



U.S. ENVIRONMENTAL PROTECTION AGENCY
 Office of Pesticide Programs
 Registration Division (7505P)
 1200 Pennsylvania Ave., N.W.
 Washington, D.C. 20460

EPA Reg. Number:
 83529-57

Date of Issuance:
 07/19/2016

NOTICE OF PESTICIDE:

Registration
 Reregistration
 (under FIFRA, as amended)

Term of Issuance:
 Conditional

Name of Pesticide Product:
 Sharda Metolachlor 84.4 EC-D

Name and Address of Registrant (include ZIP Code):

Ms. Cheryl Wagner
 Sharda USA LLC
 c/o Wagner Regulatory Associates, Inc.
 P.O. Box 640
 Hockessin, DE 19707

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

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

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

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Kathryn Montague, Product Manager 23
 Herbicide Branch
 Registration Division (7505P)
 Office of Pesticide Programs

Date:

07/19/2016

2. You are required to comply with the data requirements described in the DCI identified below:
 - a. Metolachlor GDCI-108801-1506

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI listed above, you may contact the Chemical Review Manager in the Pesticide Reevaluation Division: <http://iaspub.epa.gov/apex/pesticides/f?p=chemicalsearch:1>

3. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, “EPA Reg. No. 83529-57.”
4. Submit one copy of the final printed label for the record before you release the product for shipment.

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.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 02/29/2016

If you have any questions, please contact Karen Samek by phone at (703) 347-8825, or via email at samek.karen@epa.gov.

Enclosure

GROUP 15 HERBICIDE

Sharda Metolachlor 84.4EC-D

Herbicide for use in corn

ACTIVE INGREDIENT: Metolachlor: 2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl) acetamide..... **WT. BY %** 84.4%
OTHER INGREDIENTS: 15.6%
TOTAL: **100.00%**
Contains 7.8 lbs. of active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN CAUTION/PRECAUCION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand this label, find someone to explain it to you in detail.)

FIRST AID	
IF INHALED:	<ul style="list-style-type: none">• Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.• Call a poison control center or doctor for treatment advice.
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice.
IF IN EYES:	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15-20 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.• Call a poison control center or doctor for further treatment advice.
IF SWALLOWED:	<ul style="list-style-type: none">• 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 by a poison control center or doctor.• Do not give anything by mouth to an unconscious person.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. In case of an emergency involving this product, call CHEMTREC at **1-800-424-9300**.

**Physical and Chemical Hazard: Do not mix or allow coming in contact with oxidizing agents.
Hazardous chemical reaction may occur.**

[See inside booklet for complete [additional] [First Aid,] Precautionary Statements, and Directions For Use.]

EPA Reg. No. 83529-XX

EPA Est. No. XXXXX-XX-XXX

Manufactured for:
Sharda USA LLC 
7217 Lancaster Pike, Suite A
Hockessin, Delaware 19707

Net Contents: _____

ACCEPTED
07/19/2016
Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under
EPA Reg. No. 83529-57

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS and Domestic Animals
CAUTION

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

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below.

Applicators and other handlers must wear:

- Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves, such as barrier laminate, butyl rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, or nitrile rubber ≥ 14 mils, polyethylene, PVC ≥ 14 mils, or Viton ≥ 14 mils
- Chemical-resistant footwear plus socks
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when cleaning equipment, mixing, or loading

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

ENGINEERING CONTROL STATEMENTS

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

When handlers used closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

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

ENVIRONMENTAL HAZARDS

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

Ground Water Advisory

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

Surface Water Advisory

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

Mixing/Loading Instructions

DO NOT allow **Sharda Metolachlor 84.4EC-D** to back-siphon into wells, spill, or improper disposal of excess pesticide, spray mixtures, or rinsates.

Check valves or anti-siphoning devices must be used on all mixing and/or irrigation equipment.

Do not mix or load **Sharda Metolachlor 84.4EC-D** within 50 feet of perennial or intermittent streams and rivers, natural or impounded lakes, and reservoirs. Do not mix or load **Sharda Metolachlor 84.4EC-D** within 50 feet of all wells, including abandoned wells, drainage wells, and sink holes. Operations that involve mixing, loading, rinsing, or washing of **Sharda Metolachlor 84.4EC-D** into or from pesticide handling or application equipment or containers within 50 feet of any well are prohibited unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or wash-water, and rain water that may fall on the pad. Surface water shall not be allowed to either flow over or from the pad, which means that the pad must be self-contained. The pad must be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain at a minimum 110% of the capacity of the largest

pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment capacity of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above-specified minimum containment capacities do not apply to vehicles when delivering pesticide shipments to the mixing/loading site.

DIRECTIONS FOR USE

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

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. This labeling must be in the possession of the user at the time of pesticide application.

