combination with a contact herbicide (for example, Paraquat or Glyphosate). Observe directions for use, precautions and restrictions on the label of the contact herbicide.

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

**PRE-PLANT INCORPORATED:** Apply to the soil and incorporate in the Spring before, during or after final seedbed preparation. Avoid deep incorporation. For best results, apply within 2 weeks prior to planting.

**PRE-EMERGENCE:** Apply during or shortly after planting, but before crop and weeds emerge.

TABLE 2				
Tank-Mixes with <u>Simazine 4L on Corn</u>				
Soil Texture	Broadcast Rate Per Acre			
	1:1 Ratio*		1:2 Ratio**	
	This Product	Simazine 4L <sup>1</sup>	This Product	Simazine 4L <sup>1</sup>
COARSE: Sand, Loamy sand, Sandy loam	1.1 lbs. [1 pak per 22.7 acres]	2 pts.	0.75 lb. [1 pak per 33.3 acres]	2.6 pts.
MEDIUM: Loam, Silt loam, Silt, Clay loam, Sandy clay loam, Silty clay loam, Sandy clay or Silty clay with low organic matter	1.3 lbs. [1 pak per 19.2 acres]	2.4 pts.	0.9 lb. [1 pak per 27.7 acres]	3.2 pts.
FINE: Loam, Silt loam, Silt, Clay loam, Sandy clay loam, Silty clay loam, Sandy clay or Silty clay with medium to high organic matter and Clay (including dark prairie soils of the Corn Belt)	1.6 lbs. [1 pak per 15.6 acres]	3 pts.	1.1 lbs. [1 pak per 22.7 acres]	3.84 pts.

\*For control of most weeds.  
 \*\*For control of expected heavy infestations of Crabgrass and Fall panicum.  
<sup>1</sup>When using Simazine 90DF, use equivalent rates. 8 pts. (1 gal.) of Simazine 4L equate to 4.4 lbs. of Simazine 90DF.

Refer to "CORN" sections of this label and to Simazine 4L or Simazine 90DF labels for further directions, limitations and precautions.

**THIS PRODUCT PLUS SIMAZINE 4L OR SIMAZINE 90DF PLUS PARAQUAT**

For kill of existing vegetation and residual weed control where Corn will be planted directly into a cover crop, established Sod or in previous crop residues, apply 1.2 to 2.2 pounds of this product [1 pak per 11.3 to 20.8 acres] plus 2 to 4 pints of Simazine 4L or 1.1 to 2.2 pounds of Simazine 90DF plus a suitable amount of Paraquat per sprayed acre prior to, during or after planting, but before crop emergence. Use the lower rates of Atrazine and Simazine on *Light soils* and the higher rates on *Heavy clay soils*. Use 20 to 60 gallons of diluted spray per sprayed acre. Add Surf-Ac® 820 or another nonionic surfactant at the rate of 8 fluid ounces per 100 gallons of diluted spray. Add this product to the spray tank while agitating, then add the Simazine, Paraquat and Surf-Ac 820. Continue agitation during application. Use the higher rate of Paraquat if existing vegetation is 4 to 6 inches tall. This mixture will not control weeds taller than 6 inches. Refer to Paraquat and Simazine labels for further limitations and precautions.

**THIS PRODUCT PLUS SIMAZINE 4L OR 90DF PLUS GLYPHOSATE 480 HERBICIDE**

When applied under the conditions described, this tank-mixture controls many emerged weeds and gives pre-emergence control of many Annual weeds when Corn will be planted directly into a cover crop, established or in previous crop residues.

Apply this tank-mixture in 20 to 60 gallons of water per acre immediately before, during or after planting, but before crop emergence.

As density of stubble, crop residue or weeds increases, spray gallonage and rate should be increased within the ranges to ensure complete coverage.

**Annual Weeds:** Apply Atrazine and Simazine to actively growing Grasses and Broadleaf weeds that are 6 inches tall at the rates given in **TABLE 3** plus 1 quart of Glyphosate 480 Herbicide per acre. If the weeds are over 6 inches tall, increase the rate of Glyphosate 480 Herbicide to 1.5 quarts.

**Perennial Weeds:** At normal application rates in minimum-tillage systems, Perennial weeds may not be at the proper stage of growth for control. See the Glyphosate 480 Herbicide label for the proper stage of growth for Perennial weeds. Apply the Atrazine and Simazine at the rates given in **TABLE 3** plus 2 to 4 quarts of Glyphosate 480 Herbicide per acre. This combination will provide top kill and reduce competition from many emerged Perennial grasses and Broadleaf weeds.

**Note:** Do not use this tank-mix on *Sand* or *Loamy sand soils*. Do not exceed 4 quarts of Glyphosate 480 Herbicide per acre in this tank mixture. Not recommended to control Bermudagrass or Johnsongrass in minimum-tillage systems.

TABLE 3		
This Product Plus Simazine 4L for Mixture with Glyphosate 480 Herbicide		
Soil Texture	Broadcast Rate Per Acre	
	This Product*	Simazine 4L*
COARSE: Sandy loam only	1.1 lbs. [1 pak per 22.7 acres]	2 pts.
MEDIUM: Loam, Silt loam, Silt, Sandy clay loam	1.1 to 1.6 lbs. [1 pak per 15.6 to 22.7 acres]	2 to 2.75 pts.
FINE: Silty clay, Loam, Clay loam, Sandy clay, Silty clay, Clay	1.3 to 1.8 lbs. [1 pak per 13.8 to 19.2 acres]	2.35 to 3.15 pts.

\* Use the higher rate of Atrazine and Simazine in the recommended ranges in soil with greater than 3% organic matter. When using Simazine 90DF, use equivalent rates. 8 pts. (1 gal.) of Simazine 4L equate to 4.4 lbs. of Simazine 90DF.

**FOR ALL SOIL APPLICATIONS PRIOR TO CROP EMERGENCE**

**On Highly Erodible Soils\*:** If conservation tillage is practiced, leaving at least 30% of the soil covered with plant residues at-planting, apply a maximum of 2.2 pounds of this product per acre [1 pak per 11.3 acres] as a single broadcast spray. If the soil coverage with plant

residue is less than 30% at planting, a maximum of 1.7 pounds per acre [1 pak per 14.7 acres] may be applied.

**On Soils Not Highly Erodible\*:** Apply a maximum of 2.2 pounds of this product per acre [1 pak per 11.3 acres] as a single broadcast spray.

\*As defined by the Natural Resource Conservation Service.

#### **USE PRECAUTIONS AND RESTRICTIONS FOR ALL APPLICATIONS TO CORN**

1. To avoid crop injury and illegal residues, do not apply more than 2.7 pounds of this product per acre [1 pak per 9.2 acres] to Corn in any one year.
2. When tank-mixing or sequentially applying Atrazine or products containing Atrazine to Corn, do not exceed an application rate of 2 pounds Atrazine active ingredient for any single application, and the total pounds of Atrazine applied (lbs. a.i./Ac.) must not exceed 2.5 pounds per acre per year.
3. When tank-mixing or sequentially applying Atrazine or products containing Atrazine to crops other than Corn or Sorghum, the total pounds of Atrazine applied (lbs. a.i./Ac.) must not exceed the specific seasonal rate limits as noted in the use directions.
4. For best control of Cocklebur and Velvetleaf, the application rate cannot be less than 2.2 pounds of this product [1 pak per 11.3 acres] (2 lbs. of a.i.) per acre, either alone or in a tank-mix combination.
5. Following harvest of a treated crop, plow (moldboard or disk-plow) and thoroughly till the soil in the Fall or Spring to minimize possible injury to rotational Spring-seeded crops, regardless of the rate used.
6. For Field corn, do not harvest for forage within 60 days of application. For Sweet corn, do not harvest forage within 45 days of application.
7. Applications using mechanically pressurized handguns to Sweet corn is prohibited.

For "POST-EMERGENCE APPLICATIONS PLUS EMULSIFIABLE OIL OR OIL CONCENTRATE", see additional precautions under that section of this label.

#### **SORGHUM AND SORGHUM-SUDAN HYBRIDS (Grain and Forage Types)**

Apply before planting, at-planting or after planting. See "CORN" section for weeds controlled.

##### **PRE-PLANT SURFACE-APPLIED**

**Broadleaf and Grass Control:** Use on *Medium and Fine textured soil* with minimum-tillage or no-tillage systems only in CO, IA, IL, IN, KS, KY, MN, MO, MT, ND, NE, SD, WI and WY. Apply recommended rate of this product shown in **TABLE 4** up to 45 days prior to planting. If an unsatisfactory length of weed control results from adverse environmental conditions following early treatment, a follow-up application of an appropriately labeled herbicide may be used. If the follow-up treatment includes Atrazine, do not exceed the labeled rate for Corn indicated in **TABLE 1**.

Under dry conditions, irrigation after application is recommended to move Atrazine into the soil.

If weeds are present at time of treatment, apply in a tank-mix combination with a contact herbicide (for example, Paraquat or Glyphosate). Observe directions for use, precautions and restrictions on the label of the contact herbicide.

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

##### **PRE-PLANT INCORPORATED**

**Broadleaf and Grass Control:** Broadcast in Spring after plowing at rate in **TABLE 4**. Apply before, during or after final seedbed preparation. If soil is tilled or worked after application, avoid deep incorporation. For best results, apply within 2 weeks prior to planting.

**Pre-Emergence or At-Planting (Broadleaf and Grass control):** Apply during or shortly after planting, but prior to weed or crop emergence at rate shown in **TABLE 4**.

**FOR POST-EMERGENCE APPLICATION (Broadleaf and Grass control):** Apply before weeds exceed 1.5 inches in height and before Sorghum exceeds 12 inches in height. If no Atrazine was applied prior to Sorghum emergence, apply a maximum of 2.2 pounds of this product per acre [1 pak per 11.3 acres] broadcast. If a postemergence treatment is required following an earlier herbicide application, the

total Atrazine applied may not exceed 2.5 pounds per acre per calendar year.

Where there are state/local requirements regarding Atrazine use (including lower maximum rates and/or set-backs) which are different from the label, the more restrictive/protective requirements must be followed. Certain states may have established rate limitations 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.

TABLE 4	
Pre-Plant Surface, Pre-Plant Incorporated and Pre-Emergence or At-Planting Applications*	
For Broadleaf and Grass Weed Control in Sorghum	
<b>On Highly Erodible Soils**</b> If conservation tillage is practiced, leaving at least 30% of the soil covered with plant residues at the time of planting, apply a maximum of 2.2 lbs. of this product per acre [1 pak per 11.3 acres] as a single broadcast spray. If the soil coverage with plant residue is less than 30% at-planting, a maximum of 1.7 lbs. of this product per acre [1 pak per 14.7 acres] may be applied.	
<b>On Soils Not Highly Erodible**</b> Apply a maximum of 2.2 lbs. of this product per acre [1 pak per 11.3 acres] as a single broadcast spray.	
*Do not apply pre-plant, surface or pre-plant incorporated in AL, AR, FL, GA, LA, MS, NC, NM, OK, SC, TN or TX. Do not apply pre-emergence in NM, OK or TX, except in northeast OK and the TX Gulf Coast and Blacklands areas. **As defined by the Natural Resource Conservation Service.	

In case of planting failures, Sorghum or Corn can be replanted. Do not make a second broadcast application or injury may occur. If this product is originally applied in a band and Sorghum or Corn is replanted in the untreated row middles, this product may be applied in a band to the second planting, provided the maximum application rate of 2.7 pounds of this product [1 pak per 9.2 acres] (2.5 lbs. a.i.) per acre per calendar year is not exceeded.

#### PRE-EMERGENCE BROADLEAF WEED CONTROL IN FURROWIRRIGATED BEDDED SORGHUM

**(AZ and CA only):** For pre-emergence control of many Broadleaf weeds, broadcast 0.9 to 1.3 pounds of this product per acre [1 pak per 19.2 to 27.7 acres]. Make application after bed preparation, during or after planting, but before Sorghum and weeds have emerged and before the first furrow irrigation. Several regular irrigations should follow the application, making sure that all soil is thoroughly wet.

#### USE PRECAUTIONS FOR PRE-EMERGENCE APPLICATIONS OF THIS PRODUCT TO FURROW-IRRIGATED BEDDED SORGHUM

**(AZ and CA):** To avoid possible Sorghum injury, do not use on *Sand* or *Loamy sand soils* or on Sorghum planted in the furrow. Additionally, applications made to Sorghum growing on *Alkali soils* or where cuts, fills or erosions have exposed *Calcareous* or *Alkali subsoils*, may result in crop injury. In case of crop failure, do not replant Sorghum for eight months following application. Corn may be planted immediately.

#### POST-EMERGENCE

**Broadleaf and Grass Weed Control:** Apply before weeds exceed 1 inch in height at the rate indicated in **TABLE 5**. Application may be made to Sorghum reaching up to 12 inches in height.

TABLE 5		
Post-Emergence Broadleaf and Grass Control in Sorghum		
Soil Texture	Minimum Height of Sorghum at Treatment	Maximum Broadcast Rate of This Product per Acre
Sand or Loamy sand	DO NOT USE	
Sandy loam	See directions for Broadleaf and Weed control below.	
Silt loam to Sandy clay loams	Completely emerged	2.2 lbs. [1 pak per 11.3 acres]
Olton and Pullman clay soils	At least 6 inches high	2.2 lbs. [1 pak per 11.3 acres]
Silty clay loams and heavier soils	Completely emerged	2.2 lbs. [1 pak per 11.3 acres]

If no Atrazine was applied prior to Sorghum emergence, apply a maximum of 2.2 lbs. of this product per acre [1 pak per 11.3 acres] broadcast. If a post-emergence treatment is required following an earlier herbicide application, the total Atrazine applied may not exceed 2.5 lbs. active ingredient per acre per calendar year.

#### POST-EMERGENCE BROADLEAF WEED CONTROL WITH THIS PRODUCT PLUS EMULSIFIABLE OIL OR OIL CONCENTRATE IN WATER

Broadcast 1.3 pounds of this product per acre [1 pak per 19.2 acres] for control of many Broadleaf weeds. Application should be made before Lambsquarters and Pigweed reach 6 inches in height and before all other weeds reach 4 inches in height. In CO, western KS, NM, OK, TX and desert regions of AZ and CA, apply when Sorghum is 6 to 12 inches in height, but before it reaches boot stage. In all other areas, apply after Sorghum reaches the three-leaf stage, but before it exceeds 12 inches in height. Add emulsifiable oil at the rate of 1 gallon per acre for ground application or add 1 quart per acre of oil concentrate. A cultivation may be necessary if all weeds are not controlled or if regrowth of weeds occurs. For the list of weeds controlled, see "THIS PRODUCT APPLIED ALONE - CORN OR GRAIN SORGHUM - POST-EMERGENCE WITH EMULSIFIABLE OIL OR OIL CONCENTRATE IN WATER."

**USE PRECAUTIONS FOR APPLICATION OF THIS PRODUCT PLUS EMULSIFIABLE OIL OR OIL CONCENTRATE IN WATER TO SORGHUM—** See "USE PRECAUTIONS FOR APPLICATIONS WITH EMULSIFIABLE OIL OR OIL CONCENTRATE IN WATER" in the "CORN" section.

**POST-EMERGENCE BROADLEAF WEED CONTROL WITH THIS PRODUCT PLUS SURFACTANT (CO, Western KS, NM, OK, TX and Desert regions of AZ and CA only):** Broadcast 1.3 pounds of this product [1 pak per 19.2 acres] plus 0.75 to 1.5 pints of surfactant per acre after Sorghum reaches 6 inches in height, but before weeds reach 1.5 inches in height. Apply only on *Sandy loams* and *Finer textured soils*.

#### USE PRECAUTIONS FOR AND RESTRICTIONS FOR ALL APPLICATIONS TO SORGHUM

1. Heavy rains immediately following application tend to cause excessive concentrations of herbicide in seed furrow, resulting in possible crop injury. Applications to furrow-planted Sorghum should not be made until furrows are leveled (plow-in). Deep planter marks or seed furrows should be leveled before application.
2. Application made to Sorghum growing under stress caused by minor element deficiency or to Sorghum growing on highly *Calcareous soils* may result in crop injury.
3. Following harvest, plow (moldboard or disk-plow) and thoroughly till the soil in the Fall or Spring to minimize possible injury to Spring-seeded rotational crops, regardless of rate used.
4. Injury may occur if both this herbicide, pre-plant surface, preplant incorporated or pre-emergence and an at-planting systemic insecticide applied in-furrow are used.
5. Do not apply more than 2.7 pounds of this product [6 paks per 53.5 acres] (2.5 lbs. a.i.) per acre per calendar year.
6. Do not apply Atrazine and Propazine containing products to the same Sorghum acre.
7. For all soil applications prior to crop emergence (except for preemergence use on bedded Sorghum in AZ and CA), do not apply to *Coarse textured soils*, i.e., *Sand*, *Loamy sand*, *Sandy loam* or to *Medium* and *Fine-textured soils* having less than 1% organic matter or injury may occur.
8. For post-emergence applications, do not apply to *Sand* or *Loamy sand* or injury may occur.
9. Do not harvest for forage within 60 days of a pre-emergence application and 45 days of a post-emergent application.

For applications to furrow-irrigated bedded Sorghum in AZ and CA and for post-emergence applications plus emulsifiable oil, see additional precautions under these sections of this label.

#### TANK-MIXTURES FOR GRAIN SORGHUM THIS PRODUCT + METOLACHLOR on Grain Sorghum

**(Cyometrinil-Treated Seed):** This product + Metolachlor tank mixture provides control of weeds listed on the Metolachlor label and this label. Follow use instructions, precautions and limitations on the Metolachlor label.

When tank-mixing or sequentially applying Atrazine or products containing Atrazine to Sorghum, do not exceed an application rate of 2 pounds active ingredient and the total pounds of Atrazine applied (lbs. a.i./Ac.) must not exceed 2.5 pounds per acre per year.

When tank-mixing or sequentially applying Atrazine or products containing Atrazine to crops other than Corn or Sorghum, the total



pounds of Atrazine applied (lbs. a.i./Ac.) must not exceed the specific seasonal rate limits as noted in the use directions.

### WINTER WEED CONTROL IN TEXAS

For post-emergence control of Winter weeds only, such as Annual thistle, Henbit and Seedling dock on Fall-bedded land in the Gulf Coast and Blacklands of TX, apply 0.9 to 1.1 pounds of this product per acre [1 pak per 22.7 to 27.7 acres] post-emergence to the weeds in November or December to land that will be planted to Corn, Grain sorghum or Forage sorghum the following Spring. For best results add a suitable surfactant such as Surf-Ac 820 at the rate of 0.5% of the spray volume, an emulsifiable oil at the rate of 1% of the spray volume or an oil concentrate at the rate of 1 quart per acre. Normal weed control programs may be used in the following: Corn, Grain sorghum or Forage sorghum crops.

#### Use Precaution and Restriction:

Do not plant any crops except Corn, Forage sorghum or Grain sorghum the Spring following this treatment or illegal residues may result.

### CHEMICAL FALLOW—THIS PRODUCT ALONE

Users must only apply to fallow land in the following states according to the prescribed rotation pattern in the table below:

Fallow Rotation Pattern	Fallow Use Authorized in these States only
Wheat-Corn-Fallow	CO, KS, ND, NE, SD, & WY
Wheat-Fallow-Wheat	CO, KS, ND, NE, SD, & WY
Wheat-Sorghum-Fallow	AR, CO, GA, IL, KS, LA, MS, MO, NE, NM, NC, OK, SD, & TX

**WHEAT-SORGHUM-FALLOW (AR, CO, GA, IL, KS, LA, MS, MO, NE, NM, NC, OK, SD and TX):** This treatment controls annual Broadleaf and Grass weeds following Wheat harvest and in the following Sorghum crop when grown under minimum-tillage. Apply 2.5 pounds of this product per acre [1 pak per 10 acres] to Wheat stubble immediately following Wheat harvest. If weeds are present, remove them with a sweep plow or other suitable implement after application or use an approved contact herbicide before or after application of this product. Plant Sorghum into Wheat stubble the following Spring with minimum disturbance of the soil. Use a surface planter or a planter leaving a shallow furrow. If weeds are present at planting, remove them with a sweep plow or other suitable implement before planting. For soils in ND and SD with a pH of 7.5 or greater, do not apply more than 1.6 pounds of this product (1.5 lbs. a.i.) per acre for any application. For soils in ND and SD with a pH of less than 7.5, do not apply more than 2.2 pounds of this product (2 lbs. a.i.) per acre for any application. For all other locations, do not apply more than 2.5 pounds of this product (2.25 lbs. a.i.) per acre for any application.

Do not apply more than one application per cycle.

For the list of weeds controlled, see *"THIS PRODUCT APPLIED ALONE - CORN OR GRAIN SORGHUM - Pre-plant Surface-Applied, Pre-plant Incorporated or Pre-emergence"*.

#### Use Precautions and Restrictions:

1. Use only on *Silt loam* or *Fine-textured soil*, or crop injury may result.
2. Wheat-Sorghum-Fallow cropping sequence must be followed.
3. Do not apply following Sorghum harvest.
4. Only one application is allowed per cycle for all chemical fallow applications.
5. To avoid illegal residues, do not graze or feed forage from treated areas to livestock.
6. To avoid illegal residues and crop injury, do not plant any crop other than those on this label within 18 months following treatment.

**WHEAT-CORN-FALLOW (CO, KS, ND, NE, SD, and WY):** This product controls Cheatgrass (Downy brome, Chess), Kochia, Mustard, Pigweed, Russian thistle, Wild lettuce, Wild sunflower and Volunteer wheat during period after Wheat harvest. Weed control may extend into following Corn crop grown under minimum-tillage. On soils in ND and SD with pH greater than 7.5, do not exceed 1.6 pounds of this product [1 pak per 15.6 acres] (1.5 lbs. a.i.) per acre for any application. For soils with a pH less than 7.5 in ND and SD, apply 1.1 to 2.2 pounds of this product [1 pak per 11.3 to 22.7 acres] (1 to 2 lbs. a.i.) per acre. Use the higher rate on *Fine textured soils* and where

heavy weed infestations are expected; use the lower rate on *Coarse textured soils* and where light weed infestations are expected. Do not apply more than 2.2 pounds of this product [1 pak per 11.3 acres] (2 lbs. a.i.) per acre for any application.

For all other locations, do not apply more than 2.5 pounds of this product [1 pak per 10 acres] (2.25 lbs. a.i.) per acre for any application. In the event grasses are present the following Spring, use a Grass herbicide registered for use on Corn.

Follow directions for use and *"USE PRECAUTIONS AND RESTRICTIONS"* in the *"WHEAT-SORGHUM-FALLOW"* section above, substituting Corn for references to Sorghum.

Do not apply more than one application per cycle.

**WHEAT-FALLOW-WHEAT (CO, KS, MT, ND, NE, SD and WY):** For pre-emergence and control of Cheatgrass (Downy brome, Chess), Common lambsquarters, Field pennycress, Kochia, Mustard, Russian thistle, Wild lettuce and suppression of Volunteer wheat during fallow period of a Wheat-Fallow-Wheat rotation, broadcast 0.5 to 1.1 pounds of this product per acre [1 pak per 22.7 to 50 acres] on all soils except those listed under *"USE PRECAUTIONS AND RESTRICTIONS"*. For control of Pigweed and Wild sunflower, use the higher rate. Apply to stubble ground. Treat only once during same fallow period. For soils in ND and SD with a pH of 7.5 or greater, do not apply more than 1.6 pounds of this product (1.5 lbs. a.i.) per acre for any application. For soils in ND and SD with a pH of less than 7.5, do not apply more than 2.2 pounds of this product (2 lbs. a.i.) per acre for any application. For all other locations, do not apply more than 2.5 pounds of this product (2.25 lbs. a.i.) per acre for any application. Do not apply more than one application per cycle.

### TANK-MIXTURES FOR CHEMICAL FALLOW

#### WHEAT-SORGHUM-FALLOW OR WHEAT-CORN-FALLOW (KS, NE)

**THIS PRODUCT PLUS PARAQUAT:** If weeds are present at application, a tank-mix with Paraquat may be used. Broadcast 2.5 pounds of this product [1 pak per 10 acres] plus a suitable amount of Paraquat in 20 to 60 gallons of water per acre by ground equipment. Add 0.5 to 1 pint of a non-ionic surfactant, such as Surf-Ac 820, per 100 gallons of spray mixture. Add this product to spray tank first and thoroughly mix with water. Then add Paraquat followed by surfactant. Use the higher rate of Paraquat if weeds are 4 to 6 inches tall. This mixture will not control weeds taller than 6 inches. Apply to stubble ground. Do not apply more than 2.5 pounds of this product (2.25 lbs. a.i.) per acre per any application.

Do not apply more than one application per cycle.

Refer to Paraquat label for further directions, precautions and limitations.

#### WHEAT-FALLOW-WHEAT (CO, KS, ND, NE, SD AND WY) THIS

**PRODUCT PLUS PARAQUAT:** If weeds are present at application, a tank-mix with Paraquat may be used. Broadcast 0.5 to 1.1 pounds of this product [1 pak per 22.7 to 50 acres] plus a suitable amount of Paraquat in 20 to 60 gallons of water per acre by ground equipment. Add 0.5 to 1 pint of a non-ionic surfactant, such as Surf-Ac 820 per 100 gallons of spray mixture. Add this product to spray tank first and thoroughly mix with water. Then add Paraquat followed by surfactant. Use the higher rate of Paraquat specified on the label if weeds are 4 to 6 inches tall. This mixture will not control weeds taller than 6 inches. Apply to stubble ground.

For soils in ND and SD with a pH of 7.5 or greater, do not apply more than 1.6 pounds of this product (1.5 lbs. a.i.) per acre for any application. For soils in ND and SD with a pH of less than 7.5, do not apply more than 2.2 pounds of this product (2 lbs. a.i.) per acre for any application. For all other locations, do not apply more than 2.5 pounds of this product (2.25 lbs. a.i.) per acre for any application.

Do not apply more than one application per cycle.

Refer to the Paraquat label for further directions, precautions and limitations.

If weeds are present at application and this product is used alone, use either an approved contact herbicide before or after treatment or tillage after treatment.

Use tillage to control weeds which escape during fallow period. Till before planting. For this product applied alone or in tank-mixture with Paraquat, plant at least 2 inches deep and 12 months or more after application.



### Use Precautions and Restrictions:

1. Only one application is allowed per cycle for all chemical fallow applications.
2. Do not use on *Sandy soil*.
3. Do not treat eroded hillsides, caliche and rocky outcroppings or exposed *Calcareous subsoil*.
4. Do not treat soils of the Rosebud and Canyon Series in western NE and adjoining counties in CO and WY.
5. Do not treat soils with calcareous surface layers.
6. Avoid spray overlap.
7. Do not graze treated areas within 6 months after application or illegal residues may result.

### SUGARCANE

For control of many Broadleaf and Grass weeds, such as Amaranths, Crabgrass, Fireweed, Flora's paintbrush, Foxtail, Junglerice and Wiregrass, broadcast 2.2 to 4.4 pounds of this product per acre [1 pak per 5.6 to 11.3 acres] at time of planting or ratooning, but before the Sugarcane emerges.

Broadcast or band by ground equipment in a minimum of 20 gallons per acre, unless indicated otherwise. One additional application may be made over the cane as it emerges and two additional applications may be made interline after emergence, as a directed spray. Repeat treatments, where needed, may be applied broadcast, band or interline as suggested with the final application being prior to "close-in". Do not exceed the rate of herbicide suggested for any one crop of Sugarcane.

**Note:** Where high rates of this product are used, apply in a minimum of 1 gallon of water for each pound of this product applied per acre.

### USE PRECAUTIONS AND RESTRICTIONS FOR ALL STATES AND USES

1. Do not apply this product after "close-in".
2. Do not apply more than 4.4 pounds of this product [1 pak per 5.6 acres] (4 lbs. a.i.) per acre for any application. Do not apply more than 11.1 pounds of this product [1 pak per 2.2 acres] (10 lbs. a.i.) per acre per year.
3. Injury to Sugarcane may occur when under moisture stress, when soil is of low absorptive capacity or when land is first cropped to Sugarcane.

For specific weed problems, the following may be used. Other rate and application timings may be used for other weed spectrums and cultural practices, provided they are within the above "GENERAL USE DIRECTIONS FOR ALL STATES" and are consistent with the "USE PRECAUTIONS FOR ALL STATES AND USES".

### FLORIDA

For control of emerged Pellitory weeds (Artillery weed), apply 0.4 to 0.6 pound of this product per acre [1 pak per 41.6 to 62.5 acres] in 40 gallons of water per acre as a directed spray by ground equipment prior to "close-in". Add 2 quarts of surfactant for each 50 gallons of spray and be sure Weed foliage is thoroughly covered. For control of Alexandergrass, Large crabgrass, Pellitory weed (Artillery weed) and Spiny amaranth, use one of the following methods at-planting or ratooning:

1. Apply 4.4 pounds of this product per acre [1 pak per 5.6 acres] pre-emergence. Follow with one or two applications, as needed, post-emergence to Sugarcane and weeds at 2.2 pounds of this product per acre [1 pak per 11.3 acres]. Treat before weeds exceed 1.5 inches in height.
2. Apply 1 to 3 times, as needed, at 2.2 pounds of this product per acre [1 pak per 11.3 acres] post-emergence to Sugarcane and weeds. Treat before weeds exceed 1.5 inches in height. The total pounds of active ingredient applied by pre-emergent PLUS post-emergent applications cannot exceed 11.1 pounds of this product [1 pak per 2.2 acres] (10 lbs. a.i.) per acre per crop.

### LOUISIANA

For control of Annual weeds during the Summer fallow period, apply 2.2 pounds of this product per acre [1 pak per 11.3 acres] to weedfree beds immediately after bed formation. Follow normal weed control after planting.

**Additional Precautions and Use Restrictions — To Avoid Crop Injury in LA:**

1. Do not apply more than 11.1 pounds per acre [1 pak per 2.2 acres] to any one crop of Sugarcane.

2. If making 2.2 pounds of this product per acre [1 pak per 11.3 acres] application during Summer fallow period, do not exceed 8.8 pounds of this product per acre [1 pak per 2.8 acres] during the remainder of the growing season.

### TEXAS

Use this product for control of Barnyardgrass, Pigweed, Purslane and Sunflower in plant or ratoon Sugarcane.

Apply 4.4 pounds per acre of this product [1 pak per 5.6 acres] preemergence. Follow with one or two applications, as needed, at 3.3 pounds of this product per acre [1 pak per 7.5 acres] post-emergence to Sugarcane and weeds. For best results, when weeds are emerged, add a non-ionic surfactant such as Surf-Ac 820 at a concentration of 2 quarts per 100 gallons to the spray and apply before weeds exceed 1.5 inches in height.

### ST. AUGUSTINE GRASS, CENTIPEDEGRASS AND DORMANT BERMUDAGRASS

This product controls Annual bluegrass, Florida betony, Spurweed and many other weeds in Home lawn, Ornamental and Recreational turf. This product may be applied with any pump-up or compressed air type sprayer or with a hose-end type sprayer. Use of backpack sprayers to Landscape turf is restricted to spot treatments only. This product will control both emerged weeds and weeds from seeds. Rain or watering within 2 to 3 days of application may decrease the effectiveness on emerged weeds. However, for control of weeds from seeds, rainfall or watering is necessary within 7 to 10 days after treatment.

**Note:** Do not apply within the active root zone of Vegetables or desirable Ornamental plants such as Azaleas, Boxwoods, Camellias, etc. However, treatments with this product should not normally cause injury to medium or large shrubs or trees in the landscape. Do not plant any crop (Flower or Vegetable gardens) to treated areas for 18 months or injury may result.

### WEEDS CONTROLLED OR SUPPRESSED

Annual bluegrass (*Poa annua*), Chickweed (Common and Mouseear), Crabgrass, Cransbill, Cudweed, Dichondra, Florida betony, Henbit, Knotweed, Lespedeza, Moneywort, Mustard, Narrowleaf vetch, Parsley-piert, Sandspur, Smutgrass, Spurge, Spurweed, Swinecrest, Woodsorrel and various annual Clovers.

### TIMING OF APPLICATION

The timing of applications to achieve maximum control may vary quite a bit with different weed species. The following application times are suggested for certain problem weeds.

**Spurweed:** Best control of Spurweed can be obtained by applying this product when Spurweed has emerged (December and January).

**Florida betony:** Apply this product when this weed emerges in the Fall.

**Dichondra, Moneywort:** Applications for Florida betony or Spurweed generally will give control or suppression of the other weeds listed. This product will give the best control when applied to young, tender weeds or just prior to weed emergence. Do not apply to growing Bermudagrass.

### ST. AUGUSTINE AND CENTIPEDEGRASSES

This product may be applied to established Centipedegrasses and St. Augustine grasses during both the dormant and the growing season. Best results are usually obtained in the early Spring or dormant periods when weeds are small or have not emerged. Follow rate in the "RATE OF APPLICATION" table below.

### DORMANT BERMUDAGRASS

This product may be applied to Bermudagrass during the dormant season only. Applications to Bermudagrass during the growing season will cause injury. Follow rate in the "RATE OF APPLICATION" table below.

### RATE OF APPLICATION

Determine the total area to be sprayed and base rate of application on the chart below. Avoid overlapping spray pattern while treating.

Area to be Treated	Amount of THIS PRODUCT
22.7 acres	25 lbs. [1 pak]

### USE RESTRICTIONS

- 1) Do not cut for hay or graze treated areas within 3 months following an application.

- 2) Do not apply more than 1.1 pounds of this product (1 lb. a.i.) per acre for any application. Do not apply more than 2.2 pounds of this product (2 lb. a.i.) per acre per year.
- 3) Maximum number of application per acre per year is two.
- 4) Do not seed or transplant species which are sensitive to this product within 18 months after application.
- 5) Do not use backpack spray application to Landscape turf except for spot treatments only.

**TURFGRASS FOR FAIRWAYS, LAWNS, SOD PRODUCTION\* AND RESIDENTIAL SITES\*\***

\*For Bermudagrass sod production only. For Centipedegrass, St. Augustinegrass and Zoysiagrass sod production, refer to the section "TURFGRASSES FOR SOD PRODUCTION" below. \*\*Residential sites (including Daycare facilities, Home, Parks, Playgrounds, Recreational areas, Schools and Sports fields).

**Bermudagrass, Centipedegrass, St. Augustine grass and Zoysiagrass:** Apply this product after October 1 before emergence of Winter annual weeds for control of Annual bluegrass, Burclover, Carpet burweed, Chickweed, Corn speedwell, Henbit, Hop clover and Spurweed. This product will control Annual bluegrass even if it is emerged at time of treatment. For control of Summer annual weeds listed in the pre-emergence portion of the "THIS PRODUCT APPLIED ALONE - CORN OR GRAIN SORGHUM - Pre-plant Surface-Applied, or Pre-plant Incorporated, or Pre-emergence" section of this label, also apply this product in late Winter before the weeds emerge. Apply in a minimum of 15 gallons of water per acre or 1 gallon per 1,000 square feet (0.4 fl. oz. per 1,000 sq. ft.).

Use 1.1 pounds of this product per acre [1 pak per 11.3 acres] against the other weeds named above.

Do not exceed 1.1 pounds of this product per acre [1 pak per 22.7 acres] per treatment on newly sprigged Turfgrass or on hybrid Bermudagrass such as Tiflawn, Tifway and Ormond.

For continued Summer annual weed control, apply another 1.1 pounds of this product per acre [1 pak per 22.7 acres] at least 30 days after the previous application, but not after April 15. However, do not make more than 2 applications of this product per year. On newly sprigged Turfgrass and hybrid Bermudagrass, temporary slowing of growth and yellowing may occur following application.

**USE PRECAUTIONS AND RESTRICTIONS**

1. For Turfgrass at Residential sites including Homes, Day care facilities, Schools, Playgrounds, Parks, Recreational areas and Sports fields, do not apply more than 1.1 pounds of this product [1 pak per 22.7 acres] (1 lb. a.i.) per acre for any application. Do not apply more than 2.2 pounds of this product [1 pak per 11.3 acres] (2 lbs. a.i.) per acre per year. Maximum number of application per acre per year is two.
2. Do not use backpack spray application to landscape Turf except for spot treatments only.
3. Do not graze or feed Turf clippings to animals or illegal residues may result.

**To avoid Turf injury:** 1) Use only on Turfgrass reasonably free of infestations of insects, nematodes and diseases. 2) Do not use on golf greens. 3) Do not use north of NC (except may be used in VA Coastal Plains) or west of the high rainfall areas of eastern OK and eastern TX. 4) Do not use on *Muck* or *Alkaline soils*. 5) Do not apply over the rooting area of Trees or Ornaments not listed on this label. 6) Do not overseed with desirable Turfgrass within 4 months before or 6 months after treatment. 7) Do not apply this product to newly seeded Bermudagrass until it has over-wintered and has a well-developed rhizome system. Do not exceed 2.2 pounds of this product per acre [1 pak per 11.3 acres] within 12 months of seeding Bermudagrass.

**TURFGRASSES FOR SOD**

**St. Augustine grass, Centipedegrass and Zoysiagrass:** Broadcast 2.2 to 4.4 pounds of this product per acre according to soil texture to control those weeds listed under "THIS PRODUCT APPLIED ALONE - CORN OR GRAIN SORGHUM - Pre-plant Surface-Applied, Preplant Incorporated or Pre-emergence".

Muck or Peat	4.4 lbs. of this product [1 pak per 5.6 acres]	OLD BEDS: Within 2 days after lifting sod. NEW BEDS: 3 to 4 days after sprigging or plugging.
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Sandy Soil	2.2 lbs. of this product [1 pak per 11.3 acres]	OLD BEDS: Within 2 days after lifting sod. NEW BEDS: 7 to 10 days after sprigging or plugging.
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If weeds regrow, apply an additional 2.2 pounds of this product per acre [1 pak per 11.3 acres] on *Muck* or *Peat* or 1.1 pounds of this product per acre [1 pak per 22.7 acres] on *Sandy soil*.

**USE PRECAUTIONS AND RESTRICTIONS**

1. For *Muck* or *Peat soils*, do not apply more than 4.4 pounds of this product [1 pak per 5.6 acres] (4 lbs. a.i.) per acre for any application. Do not apply more than 6.6 pounds of this product [1 pak per 3.7 acres] (6 lbs. a.i.) per acre per year. For *Sandy soil*, do not apply more than 2.2 pounds of this product [1 pak per 11.3 acres] (2 lbs. a.i.) per acre for any application. Do not apply more than 3.3 pounds of this product [1 pak per 7.5 acres] (3 lbs. a.i.) per acre per year.
2. Do not apply within 30 days prior to cutting or lifting.
3. Do not apply in combination with surfactants or other spray additives.
4. Use only on Turfgrass reasonably free of infestations of insects, nematodes and diseases.
5. On newly-sprigged Turfgrass, temporary slowing of growth may follow application.

**MACADAMIA NUTS**

For pre-emergence control of many Broadleaf and Grass weeds, including Crabgrass, Fireweed, Flora's paintbrush, Foxtails, Spanishneedles and Wiregrass, broadcast 2.2 to 4.4 pounds of this product per acre [1 pak per 5.6 to 11.3 acres] before harvest and before weeds emerge. Repeat as necessary but do not exceed 8.8 pounds of this product [1 pak per 2.8 acres] (8 lbs. a.i.) per acre per year.

**USE RESTRICTIONS**

1. Application using mechanically pressurized handguns to Macadamia nuts is prohibited.
2. Do not apply more than 4.4 pounds of this product [1 pak per 5.6 acres] (4 lbs. a.i.) per acre for any application.
3. Do not apply more than 8.8 pounds of this product [1 pak per 2.8 acres] (8 lbs. a.i.) per acre per year.
4. Do not spray when Nuts are on the ground during harvest period.
5. Do not apply by air.

**GUAVA**

Use only on established plantings which are at least 18 months old. Apply as a directed spray at 2.2 to 4.4 pounds of this product per acre [1 pak per 5.6 to 11.3 acres] of this product in 20 to 50 gallons of spray mix pre-emergence or early post-emergence to weeds. When applying post-emergence, the use of a surfactant and greater spray volume (80 to 100 gallons of spray mix per acre) may enhance weed control.

This product controls many annual Broadleaf and Grass weeds, including Fireweed, Purslane, Scarlet pimpernel, Sowthistle and Spanishneedles.

**USE RESTRICTIONS**

1. Application using mechanically pressurized handguns to Guava is prohibited.
2. Do not allow spray to contact foliage or fruit.
3. Do not apply more frequently than at 4 month intervals.
4. Do not apply more than 4.4 pounds of this product [1 pak per 5.6 acres] (4 lbs. a.i.) per acre for any application.
5. Do not apply more than 8.8 pounds of this product [1 pak per 2.8 acres] (8 lbs. a.i.) per year.

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal. **PESTICIDE STORAGE:** Storage should be under lock and key and secure from access by unauthorized persons and children. Store in a cool, dry area away from any heat or ignition source. Do not stack over 2 pallets high. Move bags carefully so as not to tear or puncture. Do not move containers from one area to another unless they are securely sealed. Keep container tightly sealed when not in use. Do not allow bags to become wet or store in a damp, humid area. Keep

away from any puncture source. Avoid storage near water supplies, food, feed and fertilizer to avoid contamination. Store in original container only. If the contents are leaking or material is spilled, follow these steps:

1. Collect and place in suitable containers for disposal.
2. Wash area with soap and water to remove remaining pesticide.
3. Follow washing with clean water rinse.
4. Do not allow runoff to enter sewer or contaminate water supplies.
5. Dispose of waste as indicated below.

**WATER-SOLUBLE PAKS:** Carefully open outer bag. Never open the water-soluble pouch.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

### **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 directed and other influencing factors in the use of this product are beyond the control of the Seller. Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith.

To the extent required by 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.

SURF-AC and the DREXEL logo are registered trademarks of Drexel Chemical Company. All other brand names, product names, or trademarks belong to their respective holders.

# RESTRICTED USE PESTICIDE

(Ground and Surface Water Concerns)

For retail sale to and use only by certified applicators or persons under their direct supervision and only for those uses covered by the certified applicator's certification.  
 This product is a Restricted Use Herbicide due to ground and surface water concerns. Users must read and follow all precautionary statements and instructions for use in order to minimize potential for Atrazine to reach ground and surface water.

**ACCEPTED**

11/10/2021

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 19713-499

ATRAZINE GROUP 5 HERBICIDE



## Atrazine 90DP

Herbicide

For season-long weed control in Chemical fallow, Conifers, Corn, Fallowland, Guava, Lawns, Macadamia nuts, Sorghum, Sugarcane and Turf.

**ACTIVE INGREDIENT:**

Atrazine ..... 88.4%  
 Related compounds ..... 1.6%

**OTHER INGREDIENTS:** ..... 10.0%

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

**KEEP OUT OF REACH OF CHILDREN**

## CAUTION

[See FIRST AID Below]

[See Side (Back) Panel for FIRST AID];

[See Page \_\_\_ for FIRST AID]

[See Container Labeling for (FIRST AID and Complete Directions for Use]

[See (Attached) Booklet (Container Labeling) for Complete Directions for Use]

EPA Reg. No. 19713-499 . EPA Est. No. 19713-XX-X

Net Contents: \_\_\_\_\_

FIRST AID
<p><b>IF SWALLOWED:</b></p> <ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious or convulsing person.</li> </ul>
<p><b>IF ON SKIN OR CLOTHING:</b></p> <ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p><b>IF IN EYES:</b></p> <ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>

**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.
- Call a poison control center or doctor for further 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.

**NOTE TO PHYSICIAN:** There is no specific antidote for Atrazine. If this product is ingested, induce emesis or lavage stomach. The use of an aqueous slurry of activated charcoal may be considered.

**PRECAUTIONARY STATEMENTS**

**Hazards to Humans and Domestic Animals**

**CAUTION:** Harmful if swallowed. Avoid breathing of dust. Do not take internally. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

**Mixers, loaders, cleaners of equipment or spills, and other handlers exposed to the concentrate must wear: Coveralls over long-sleeved shirt and long pants, chemical-resistant gloves made of barrier laminate, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, or viton ≥ 14 mils.**

**Applicators using spray equipment mounted on their backs must wear:** Coveralls over long-sleeved shirt and long pants, chemical-resistant gloves made of barrier laminate, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, or viton ≥ 14 mils and chemical-resistant footwear plus socks, chemical-resistant apron, and a minimum of a NIOSH approved particulate filtering facepiece respirator with any N\*, R or P filter; OR a NIOSH-approved elastometric particulate respirator with any N\*, R or P filter; OR a NIOSH-approved powered air purifying respirator with HE filters.

**Applicators using spray equipment mounted on their backs must wear:** Coveralls over long-sleeved shirt and long pants, chemical-resistant gloves made of barrier laminate, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, or viton ≥ 14 mils and chemical-resistant footwear plus socks.

**All other applicators and all other handlers exposed to the dilute must wear:** Long-sleeved shirt and long pants, chemical resistant gloves made of barrier laminate, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, or viton ≥ 14 mils and shoes plus socks.

**Aerial application is prohibited.**

See "ENGINEERING CONTROLS" for additional requirements. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

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



When applicators use enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(5), the handler PPE requirements may be reduced or modified as specified in the WPS.



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Manufactured By:

**Drexel Chemical Company**

P.O. **SINCE 1972** Box 13327,  
Memphis, TN

499DSP-1020\* Pending

### USER SAFETY RECOMMENDATIONS

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

### ENVIRONMENTAL HAZARDS

Atrazine can travel (seep or leach) through soil and can enter groundwater which may be used as drinking water. Atrazine has been found in groundwater. Users are advised not to apply Atrazine to *Sand* and *Loamy sand soils* where the water table (groundwater) is close to the surface and where these soils are very permeable, i.e., well-drained. Your local agricultural agencies can provide further information on the type of soil in your area and the location of groundwater.

This product must not be mixed or loaded within 50 feet of intermittent streams and rivers, natural or impounded lakes and reservoirs. This product must not be applied within 66 feet of the points where field surface water runoff enters perennial or intermittent streams and rivers or within 200 feet of natural or impounded lakes and reservoirs. If this product is applied to highly erodible land, the 66 foot buffer or setback from runoff entry points must be planted to crop or seeded with Grass or other suitable crop.

This product must 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 washwater, and rainwater 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 sites. Additional state imposed requirements regarding well-head setbacks and operational area containment must be observed.

This pesticide is toxic to aquatic invertebrates. 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 apply when weather conditions favor drift from treated areas. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater.

### TILE-OUTLETED TERRACED FIELDS CONTAINING STANDPIPES

One of the following restrictions must be used in applying Atrazine to tile-outletted terraced fields containing standpipes.

1. Do not apply this product within 66 feet of standpipes in tile-outletted terraced fields.
2. Apply this product to the entire tile-outletted terraced field and immediately incorporate it to a depth of 2 to 3 inches in the entire field.
3. Apply this product to the entire tile-outletted terraced field under a no-till practice only when high crop residue management practices are used. High crop residue management practice is described as a crop management practice where little or no crop residue is removed from the field during and after crop harvest.

### 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 nontarget organisms by following label directions intended to minimize drift.

### DIRECTIONS FOR USE

#### RESTRICTED USE PESTICIDE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. ANY USE OF THIS PRODUCT IN AN AREA WHERE USE IS PROHIBITED IS A VIOLATION OF FEDERAL LAW.

#### ENDANGERED SPECIES

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 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.

#### USE SITE RESTRICTION

Not for use in the state of Hawaii or Alaska, or in the U.S. territories (Puerto Rico, Guam, American Samoa, the U.S. Virgin Islands, and the North Mariana Islands).

Use on Roadsides; Conservation Reserve Program (CRP) land; Conifers, including Christmas Tree plantings; Timber; Forestry; and, Miscanthus and other Perennial Bioenergy crops is prohibited.

Before using this product, you must consult the Atrazine Watershed Information Center (AWIC) to determine whether the use of this product is prohibited in your watershed. AWIC can be accessed through [www.Atrazine-watershed.info](http://www.Atrazine-watershed.info), or 1-866-365-3014. If use of this product is prohibited in your watershed, you may return this product to your point of purchase or contact Drexel Chemical Company for a refund.

Do not apply this product through any type of irrigation system.

#### AERIAL APPLICATION IS PROHIBITED.

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

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard (WPS), 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, greenhouses and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about Personal Protective Equipment (PPE) and Restricted Entry Interval (REI). The requirements in this box only apply to uses of this product that are covered by the WPS.

Do not enter or allow worker entry into treated areas during the REI of 12 hours. **Exception:** If the product is soil-injected or

soil incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the WPS and that involves contact with anything that has been treated, such as plants, soil or water is: Coveralls, chemical-resistant gloves made of barrier laminate, nitrile rubber  $\geq$  14 mils, neoprene rubber  $\geq$  14 mils, or viton  $\geq$  14 mils, and shoes plus socks.

### NON-AGRICULTURAL USE REQUIREMENTS

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

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

### GENERAL INFORMATION

ATRAZINE 90DP Herbicide will control most annual Broadleaf and Grass weeds in Corn, Sorghum, Sugarcane and certain other crops as specified on this label. This product may be applied before or after weeds emerge.

In each case where a range of rates is given, the lower rate should be used on *Coarse textured soil* and soils low in organic matter and the higher rate should be used on *Fine textured soil* and soils high in organic matter. Following many years of continuous use of this product and chemically related products, biotypes of some of the weeds listed on this label have been reported which cannot be effectively controlled by this and related herbicides. Where this is known or suspected and weeds controlled by this product are expected to be present along with resistant biotypes, we recommend the use of this product in combinations or in sequence with other registered herbicides which are not Triazines. If only resistant biotypes are expected to be present, use a registered non-Triazine herbicide. Consult with your State Agricultural Extension Service for specific recommendations.

Since this product acts mainly through root absorption, its effectiveness depends on moisture to move it into the root zone. Should weeds develop, a shallow cultivation or rotary hoeing will generally result in better weed control.

This product is non-corrosive to equipment and metal surfaces, nonflammable and has low electrical conductivity. Avoid using this product near adjacent desirable plants or in greenhouses or injury may occur. To avoid spray drift, do not apply under windy conditions. Avoid spray overlap, as crop injury may result.

**Note:** The Seller does not recommend the use of this product in combination with other herbicides or oils except as specifically described on the label or in literature published by the Seller.

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

Do not apply this product through any type of irrigation system.

### WEED RESISTANCE MANAGEMENT

#### ATRAZINE GROUP 5 HERBICIDE

For resistance management, this product is a Group 5 mode of action herbicide. Any weed population may contain or develop plants naturally resistant to this product and other Group 5 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 5 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 noncontrolled 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.

### MANDATORY SPRAY DRIFT MANAGEMENT

#### SPRAY DRIFT

##### 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 use a coarse or coarser droplet size (ASABE S572).

\*Do not apply when wind speeds exceed 10 mph at the application site.

\*User must maintain a 15 foot (4.6 m) in-field downwind buffer (in the direction in which the wind is blowing) from the following areas edge of streams and rivers as well as high-tide line for all estuarine/marine environments.

\*Do not apply during temperature inversions.

##### BOOMLESS GROUND APPLICATIONS:

\*Applicators are required to use medium coarse or coarser droplet size (ASABE S572) for all applications.

\*Do not apply when wind speeds exceed 10 mph at the application site.

\*User must maintain a 15 foot (4.6 m) in-field downwind buffer (in the direction in which the wind is blowing) from the following areas edge of streams and rivers as well as high-tide line for all estuarine/marine environments.

\*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.

#### **BOOM HEIGHT – GROUND BOOM**

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

#### **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.

#### **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.

#### **APPLICATION PROCEDURES**

**Ground Application:** Use conventional ground sprayers equipped with nozzles that provide accurate and uniform application. Be certain that nozzles are uniformly spaced and are the same size. Calibrate sprayer before use and recalibrate at the start of each season and when changing carriers. Unless otherwise specified, use a minimum of 10 gallons of spray mixture per acre for all pre-plant incorporated, preplant surface, pre-emergence and post-emergence applications (with or without oil or surfactant) with ground equipment. Use a pump with capacity to: 1) Maintain 35 to 40 psi at nozzles; 2) Provide sufficient agitation in tank to keep mixture in suspension; and 3) Provide a minimum of 20% bypass at all times.

Use centrifugal pumps which provide propeller shear action for dispersing and mixing this product. The pump should provide a minimum of 10 gallons per minute per 100 gallon tank size circulated through a correctly positioned sparger tube or jets.

Use screens to protect the pump and to prevent nozzles from clogging. Screens placed on the suction side of the pump should be 16 mesh or coarser. Do not place a screen in the recirculation line. Use 50 mesh or coarser screens between the pump and boom and where required, at the nozzles. Check nozzle manufacturer's recommendations. For band applications, calculate the amount to be applied per acre as follows:

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

#### **USE RESTRICTIONS:**

- Applications using mechanically pressurized handguns to Guava, Macadamia nuts and Sweet Corn is prohibited.
- Applications using backpack sprayers to landscape Turf is restricted to spot treatments only.

**Aerial Application** - Application by air is prohibited.

#### **THIS PRODUCT IN WATER OR LIQUID FERTILIZER APPLICATIONS**

Nitrogen solutions or complete liquid fertilizers may replace all or part of the water as a carrier for pre-emergence and pre-plant applications of this product on Corn and Sorghum. Check the compatibility of this product with liquid fertilizer and/or nitrogen solution as shown below before use. Do not apply in nitrogen solution or complete liquid fertilizer after Corn or Sorghum emerges, or crop injury may occur.

**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 0.25 teaspoon or 1.2 milliliters of a compatibility agent approved for this use, such as Compex® or Unite® (0.25 tsp. is equivalent to 2 pts. per 100 gals. of spray). Shake or stir gently to mix.
3. To both jars, add the appropriate amount of herbicide(s). If more than one herbicide is used, add them separately with dry herbicides first, flowables next and emulsifiable concentrates last. After each addition, shake or stir gently to thoroughly mix. The appropriate amount of herbicides for this test follows:

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

**Liquid Herbicides:** For each pint to be applied per acre, add 0.5 teaspoon or 2.5 milliliters to each jar.

4. After adding all ingredients, put lids on and tighten and invert each jar ten 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 two jars. If either mixture separates, but can be remixed readily, the mixture can be sprayed as long as good agitation is used. If the mixtures are incompatible, test the following methods of improving compatibility:

- a) Slurry the dry herbicide(s) in water before addition, or
- b) Add one-half of the compatibility agent to the fertilizer and the other one-half of the emulsifiable concentrate or flowable herbicide before addition to the mixture. If incompatibility is still observed, do not use the mixture.

#### **APPLICATION IN WATER PLUS EMULSIFIABLE OIL OR OIL CONCENTRATE**

Adding emulsifiable oil (petroleum-derived, petroleum-derived oil concentrate or single or mixed crop-derived oil concentrate) to postemergence water-based sprays in Corn and Sorghum may improve weed control. However, under certain conditions, the use of either type of oil may seriously injure the crop. To minimize this possibility, observe the following directions.

#### **Use one of the following properly emulsified:**

1. A suitable oil concentrate containing at least 1% but not more than 20% suitable emulsifier or surfactant blend.
2. Petroleum-derived oil containing at least 1% suitable emulsifier.

**Note:** In the event of a compatibility problem when mixing oil with this product and water, a compatibility agent such as Compex or Unite should be used. Any of the above oils contaminated with water or other materials can cause compatibility problems and/or crop injury.

#### **MIXING PROCEDURES (ALL USES)**

1. Be sure sprayer is clean and not contaminated with any other materials or crop injury or sprayer clogging may result.
2. Fill tank one-fourth full with clean water, nitrogen solution or complete liquid fertilizer.
3. Start agitation.
4. Be certain that the agitation system is working properly and creates a rippling or rolling action on the liquid surface.
5. Drop the unopened pak of this product directly into tank.



6. Continue filling tank until 90% full. Increase agitation, if necessary, to maintain surface action.
7. Add emulsifiable oil, oil concentrate or tank-mix herbicide(s) after this product is thoroughly suspended.
8. Finish filling tank.
9. Empty tank as completely as possible before refilling to prevent buildup of oil or emulsifiable concentrate residue. Maintain agitation to avoid separation of materials.
10. If an oil or emulsifiable concentrate film starts to build up in tank, drain it and clean with strong detergent solution or solvent.
11. Clean sprayer thoroughly immediately after use by flushing system with water containing a detergent.

**DRY BULK FERTILIZER IMPREGNATION**

- Impregnation of bulk fertilizer is restricted to commercial facilities. On-farm fertilizer impregnation is prohibited.
- No more than 340 tons of dry bulk fertilizer per worker per day for no more than 30 days per calendar per year for use on Corn, Sorghum and Sod can be impregnated.
- No single facility may impregnate fertilizer for no more than 30 days per calendar year.
- The commercial facility impregnating the dry bulk fertilizer must inform in writing the user (applicator) of the dry bulk fertilizer that:
  - i) Applicators must wear long-sleeved shirt, long pants, shoes and socks.
  - ii) The Restricted Entry Interval (REI) is 12 hours.

**INSTRUCTIONS FOR INTRODUCING WATERSOLUBLE PACKAGES DIRECTLY INTO SPRAY TANKS**

Soluble Packages (WSPs) are designed to dissolve in water. Agitation may be used, if necessary, to help dissolve the WSP. Failure to follow handling and mixing instructions can increase your exposure to the pesticide product in WSPs. WSPs, when used properly, qualify as a closed mixing/loading system under the Agricultural Worker Protection Standard [40CFR 170.607(d)].

**Handling Instructions:**

Follow these steps when handling pesticide products in WSPs.

8. Mix in spray tank only.
9. Handle the WSP in a manner that protects package from breakage and/or unintended release of contents. If package is broken, put on PPE required for cleanup and then continue with mixing instructions.
10. Keep the WSP in outer packaging until just before use.
11. Keep the WSP dry prior to adding to the spray tank.
12. Handle with dry gloves and according to the label instructions for PPE.
13. Keep the WSP intact. Do not cut or puncture the WSP.
14. Reseal the WSP outer packaging to protect any unused WSP(s).

**Mixing Instructions:**

Follow the steps below when mixing this product, including if it is tank-mixed with other pesticide products. If being tank-mixed, the mixing directions 1 through 9 below take precedence over the mixing directions of the other tank-mix products. WSPs may, in some cases, be mixed with other pesticide products so long as the directions for use of all the pesticide product components do not conflict. Do not tank-mix this product with products that prohibit tank-mixing or have conflicting mixing directions.

15. If a basket or strainer is present in the tank hatch, remove prior to adding the WSP to the tank.
16. Fill tank with water approximately one-third to one-half of the desired final volume of spray.
17. Stop adding water and stop any agitation.
18. Place intact/unopened WSP into the tank.
19. Do not spray water from a hose or fill pipe to break or dissolve the WSP.
20. Start mechanical and recirculation agitation from the bottom of tank without using any overhead recirculation, if possible. If overhead recirculation cannot be turned off, close the hatch before starting agitation.
21. Dissolving the WSP may take up to 5 minutes or longer depending on water temperature, water hardness and intensity of agitation.

22. Stop agitation before tank lid is opened.
23. Open the lid to the tank, exercising caution to avoid contact with dusts or spray mix, to verify that the WSP has fully dissolved and the contents have been thoroughly mixed into solution.
24. Do not add other allowed products or complete filling the tank until the bags have fully dissolved and pesticide is thoroughly mixed.
25. Once the WSP has fully dissolved and any other products have been added to the tank, resume filling the tank with water to the desired level, close the tank lid, and resume agitation.
26. Use the spray solution when mixing is complete.
27. Maintain agitation of the diluted pesticide mix during transport and application.
28. It is unlawful to use any registered pesticide, including WSPs, in a manner inconsistent with its label.

**ROTATIONAL CROPS (All Uses)**

1. Land treated with this product should not be planted to any crop except Corn or Sorghum until the following year, or injury may occur.
2. If this product is applied after June 10, do not rotate with crops other than Corn or Sorghum the next year, or injury may occur.
3. In the High Plains and Intermountain areas of the west where rainfall is sparse and erratic or where irrigation is required, use only when Corn or Sorghum is to follow Corn or Sorghum, or when a crop of untreated Corn or Sorghum is to precede other rotational crops.
4. In western MN and eastern parts of the Dakotas, KS, Corn treated with this product should not be followed with Soybeans if the broadcast rate applied was more than 2.2 pounds per acre (or comparable rate in a band), or injury to Soybeans may occur.
5. Injury may occur to Soybeans planted the year following an application on soils having a calcareous surface layer.
6. Do not plant Sugar beets, Tobacco, Vegetables (including Dry beans), Spring-seeded small grains or Small-seeded legumes and grasses the year following application of this product, or injury may occur.

**THIS PRODUCT APPLIED ALONE—CORN OR GRAIN SORGHUM Pre-plant Surface-Applied, Pre-plant Incorporated Or Pre-emergence (or Post-emergence at 2.2 lbs. per acre with Oil)**

Broadleaf or Grass Weeds Controlled	
Annual morningglory	Mustard
Barnyardgrass* (Watergrass)	Nightshade
Cocklebur**	Pigweed
Giant foxtail**	Purslane
Green foxtail*	Ragweed
Groundcherry	Sicklepod**
Jimsonweed	Velvetleaf* (Buttonweed)
Kochia	Wild oats
Lambsquarters	Witchgrass* ( <i>Panicum capillare</i> )
Large (Hairy) crabgrass**	Yellow foxtail*
*Partial control only on Medium and Fine textured soils.	
**Partial control only.	

**Post-emergence with Emulsifiable Oil or Oil Concentrate in Water (1.3 pounds per acre)**

Broadleaf Weeds Controlled	
Annual morningglory	Pigweed
Cocklebur*	Ragweed
Jimsonweed	Smartweed
Lambsquarters	Velvetleaf* (Buttonweed)
Mustard	Wild buckwheat
*Partial control only on Medium and Fine textured soils.	

Where there are state/local requirements regarding Atrazine use (including lower maximum rates and/or setbacks) which are different from this label, the more restrictive/protective requirements must be followed.

Certain states may have established rate limitations 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 regulations.



## CORN

This product may be applied either before planting, at-planting or after planting as indicated.

### PRE-PLANT SURFACE-APPLIED

**Broadleaf and Grass Weed Control:** Use on *Medium and Fine textured soils* with minimum-tillage or no-tillage systems only in CO, IA, IL, IN, KS, KY, MN, MO, MT, ND, NE, SD, WI and WY. Apply the specified rate of this product shown in **TABLE 1** up to 45 days prior to planting. If unsatisfactory length of weed control results from adverse environmental conditions following early treatment, a follow-up application of an appropriately labeled herbicide may be used. If the follow-up treatment includes Atrazine, do not exceed the labeled rate for Corn indicated in **TABLE 1**. On *Coarse textured soils*, do not apply more than two weeks prior to planting.

If weeds are present at the time of treatment, apply in tank-mix combination with a contact herbicide (for example, Paraquat or Glyphosate). Observe directions for use, use precautions and restrictions on the label of the contact herbicide.

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

### PRE-PLANT INCORPORATED

**Broadleaf and Grass Weed Control:** Broadcast in the Spring after plowing at the rate indicated in **TABLE 1**. Application may be made before, during or after final seedbed preparation. Avoid deep incorporation of this product. For best results apply within two weeks prior to planting.

### PRE-EMERGENCE OR AT-PLANTING

**Broadleaf and Grass Weed Control:** Apply during or shortly after planting, prior to weed emergence, at the rate indicated in **TABLE 1**.

### POST-EMERGENCE

**Broadleaf and Grass Weed Control:** Apply before weeds exceed 1.5 inches in height and before Corn exceeds 12 inches in height at the rate specified in **TABLE 1**.

<b>TABLE 1</b>	
<b>For Control of Broadleaf and Grass Weeds in Corn* For All Soil Applications Prior to Crop Emergence</b>	
<b>On Highly Erodible Soils**</b>	
If conservation tillage is practiced, leaving at least 30% of the soil covered with plant residues at-planting, apply a maximum of 2.2 lbs. of this product per acre as a single pre-emergence broadcast spray. If the soil coverage with plant residue is less than 30% at-planting, a maximum of 1.7 lbs. of this product per acre may be applied.	
<b>On Soils Not Highly Erodible**</b>	
Apply a maximum of 2.2 lbs. of this product per acre as a single preemergence broadcast spray.	
*Broadleaf control (eastern CO, western KS, western NE, NM, OK Panhandle, west TX and eastern WY): On Sand, Loamy sand, Sandy loam, mild to strongly Alkaline soil and all recently leveled soil, apply no more than 1.3 pounds of this product per acre, either pre-plant, pre-plant incorporate or pre-emergence. On other soils in these areas, apply rate in <b>TABLE 1</b> for Broadleaf and Grass control.	
**As defined by the Natural Resource Conservation Service.	

### FOR POST-EMERGENCE APPLICATION

If no Atrazine was applied prior to Corn emergence, apply a maximum of 2.2 pounds of this product per acre broadcast. If a post-emergence treatment is required following an earlier herbicide application, the total Atrazine applied may not exceed 2.5 pounds per acre per calendar year.

Where there are state/local requirements regarding Atrazine use (including lower maximum rates and/or greater set-backs) which are different from the label, the more restrictive/protective requirements must be followed. Certain states may have established rate limitations 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.

**POST-EMERGENCE WITH EMULSIFIABLE OIL OR OIL CONCENTRATE IN WATER:** Add the following volume of one of the type oils indicated for aerial or ground application unless the oil label specifies otherwise:

Type OF OIL	Ground Application Per Acre
Oil Concentrate (Crop or Petroleum-derived)	1 qt.
Petroleum-derived oil	1 gal.

**Note:** Crop-derived or petroleum-derived oil concentrates should contain at least 1%, but not more than 20%, suitable emulsifier or surfactant blend. Petroleum-derived oils should contain at least 1% suitable emulsifier.

**Broadleaf and Grass Control:** For post-emergence control of those weeds listed under "*PRE-PLANT INCORPORATED OR PREEMERGENCE*", broadcast 2.2 pounds of this product per acre plus emulsifiable oil or oil concentrate after weed emergence, but before weeds reach 1.5 inches in height and before Corn exceeds 12 inches in height.

**Broadleaf Control:** For post-emergence control of those weeds listed under "*POST-EMERGENCE WITH EMULSIFIABLE OIL OR OIL CONCENTRATE IN WATER*", broadcast 1.3 pounds of this product per acre plus emulsifiable oil or oil concentrate before Lambsquarters and Pigweed reach 6 inches in height and before all other weeds reach 4 inches in height. A cultivation may be necessary if all weeds are not controlled or if weeds regrow.

### USE PRECAUTIONS FOR APPLICATIONS OF THIS PRODUCT PLUS EMULSIFIABLE OIL OR OIL CONCENTRATE IN WATER TO CORN

- Do not use oil in sprays of this product when Corn is under stress from prolonged cold, wet weather, poor fertility or other factors or when Corn is wet and succulent from recent rainfall, as crop injury may occur.
- Do not use oils in sprays when treating inbred lines or any breeding stock as injury may occur.
- Adding other insecticides, herbicides, liquid fertilizers or other materials is not recommended, because they may cause compatibility problems or crop injury.
- Store and handle emulsifiable oil and oil concentrate carefully. Oil contaminated with even a small amount of water may not emulsify properly when added to the tank.
- Do not exceed 2.7 pounds of this product (2.5 lbs. active ingredient) per acre per calendar year.
- Post-emergence application to Corn must be made before Corn exceeds 12 inches in height.

### TANK-MIXTURE WITH THIS PRODUCT FOR CORN

This product may be mixed with these herbicides for control of certain Broadleaf and Grass weeds in Corn:

Alachlor	Metolachlor + Simazine + Glyphosate
Alachlor + Glyphosate	Metolachlor + Simazine + Paraquat
Alachlor + Paraquat	Paraquat
Butylate 6.7E	Propachlor
Metolachlor	Simazine
Metolachlor + Glyphosate	Simazine + Glyphosate
Metolachlor + Paraquat	Simazine + Paraquat

### Metolachlor + Simazine

Use tank-mix directions appearing on the labels of the above herbicides when tank-mixing with this product. Observe all precautions and limitations on labeling of products used in a particular tank-mix. When tank-mixing or sequentially applying Atrazine or products containing Atrazine to Corn, do not exceed an application rate of 2 pounds Atrazine active ingredient for any single application, and the total pounds of Atrazine applied (lbs. a.i./Ac.) must not exceed 2.5

pounds per acre per year.

When tank-mixing or sequentially applying Atrazine or products containing Atrazine to crops other than Corn or Sorghum, the total pounds of Atrazine applied (lbs. a.i./Ac.) must not exceed the specific seasonal rate limits as noted in the use directions.

**THIS PRODUCT PLUS SIMAZINE 4L OR SIMAZINE 90 DF**

In addition to the weeds listed under "THIS PRODUCT APPLIED ALONE - CORN OR GRAIN SORGHUM - Pre-plant Surface-Applied, Pre-plant Incorporated or Pre-emergence", this combination also controls Carpetweed, Crabgrass and Fall panicum. Broadcast tankmix before planting, at-planting or after planting, but before crop and weeds emerge, at rates in **TABLE 2**. Use the 1:1 ratio for control of most weeds. Use the 1:2 ratio for expected heavy infestations of Crabgrass and Fall panicum. Cultivate shallowly if weeds develop.

**PRE-PLANT SURFACE-APPLIED**

Use on *Medium* and *Fine textured soils* with minimum-tillage or no tillage systems only in CO, IA, IL, IN, KS, KY, MN, MO, MT, ND, NE, SD, WI and WY.

Apply the rate of this product and Simazine shown in **TABLE 2** up to 45 days prior to planting. Refer to "THIS PRODUCT APPLIED ALONE" section for information if weeds should develop following early treatment. On *Coarse textured soils*, do not apply more than 2 weeks prior to planting. Refer to the "THIS PRODUCT APPLIED ALONE - PRE-PLANT SURFACE-APPLIED" section of the Corn label for additional details.

If weeds are present at time of treatment, apply in a tank-mix combination with a contact herbicide (for example, Paraquat or Glyphosate). Observe directions for use, precautions and restrictions on the label of the contact herbicide.

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

**PRE-PLANT INCORPORATED:** Apply to the soil and incorporate in the Spring before, during or after final seedbed preparation. Avoid deep incorporation. For best results, apply within 2 weeks prior to planting.

**PRE-EMERGENCE:** Apply during or shortly after planting, but before crop and weeds emerge.

TABLE 2				
Tank-Mixes with <u>Simazine 4L on Corn</u>				
SOIL TEXTURE	Broadcast Rate Per Acre			
	1:1 Ratio*		1:2 Ratio**	
	This Product	Simazine 4L <sup>1</sup>	This Product	Simazine 4L <sup>1</sup>
COARSE: Sand, Loamy sand, Sandy loam	1.1 lbs.	2 pts.	0.75 lb.	2.6 pts.
MEDIUM: Loam, Silt loam, Silt, Clay loam, Sandy clay loam, Silty clay loam, Sandy clay or Silty clay with low organic matter	1.3 lbs.	2.4 pts.	0.9 lb.	3.2 pts.
FINE: Loam, Silt loam, Silt, Clay loam, Sandy clay loam, Silty clay loam, Sandy clay or Silty clay with medium to high organic matter and Clay (including dark prairie soils of the Corn Belt)	1.6 lbs.	3 pts.	1.1 lbs.	3.84 pts.

\*For control of most weeds.  
 \*\*For control of expected heavy infestations of Crabgrass and Fall panicum.  
<sup>1</sup>When using Simazine 90DF, use equivalent rates. 8 pts. (1 gal.) of Simazine 4L equate to 4.4 lbs. of Simazine 90DF.

Refer to "CORN" sections of this label and to Simazine 4L or Simazine 90DF labels for further directions, limitations and precautions.

**THIS PRODUCT PLUS SIMAZINE 4L OR SIMAZINE 90DF PLUS PARAQUAT**

For kill of existing vegetation and residual weed control where Corn will be planted directly into a cover crop, established Sod or in previous crop residues, apply 1.2 to 2.2 pounds of this product plus 2 to 4 pints of Simazine 4L or 1.1 to 2.2 pounds of Simazine 90DF plus a suitable amount of Paraquat per sprayed acre prior to, during or after planting, but before crop emergence. Use the lower rates of Atrazine and Simazine on *Light soils* and the higher rates on *Heavy clay soils*. Use 20 to 60 gallons of diluted spray per sprayed acre. Add Surf-Ac® 820 or another non-ionic surfactant at the rate of 8 fluid ounces per 100 gallons of diluted spray. Add this product to the spray tank while agitating, then add the Simazine, Paraquat and Surf-Ac 820. Continue agitation during application. Use the higher rate of Paraquat if existing vegetation is 4 to 6 inches tall. This mixture will not control weeds taller than 6 inches. Refer to Paraquat and Simazine labels for further limitations and precautions.

**THIS PRODUCT PLUS SIMAZINE 4L OR SIMAZINE 90DF PLUS GLYPHOSATE 480 HERBICIDE**

When applied under the conditions described, this tank-mixture controls many emerged weeds and gives pre-emergence control of many Annual weeds when Corn will be planted directly into a cover crop, established or in previous crop residues.

Apply this tank-mixture in 20 to 60 gallons of water per acre immediately before, during or after planting, but before crop emergence.

As density of stubble, crop residue or weeds increases, increase spray gallonage and rate within the label specified ranges to ensure complete coverage.

**Annual Weeds:** Apply Atrazine and Simazine to actively growing Grasses and Broadleaf weeds that are 6 inches tall at the rates given in **TABLE 3** plus 1 quart of Glyphosate 480 Herbicide per acre. If the weeds are over 6 inches tall, increase the rate of Glyphosate 480 Herbicide to 1.5 quarts.

**Perennial Weeds:** At normal application rates in minimum-tillage systems, Perennial weeds may not be at the proper stage of growth for control.

See the Glyphosate 480 Herbicide label for the proper stage of growth for Perennial weeds. Apply the Atrazine and Simazine at the rates given in **TABLE 3** plus 2 to 4 quarts of Glyphosate 480 Herbicide per acre. This combination will provide top kill and reduce competition from many emerged Perennial grasses and Broadleaf weeds. **Note:** Do not use this tank-mix on *Sand or Loamy sand soils*. Do not exceed 4 quarts of Glyphosate 480 Herbicide per acre in this tank mixture. Not recommended to control Bermudagrass or Johnsongrass in minimum-tillage systems.

TABLE 3		
This Product Plus Simazine 4L for Mixture with Glyphosate 480 Herbicide		
Soil Texture	Broadcast Rate Per Acre	
	This Product*	Simazine 4L*
COARSE: Sandy loam only	1.1 lbs.	2 pts.
MEDIUM: Loam, Silt loam, Silt, Sandy clay loam	1.1 to 1.6 lbs.	2 to 2.75 pts.
FINE: Silty clay, Loam, Clay loam, Sandy clay, Silty clay, Clay	1.3 to 1.7 lbs.	2.35 to 3.15 pts.

\* Use the higher rate of Atrazine and Simazine in the range in soil with greater than 3% organic matter. When using Simazine 90DF, use equivalent rates. 8 pts. (1 gal.) of Simazine 4L equate to 4.4 lbs. of Simazine 90DF.

**FOR ALL SOIL APPLICATIONS PRIOR TO CROP EMERGENCE**

**On Highly Erodible Soils\*:** If conservation tillage is practiced, leaving at least 30% of the soil covered with plant residues at planting, apply a maximum of 2.2 pounds of this product per acre as a single broadcast spray. If the soil coverage with plant residue is less than

30% at planting, a maximum of 1.7 pounds per acre of this product may be applied.

**On Soils Not Highly Erodible\*:** Apply a maximum of 2.2 pounds of this product per acre [1 pak per 14.7 acres] as a single broadcast spray.

\*As defined by the Natural Resource Conservation Service.

**USE PRECAUTIONS AND RESTRICTIONS FOR ALL APPLICATIONS TO CORN**

1. To avoid crop injury and illegal residues, do not apply more than 2.7 pounds of this product per acre to Corn in any one year.
2. When tank-mixing or sequentially applying Atrazine or products containing Atrazine to Corn, do not exceed an application rate of 2 pounds Atrazine active ingredient for any single application, and the total pounds of Atrazine applied (lbs. a.i./Ac.) must not exceed 2.5 pounds a.i. per acre per year.
3. When tank-mixing or sequentially applying Atrazine or products containing Atrazine to crops other than Corn or Sorghum, the total pounds of Atrazine applied (lbs. a.i./Ac.) must not exceed the specific seasonal rate limits as noted in the use directions.
4. For best control of Cocklebur and Velvetleaf, the application rate cannot be less than 2 pounds of active ingredient per acre, either alone or in a tank-mix combination.
5. Following harvest of a treated crop, plow (moldboard or disk-plow) and thoroughly till the soil in the Fall or Spring to minimize possible injury to rotational Spring-seeded crops, regardless of the rate used.
6. For Field corn, do not harvest for forage within 60 days of application. For Sweet corn, do not harvest forage within 45 days of application.
7. Applications using mechanically pressurized handguns to Sweet corn is prohibited.

For "POST-EMERGENCE APPLICATIONS PLUS EMULSIFIABLE OIL OR OIL CONCENTRATE", see additional precautions under that section of this label.

**SORGHUM AND SORGHUM-SUDAN HYBRIDS (Grain and Forage Types)**

Do not apply Atrazine and Propazine containing products to the same sorghum acre.

Apply before planting, at-planting or after planting. See "CORN" section for weeds controlled.

**PRE-PLANT SURFACE-APPLIED**

**Broadleaf and Grass Control:** Use on *Medium* and *Fine textured soil* with minimum-tillage or no-tillage systems only in CO, IA, IL, IN, KS, KY, MN, MO, MT, ND, NE, SD, WI and WY. Apply recommended rate of this product shown in **TABLE 4** up to 45 days prior to planting. If an unsatisfactory length of weed control results from adverse environmental conditions following early treatment, a follow-up application of an appropriately labeled herbicide may be used.

If the follow-up treatment includes Atrazine, do not exceed the labeled rate for Corn indicated in **TABLE 1**.

Under dry conditions, irrigation after application is recommended to move Atrazine into the soil.

If weeds are present at time of treatment, apply in a tank-mix combination with a contact herbicide (for example, Paraquat or Glyphosate). Observe directions for use, precautions and restrictions on the label of the contact herbicide.

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

**PRE-PLANT INCORPORATED**

**Broadleaf and Grass Control:** Broadcast in Spring after plowing at rate in **TABLE 4**. Apply before, during or after final seedbed preparation. If soil is tilled or worked after application, avoid deep incorporation. For best results, apply within 2 weeks prior to planting.

**Pre-Emergence or At-Planting (Broadleaf and Grass control):** Apply during or shortly after planting, but prior to weed or crop emergence at rate shown in **TABLE 4**.

**FOR POST-EMERGENCE APPLICATION (Broadleaf and Grass control):** Apply before weeds exceed 1.5 inches in height and before Sorghum exceeds 12 inches in height. If no Atrazine was applied prior to Sorghum emergence, apply a maximum of 2.2 pounds of this product per acre broadcast. If a post-emergence treatment is required

following an earlier herbicide application, the total Atrazine applied may not exceed 2.5 pounds per acre per calendar year. Where there are state/local requirements regarding Atrazine use (including lower maximum rates and/or set-backs) which are different from the label, the more restrictive/protective requirements must be followed. Certain states may have established rate limitations 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.

<b>TABLE 4</b>
<b>Pre-Plant Surface, Pre-Plant Incorporated and Pre-Emergence or At-Planting Applications*</b>
<b>For Broadleaf and Grass Weed Control in Sorghum</b>
<p><b>On Highly Erodible Soils**</b> If conservation tillage is practiced, leaving at least 30% of the soil covered with plant residues at the time of planting, apply a maximum of 2.2 lbs. of this product per acre as a single broadcast spray. If the soil coverage with plant residue is less than 30% at-planting, a maximum of 1.7 lbs. of this product per acre may be applied.</p>
<p><b>On Soils Not Highly Erodible**</b> Apply a maximum of 2.2 lbs. of this product per acre as a single broadcast spray.</p>
<p><small>*Do not apply pre-plant, surface or pre-plant incorporated in AL, AR, FL, GA, LA, MS, NC, NM, OK, SC, TN or TX. Do not apply pre-emergence in NM, OK or TX, except in northeast OK and the TX Gulf Coast and Blacklands areas. **As defined by the Natural Resource Conservation Service.</small></p>

In case of planting failures, Sorghum or Corn can be replanted. Do not make a second broadcast application or injury may occur. If this product is originally applied in a band and Sorghum or Corn is replanted in the untreated row middles, this product may be applied in a band to the second planting, provided the maximum application rate of 2.7 pounds of this product (2.5 lbs. a.i.) per acre per calendar year is not exceeded.

**PRE-EMERGENCE BROADLEAF WEED CONTROL IN FURROWIRRIGATED BEDDED SORGHUM**

**(AZ and CA only):** For pre-emergence control of many Broadleaf weeds, broadcast 0.9 to 1.3 pounds of this product per acre. Make application after bed preparation, during or after planting, but before Sorghum and weeds have emerged and before the first furrow irrigation. Several regular irrigations should follow the application, making sure that all soil is thoroughly wet.

**USE PRECAUTIONS FOR PRE-EMERGENCE APPLICATIONS OF THIS PRODUCT TO FURROW-IRRIGATED BEDDED SORGHUM**

**(AZ and CA):** To avoid possible Sorghum injury, do not use on *Sand* or *Loamy sand soils* or on Sorghum planted in the furrow. Additionally, applications made to Sorghum growing on alkali soils or where cuts, fills or erosions have exposed *Calcareous* or *Alkali subsoils*, may result in crop injury. In case of crop failure, do not replant Sorghum for eight months following application. Corn may be planted immediately.

**POST-EMERGENCE**

**Broadleaf and Grass Weed Control:** Apply before weeds exceed 1 inch in height at the rate indicated in **TABLE 5**. Application may be made to Sorghum reaching up to 12 inches in height.



TABLE 5		
Post-Emergence Broadleaf and Grass Control in Sorghum		
Soil Texture	Minimum Height of Sorghum At Treatment	Maximum Broadcast Rate of This Product Per Acre
Sand or Loamy sand	DO NOT USE	
Sandy loam	See directions for Broadleaf and Weed control below.	
Silt loam to Sandy clay loams	Completely emerged	2.2 lbs.
Olton and Pullman clay soils	At least 6 inches high	2.2 lbs.
Silty clay loams and heavier soils	Completely emerged	2.2 lbs.

If no Atrazine was applied prior to Sorghum emergence, apply a maximum of 2.2 lbs. of this product per acre. If a post-emergence treatment is required following an earlier herbicide application, the total Atrazine applied may not exceed 2.5 lbs. active ingredient (2.7 lbs. of this product) per acre per calendar year.

#### POST-EMERGENCE BROADLEAF WEED CONTROL WITH THIS PRODUCT PLUS EMULSIFIABLE OIL OR OIL CONCENTRATE IN WATER

Broadcast 1.3 pounds of this product per acre for control of many Broadleaf weeds. Application should be made before Lambsquarters and Pigweed reach 6 inches in height and before all other weeds reach 4 inches in height. In CO, western KS, NM, OK, TX and desert regions of AZ and CA, apply when Sorghum is 6 to 12 inches in height, but before it reaches boot stage. In all other areas, apply after Sorghum reaches the three-leaf stage, but before it exceeds 12 inches in height. Add emulsifiable oil at the rate of 1 gallon per acre for ground application or add 1 quart per acre of oil concentrate. A cultivation may be necessary if all weeds are not controlled or if regrowth of weeds occurs. For the list of weeds controlled, see "THIS PRODUCT APPLIED ALONE - CORN OR GRAIN SORGHUM - POSTEMERGENCE WITH EMULSIFIABLE OIL OR OIL CONCENTRATE IN WATER."

**USE PRECAUTIONS FOR APPLICATION OF THIS PRODUCT PLUS EMULSIFIABLE OIL OR OIL CONCENTRATE IN WATER TO SORGHUM—** See "USE PRECAUTIONS FOR APPLICATIONS WITH EMULSIFIABLE OIL OR OIL CONCENTRATE IN WATER" in the "CORN" section.

**POST-EMERGENCE BROADLEAF WEED CONTROL WITH THIS PRODUCT PLUS SURFACTANT (CO, Western KS, NM, OK, TX and Desert regions of AZ and CA only):** Broadcast 1.3 pounds of this product plus 0.75 to 1.5 pints of surfactant per acre after Sorghum reaches 6 inches in height, but before weeds reach 1.5 inches in height. Apply only on *Sandy loams* and *Finer textured soils*.

#### USE PRECAUTIONS AND RESTRICTIONS FOR ALL APPLICATIONS TO SORGHUM

- Heavy rains immediately following application tend to cause excessive concentrations of herbicide in seed furrow, resulting in possible crop injury. Make applications to furrow-planted Sorghum until after furrows are leveled (plow-in). Level deep planter marks or seed furrows before application.
- Application made to Sorghum growing under stress caused by minor element deficiency or to Sorghum growing on highly calcareous soils may result in crop injury.
- Following harvest, plow (moldboard or disk-plow) and thoroughly till the soil in the Fall or Spring to minimize possible injury to Spring-seeded rotational crops, regardless of rate used.
- Injury may occur if both this herbicide, pre-plant surface, preplant incorporated or pre-emergence and an at-planting systemic insecticide applied in-furrow are used.
- Do not apply more than 2.7 pounds of this product (2.5 lbs. a.i.) per acre per calendar year.
- For all soil applications prior to crop emergence (except for preemergence use on bedded Sorghum in AZ and CA), do not apply to *Coarse textured soils*, i.e., *Sand*, *Loamy sand*, *Sandy loam* or to *Medium* and *Fine-textured soils* having less than 1% organic matter or injury may occur.

- Do not apply Atrazine and Propazine containing products to the same Sorghum acre.
- For post-emergence applications, do not apply to *Sand* or *Loamy sand* or injury may occur.
- Do not harvest for forage within 60 days of a pre-emergence application and 45 days of a post-emergent application.

For applications to furrow-irrigated bedded Sorghum in AZ and CA and for post-emergence applications plus emulsifiable oil, see additional precautions under these sections of this label.

#### TANK-MIXTURES FOR GRAIN SORGHUM THIS PRODUCT + METOLACHLOR on Grain Sorghum

**(Cyometrinil-Treated Seed):** This product + Metolachlor tank mixture provides control of weeds listed on the Metolachlor label and this label. Follow use instructions, precautions and limitations on the Metolachlor label.

When tank-mixing or sequentially applying Atrazine or products containing Atrazine to Sorghum, do not exceed an application rate of 2 pounds Atrazine active ingredient for any single application, and the total pounds of Atrazine applied (lbs. a.i./Ac.) must not exceed 2.5 pounds per acre per year.

When tank-mixing or sequentially applying Atrazine or products containing Atrazine to crops other than Corn or Sorghum, the total pounds of Atrazine applied (lbs. a.i./Ac.) must not exceed the specific seasonal rate limits as noted in the use directions.

#### WINTER WEED CONTROL IN TEXAS

For post-emergence control of Winter weeds only, such as Annual thistle, Henbit and Seedling dock on Fall-bedded land in the Gulf Coast and Blacklands of TX, apply 0.9 to 1.1 pounds of this product per acre post-emergence to the weeds in November or December to land that will be planted to Corn, Grain sorghum or Forage sorghum the following Spring. For best results add a suitable surfactant such as Surf-Ac 820 at the rate of 0.5% of the spray volume, an emulsifiable oil at the rate of 1% of the spray volume or an oil concentrate at the rate of 1 quart per acre.

Normal weed control programs may be used in the following: Corn, Grain sorghum or Forage sorghum crops.

#### Use Precaution and Restriction:

Do not plant any crops except Corn, Forage sorghum or Grain sorghum the Spring following this treatment or illegal residues may result.

#### CHEMICAL FALLOW—THIS PRODUCT ALONE

Users must only apply to fallow land in the following states according to the prescribed rotation pattern in the table below:

Fallow Rotation Pattern	Fallow Use Authorized in these States only
Wheat-Corn-Fallow	CO, KS, ND, NE, SD, & WY
Wheat-Fallow-Wheat	CO, KS, ND, NE, SD, & WY
Wheat-Sorghum-Fallow	AR, CO, GA, IL, KS, LA, MS, MO, NE, NM, NC, OK, SD, & TX

**WHEAT-SORGHUM-FALLOW (AR, CO, GA, IL, KS, LA, MS, MO, NE, NM, NC, OK, SD and TX):** This treatment controls annual Broadleaf and Grass weeds following Wheat harvest and in the following Sorghum crop when grown under minimum-tillage.

Apply 2.5 pounds of this product per acre to Wheat stubble immediately following Wheat harvest. If weeds are present, remove them with a sweep plow or other suitable implement after application or use an approved contact herbicide before or after application of this product. Plant Sorghum into Wheat stubble the following Spring with minimum disturbance of the soil. Use a surface planter or a planter leaving a shallow furrow. If weeds are present at-planting, remove them with a sweep plow or other suitable implement before planting.

For soils in ND and SD with a pH of 7.5 or greater, do not apply more than 1.6 pounds of this product (1.5 lbs. a.i.) per acre for any application. For soils in ND and SD with a pH of less than 7.5, do not apply more than 2.2 pounds of this product (2 lbs. a.i.) per acre for any application. For all other locations, do not apply more than 2.5 pounds of this product (2.25 lbs. a.i.) per acre for any application.

Do not apply more than one application per cycle.



For the list of weeds controlled, see "THIS PRODUCT APPLIED ALONE - CORN OR GRAIN SORGHUM - Pre-plant Surface-Applied, Pre-plant Incorporated or Pre-emergence".

**Use Precautions and Restrictions:**

1. Use only on *Silt loam* or *Fine-textured soil*, or crop injury may result.
2. Wheat-Sorghum-Fallow cropping sequence must be followed.
3. Do not apply following Sorghum harvest.
4. Only one application is allowed per cycle for all chemical fallow applications.
5. To avoid illegal residues, do not graze or feed forage from treated areas to livestock.
6. To avoid illegal residues and crop injury, do not plant any crop other than those on this label within 18 months following treatment.

**WHEAT-CORN-FALLOW (CO, KS, ND, NE, SD, and WY):** This product controls Cheatgrass (Downy brome, Chess), Kochia, Mustard, Pigweed, Russian thistle, Wild lettuce, Wild sunflower and Volunteer wheat during period after Wheat harvest. Weed control may extend into following Corn crop grown under minimum-tillage. On soils in ND and SD with pH greater than 7.5, do not exceed 1.6 pounds of this product (1.5 lbs. a.i.) per acre for any application. For soils with a pH less than 7.5 in ND and SD, apply 1.1 to 2.2 pounds of this product (1 to 2 lbs. a.i.) per acre. Use the higher rate on *Fine textured soils* and where heavy weed infestations are expected; use the lower rate on *Coarse textured soils* and where light weed infestations are expected. Do not apply more than 2.2 pounds of this product (2 lbs. a.i.) per acre for any application.

For all other locations, do not apply more than 2.5 pounds of this product (2.25 lbs. a.i.) per acre for any application. In the event grasses are present the following Spring, use a Grass herbicide registered for use on Corn.

Follow directions for use and "USE PRECAUTIONS AND RESTRICTIONS" in the "WHEAT-SORGHUM-FALLOW" section above, substituting Corn for references to Sorghum.

Do not apply more than one application per cycle.

**WHEAT-FALLOW-WHEAT (CO, KS, MT, ND, NE, SD and WY):** For pre-emergence and control of Cheatgrass (Downy brome, Chess), Common lambsquarters, Field pennycress, Kochia, Mustard, Russian thistle, Wild lettuce and suppression of Volunteer wheat during fallow period of a Wheat-Fallow-Wheat rotation, broadcast 0.5 to 1.1 pounds of this product per acre on all soils except those listed under "USE PRECAUTIONS AND RESTRICTIONS".

For control of Pigweed and Wild sunflower, use the higher rate. Apply to stubble ground. Treat only once during same fallow period. For soils in ND and SD with a pH of 7.5 or greater, do not apply more than 1.6 pounds of this product (1.5 lbs. a.i.) per acre for any application. For soils in ND and SD with a pH of less than 7.5, do not apply more than 2.2 pounds of this product (2 lbs. a.i.) per acre for any application. For all other locations, do not apply more than 2.5 pounds of this product (2.25 lbs. a.i.) per acre for any application. Do not apply more than one application per cycle.

**TANK-MIXTURES FOR CHEMICAL FALLOW**

**WHEAT-SORGHUM-FALLOW OR WHEAT-CORN-FALLOW (KS, NE)**

**THIS PRODUCT PLUS PARAQUAT:** If weeds are present at application, a tank-mix with Paraquat may be used. Broadcast 2.5 pounds of this product plus a suitable amount of Paraquat in 20 to 60 gallons of water per acre by ground equipment. Add 0.5 to 1 pint of a non-ionic surfactant, such as Surf-Ac 820, per 100 gallons of spray mixture. Add this product to spray tank first and thoroughly mix with water. Then add Paraquat followed by surfactant. Use the higher rate of Paraquat if weeds are 4 to 6 inches tall. This mixture will not control weeds taller than 6 inches. Apply to stubble ground. Do not apply more than 2.5 pounds of this product (2.25 lbs. a.i.) per acre for any application.

Do not apply more than one application per cycle.

Refer to Paraquat label for further directions, precautions and limitations.

**WHEAT-FALLOW-WHEAT (CO, KS, ND, NE, SD AND WY) THIS PRODUCT PLUS PARAQUAT:** If weeds are present at application, a tank-mix with Paraquat may be used. Broadcast 0.5 to 1.1 pounds of this product plus a suitable amount of Paraquat in 20 to 60 gallons of water per acre by ground equipment. Add 0.5 to 1 pint of a non-ionic

surfactant, such as Surf-Ac 820 per 100 gallons of spray mixture. Add this product to spray tank first and thoroughly mix with water. Then add Paraquat followed by surfactant. Use the higher rate of Paraquat specified on the label if weeds are 4 to 6 inches tall. This mixture will not control weeds taller than 6 inches. Apply to stubble ground.

For soils in ND and SD with a pH of 7.5 or greater, do not apply more than 1.6 pounds of this product (1.5 lbs. a.i.) per acre for any application. For soils in ND and SD with a pH of less than 7.5, do not apply more than 2.2 pounds of this product (2 lbs. a.i.) per acre for any application. For all other locations, do not apply more than 2.5 pounds of this product (2.25 lbs. a.i.) per acre for any application.

Do not apply more than one application per cycle.

Refer to the Paraquat label for further directions, precautions and limitations.

If weeds are present at application and this product is used alone, use either an approved contact herbicide before or after treatment or tillage after treatment.

Use tillage to control weeds which escape during fallow period. Till before planting. For this product applied alone or in tank-mixture with Paraquat, plant at least 2 inches deep and 12 months or more after application.

**Use Precaution and Restrictions:**

1. Only one application is allowed per cycle for all chemical fallow applications.
2. Do not use on *Sandy soil*.
3. Do not treat eroded hillsides, caliche and rocky outcroppings or exposed *Calcareous subsoil*.
4. Do not treat soils of the Rosebud and Canyon Series in western NE and adjoining counties in CO and WY.
5. Do not treat soils with calcareous surface layers.
6. Avoid spray overlap.
7. Do not graze treated areas within 6 months after application or illegal residues may result.

**SUGARCANE**

For control of many Broadleaf and Grass weeds, such as Amaranths, Crabgrass, Fireweed, Flora's paintbrush, Foxtail, Junglerice and Wiregrass, broadcast 2.2 to 4.4 pounds of this product per acre at time of planting or ratooning, but before the Sugarcane emerges. Broadcast or band by ground equipment in a minimum of 20 gallons per acre, unless indicated otherwise. One additional application may be made over the cane as it emerges and two additional applications may be made interline after emergence, as a directed spray. Repeat treatments, where needed, may be applied broadcast, band or interline as suggested with the final application being prior to "close-in". Do not exceed the rate of herbicide suggested for any one crop of Sugarcane.

**Note:** Where high rates of this product are used, apply in a minimum of 1 gallon of water for each pound of this product applied per acre.

**USE PRECAUTIONS AND RESTRICTIONS FOR ALL STATES AND USES**

1. Do not apply this product after "close-in".
2. Do not apply more than 4.4 pounds of this product (4 lbs. a.i.) per acre for any application. Do not apply more than 11.1 pounds of this product (10 lbs. a.i.) per acre per crop.
3. Injury to Sugarcane may occur when under moisture stress, when soil is of low absorptive capacity or when land is first cropped to Sugarcane.

For specific weed problems, the following may be used. Other rate and application timings may be used for other weed spectrums and cultural practices, provided they are within the above "GENERAL USE DIRECTIONS FOR ALL STATES" and are consistent with the "USE PRECAUTIONS FOR ALL STATES AND USES".

**FLORIDA**

For control of emerged Pellitory weeds (Artillery weed), apply 0.4 to 0.6 pound of this product per acre in 40 gallons of water per acre as a directed spray by ground equipment prior to "close-in". Add 2 quarts of surfactant for each 50 gallons of spray and be sure Weed foliage is thoroughly covered.

For control of Alexandergrass, Large crabgrass, Pellitory weed (Artillery weed) and Spiny amaranth, use one of the following methods at-planting or ratooning:

1. Apply 4.4 pounds of this product per acre pre-emergence. Follow with one or two applications, as needed, post-emergence to Sugarcane and weeds at 2.2 pounds per acre. Treat before weeds exceed 1.5 inches in height.
2. Apply 1 to 3 times, as needed, at 2.2 pounds of this product per acre post-emergence to Sugarcane and weeds. Treat before weeds exceed 1.5 inches in height.

The total pounds of active ingredient applied by pre-emergent PLUS post-emergent applications cannot exceed 11.1 pounds of this product (10 lbs. a.i.) per acre per crop.

#### LOUISIANA

For control of Annual weeds during the Summer fallow period, apply 2.2 pounds of this product per acre to weed-free beds immediately after bed formation. Follow normal weed control after planting.

**Additional Precautions and Use Restrictions** — To Avoid Crop Injury in LA:

1. Do not apply more than 11.1 pounds of this product per acre to any one crop of Sugarcane.
2. If making 2.2 pounds of this product per acre application during Summer fallow period, do not exceed 8.8 pounds of this product per acre during the remainder of the growing season.

#### TEXAS

Use this product for control of Barnyardgrass, Pigweed, Purslane and Sunflower in plant or ratoon Sugarcane.

Apply 4.4 pounds per acre of this product per acre pre-emergence. Follow with one or two applications, as needed, at 3.3 pounds of this product per acre post-emergence to Sugarcane and weeds.

For best results, when weeds are emerged, add a non-ionic surfactant, such as Surf-Ac 820, at a concentration of 2 quarts per 100 gallons to the spray and apply before weeds exceed 1.5 inches in height.

#### ST. AUGUSTINE GRASS, CENTIPEDEGRASS AND DORMANT BERMUDAGRASS

This product controls Annual bluegrass, Florida betony, Spurweed and many other weeds in Home lawn, Ornamental and Recreational turf. This product may be applied with any pump-up or compressed air type sprayer or with a hose-on type sprayer. This product will control both emerged weeds and weeds from seeds. Rain or watering within 2 to 3 days of application may decrease the effectiveness on emerged weeds. However, for control of weeds from seeds, rainfall or watering is necessary within 7 to 10 days after treatment.

**Note:** Do not apply within the active root zone of Vegetables or desirable Ornamental plants such as Azaleas, Boxwoods, Camellias, etc. However, treatments with this product should not normally cause injury to medium or large shrubs or trees in the landscape. Do not plant any crop (Flower or Vegetable gardens) to treated areas for 18 months or injury may result.

#### WEEDS CONTROLLED OR SUPPRESSED

Annual bluegrass (*Poa annua*), Chickweed (Common and Mouseear), Crabgrass, Cransbill, Cudweed, Dichondra, Florida betony, Henbit, Knotweed, Lespedeza, Moneywort, Mustard, Narrowleaf vetch, Parsley-piert, Sandspur, Smutgrass, Spurge, Spurweed, Swinecrest, Woodsorrel and various annual Clovers.

#### TIMING OF APPLICATION

The timing of applications to achieve maximum control may vary quite a bit with different weed species. The following application times are suggested for certain problem weeds.

**Spurweed:** Best control of Spurweed can be obtained by applying this product when Spurweed has emerged (December and January).

**Florida betony:** Apply this product when this weed emerges in the Fall.

**Dichondra, Moneywort:** Applications for Florida betony or Spurweed generally will give control or suppression of the other weeds listed. This product will give the best control when applied to young, tender weeds or just prior to weed emergence. Do not apply to growing Bermudagrass.

#### ST. AUGUSTINE AND CENTIPEDEGRASSES

This product may be applied to established Centipedegrasses and St. Augustine grasses during both the dormant and the growing season. Best results are usually obtained in the early Spring or dormant

periods when weeds are small or have not emerged. Follow rate listed in the "RATE OF APPLICATION" table below.

#### DORMANT BERMUDAGRASS

This product may be applied to Bermudagrass during the dormant season only. Applications to Bermudagrass during the growing season will cause injury. Follow rate in the "RATE OF APPLICATION" table below.

#### RATE OF APPLICATION

Determine the total area to be sprayed and base rate of application on the chart below. Avoid overlapping spray pattern while treating.

Area to be Treated	Amount of THIS PRODUCT
500 sq. ft.	0.20 oz. (5.6 g) (0.012 lb. a.i.)
1,000 sq. ft.	0.40 oz. (11.3 g) (0.024 lb. a.i.)
3,000 sq. ft.	1.21 oz. (0.07 lb. a.i.)
5,450 sq. ft.	0.13 lb. (0.125 lb. a.i.)
10,890 sq. ft. (0.25 acre)	0.27 lb. (0.25 lb. a.i.)
1 acre	1.1 lb. (1 lb. a.i.)

#### USE RESTRICTIONS

- 1) Do not cut for hay or graze treated areas within 3 months following an application.
- 2) Do not apply more than 1.1 pounds of this product (1 lb. a.i.) per acre (0.4 oz./1,000 sq. ft.) per application. Do not apply more than 2.2 pounds of this product (2 lbs. a.i.) per acre (0.8 oz./1,000 sq. ft.) per year.
- 3) Maximum number of application per acre per year is two.
- 4) Do not seed or transplant species which are sensitive to this product within 18 months after application.
- 5) Do not use backpack spray application to Landscape turf except for spot treatments only.

#### TURFGRASS FOR FAIRWAYS, LAWNS, SOD PRODUCTION\* AND RESIDENTIAL SITES\*\*

\*For Bermudagrass sod production only. For Centipedegrass, St. Augustinegrass and Zoysiagrass sod production, refer to the section "TURFGRASSES FOR SOD PRODUCTION" below. \*\*Residential sites (including Daycare facilities, Home, Parks, Playgrounds, Recreational areas, Schools and Sports fields).

#### Bermudagrass, Centipedegrass, St. Augustine grass and Zoysiagrass:

Apply this product after October 1 before emergence of Winter annual weeds for control of Annual bluegrass, Burclover, Carpet burweed, Chickweed, Corn speedwell, Henbit, Hop clover and Spurweed. This product will control Annual bluegrass even if it is emerged at time of treatment. For control of Summer annual weeds listed in the pre-emergence portion of the "THIS PRODUCT APPLIED ALONE - CORN OR GRAIN SORGHUM - Pre-plant Surface-Applied, or Pre-plant Incorporated or Pre-emergence" section of this label, also apply this product in late Winter before the weeds emerge. Apply in a minimum of 15 gallons of water per acre or 1 gallon per 1,000 square feet (0.4 fl. oz. per 1,000 sq. ft.).

Use 1.1 pounds of this product per acre against the weeds named above. Do not exceed 1.1 pounds of this product per acre per treatment on newly sprigged Turfgrass or on hybrid Bermudagrass such as Tiflawn, Tifway and Ormond.

For continued Summer annual weed control, apply another 1.1 pounds of this product per acre at least 30 days after the previous application, but not after April 15. However, do not make more than 2 applications of this product per year. On newly sprigged Turfgrass and hybrid Bermudagrass, temporary slowing of growth and yellowing may occur following application.

#### USE RESTRICTIONS

1. For Turfgrass at Residential sites including Homes, Day care facilities, Schools, Playgrounds, Parks, Recreational areas and Sports fields, do not apply more than 1.1 pounds of this product (1 lb. a.i.) per acre for any application. Do not apply more than 2.2 pounds of this product (2 lbs. a.i.) per acre per year. Maximum number of application per acre per year is two.
2. Do not use backpack spray application to landscape Turf except for spot treatments only.
3. Do not graze or feed Turf clippings to animals or illegal residues may result.

**To avoid Turf injury:** 1) Use only on Turfgrass reasonably free of infestations of insects, nematodes and diseases. 2) Do not use on golf greens. 3) Do not use north of NC (except may be used in VA Coastal Plains) or west of the high rainfall areas of eastern OK and eastern TX. 4) Do not use on *Muck* or *Alkaline soils*. 5) Do not apply over the rooting area of Trees or Ornamentals not listed on this label. 6) Do not overseed with desirable Turfgrass within 4 months before or 6 months after treatment. 7) Do not apply this product to newly seeded Bermudagrass until it has over-wintered and has a well developed rhizome system. Do not exceed 2.2 pounds of this product per acre within 12 months of seeding Bermudagrass.

#### TURFGRASSES FOR SOD

**St. Augustine grass, Centipedegrass and Zoysiagrass:** Broadcast 2.2 to 4.4 pounds of this product per acre according to soil texture to control those weeds listed under *"THIS PRODUCT APPLIED ALONE—CORN OR GRAIN SORGHUM - Pre-plant Surface-Applied, Pre-plant Incorporated or Pre-emergence"*.

Muck or Peat	4.4 lbs. of this product	OLD BEDS: Within 2 days after lifting sod. NEW BEDS: 3 to 4 days after sprigging or plugging.
Sandy Soil	2.2 lbs. of this product	OLD BEDS: Within 2 days after lifting sod. NEW BEDS: 7 to 10 days after sprigging or plugging.

If weeds regrow, apply an additional 2.2 lbs. of this product per acre on *Muck or Peat* or 1.1 pounds of this product per acre on *Sandy soil*.

#### USE PRECAUTIONS AND RESTRICTIONS

- For *Muck or Peat soils*, do not apply more than 4.4 pounds of this product (4 lbs. a.i.) per acre for any application. Do not apply more than 6.6 pounds of this product (6 lbs. a.i.) per acre per year. For *Sandy soil*, do not apply more than 2.2 pounds of this product (2 lbs. a.i.) per acre for any application. Do not apply more than 3.3 pounds of this product (3 lbs. a.i.) per acre per year.
- Do not apply within 30 days prior to cutting or lifting.
- Do not apply in combination with surfactants or other spray additives.
- Use only on Turfgrass reasonably free of infestations of insects, nematodes and diseases.
- On newly-sprigged Turfgrass, temporary slowing of growth may follow application.

#### MACADAMIA NUTS

For pre-emergence control of many Broadleaf and Grass weeds, including Crabgrass, Fireweed, Flora's paintbrush, Foxtails, Spanishneedles and Wiregrass, broadcast 2.2 to 4.4 pounds of this product per acre before harvest and before weeds emerge. Repeat as necessary but do not exceed 8.8 pounds of this product (8 lbs. a.i.) per acre per year.

#### USE RESTRICTIONS

- Application using mechanically pressurized handguns to Macadamia nuts is prohibited.
- Do not apply more than 4.4 pounds of this product (4 lbs. a.i.) per acre for any application.
- Do not apply more than 8.8 pounds of this product (8 lbs. a.i.) per acre per year.
- Do not spray when Nuts are on the ground during harvest period.
- Do not apply by air.

#### GUAVA

Use only on established plantings which are at least 18 months old. Apply as a directed spray at 2.2 to 4.4 pounds of this product per acre in 20 to 50 gallons of spray mix pre-emergence or early postemergence to weeds. When applying post-emergence, the use of a surfactant and greater spray volume (80 to 100 gals. of spray mix per acre) may enhance weed control.

This product controls many annual Broadleaf and Grass weeds, including Fireweed, Purslane, Scarlet pimpernel, Sowthistle and Spanishneedles.

#### USE RESTRICTIONS

- Application using mechanically pressurized handguns to Guava is prohibited.
- Do not allow spray to contact foliage or fruit.

- Do not apply more frequently than at 4 month intervals.
- Do not apply more than 4.4 pounds of this product (4 lbs. a.i.) per acre for any application.
- Do not apply more than 8.8 pounds of this product (8 lbs. a.i.) per acre per year.

#### STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Storage should be under lock and key and secure from access by unauthorized persons and children. Store in a cool, dry area away from any heat or ignition source. Do not stack over 2 pallets high. Move bags carefully so as not to tear or puncture. Do not move containers from one area to another unless they are securely sealed. Keep container tightly sealed when not in use. Do not allow bags to become wet or store in a damp, humid area. Keep away from any puncture source. Avoid storage near water supplies, food, feed and fertilizer to avoid contamination. Store in original container only. If the contents are leaking or material is spilled, follow these steps:

- Collect and place in suitable containers for disposal.
- Wash area with soap and water to remove remaining pesticide.
- Follow washing with clean water rinse.
- Do not allow runoff to enter sewer or contaminate water supplies.
- Dispose of waste as indicated below.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

#### 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 directed and other influencing factors in the use of this product are beyond the control of the Seller. To the extent consistent with applicable law, Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith.

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

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