AGRICULTURAL USE REQUIREMENTS

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

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of **12 hours**.

Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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

- Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves such as barrier laminate, butyl rubber ≥ 14 mils, or nitrile rubber ≥ 14 mils, or neoprene rubber ≥ 14 mils, polyethylene, PVC ≥ 14 mils, or Viton ≥ 14 mils
- Shoes plus socks

Failure to follow the Directions for Use, Restrictions, and Precautions in this label can result in poor weed control, crop injury, and/or illegal residues.

Not for sale, use, or distribution in Nassau or Suffolk counties in New York.

Do not apply **Sharda Metolachlor 84.4EC-D** in windy conditions. Do not allow spray to overlap as crop injury can occur.

PRODUCT INFORMATION

Observe all precautions and limitations on the labels of each state-registered product used in tank mixtures. Tank mixtures are permitted only in states where the tank mix partner product is registered.

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

Sharda Metolachlor 84.4EC-D is a selective herbicide that can be used pre-plant surface-applied, pre-plant incorporated, or pre-emergence treatment in water or liquid fertilizer to control listed annual grasses and broadleaf weeds in all types of corn. Post-emergence applications of **Sharda Metolachlor 84.4EC-D** can be made on corn.

RESISTANCE MANAGEMENT

Sharda Metolachlor 84.4EC-D is a Group 15 herbicide. Weed populations may contain or develop plants that become naturally resistant to metolachlor and/or other Group 15 herbicide products. If Group 15 herbicides are used repeatedly in the same field or in successive years as the primary method of control of targeted species, weed species that have developed resistance to Group 15 herbicides can dominate the weed population, resulting in partial or total loss of weed control.

To avoid herbicide resistance:

- Do not use **Sharda Metolachlor 84.4EC-D** consecutively with other Group 15 herbicides that have similar modes of action on targeted weed.
- Use tank mixtures and premixes from different Groups provided that the products involved are registered for the same use, have different modes of action, and/or are effective at the tank mix or prepack rate on the weed(s) concerned.
- Utilize a comprehensive Integrated Pest Management (IPM) program.
- Monitor treated areas for loss of field efficacy.

- Contact your local state extension specialist, certified crop advisors, and/or manufacturer for herbicide resistance management and/or integrated weed management recommendations for specific crops and resistant weed biotypes.

APPLICATION INSTRUCTIONS

SOIL TEXTURES AND APPLICATION RATES

Where rates are based on soil texture, classes are categorized as follows:

Coarse-Textured	Medium-Textured	Fine-Textured
Sand, Loamy sand, Sandy loam	Loam, Silt loam, Silt	Sandy clay loam, Silty clay loam, Clay loam, Sandy Clay, Silty loam, Silty Clay, Clay

Coarse-textured/low organic matter soils: Use the lower rate within the specified rate range.

Fine-textured/high organic matter soils: Use the higher rate within the specified rate range.

APPLICATION METHODS

Apply **Sharda Metolachlor 84.4EC-D** alone or in combination with specified tank mix partners following pre-plant incorporated herbicides when used according to label instructions and such use is not prohibited on the respective labels.

Thoroughly clean sprayer/application device before applying **Sharda Metolachlor 84.4EC-D**. Dispose of cleaning solution in a responsible manner. Do not use a sprayer or applicator contaminated with any other materials to avoid crop damage and/or clogging of the application device.

MIXING INSTRUCTIONS

Mix **Sharda Metolachlor 84.4EC-D** alone with water or liquid fertilizer and apply as a spray:

- Fill the spray tank $\frac{1}{2}$ - $\frac{3}{4}$ full of water or liquid fertilizer.
- Add the specified amount of **Sharda Metolachlor 84.4EC-D**.
- Add the remaining water or liquid fertilizer.
- Maintain sufficient agitation during mixing and application to maintain a uniform emulsion.

TANK MIX APPLICATIONS

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

Tank Mixtures:

- Fill the spray tank $\frac{1}{4}$ full with water, and begin agitation.
- Add 2,4-D, AAtrex®, Balan®, Banvel, Canopy®, Caparol 4L®, Command®, Cotoran®, Eptam®, Gemini®, Lexone®, Lorox®, Lorox Plus, Marksman®, MSMA, Preview®, Princep®, Prowl®, Pursuit®, AAtrex + Princep, Scepter®, Sencor®, Sonalan®, or Treflan®, ensuring products disperse.
- Add **Sharda Metolachlor 84.4EC-D**.
- Add Gramoxone® Extra, Landmaster® BW, or Roundup® if these products are being used.
- Add the rest of the water.

For tank mixtures with AAtrex, Banvel, Canopy, Caparol 4L, Command, Cotoran*, Eptam, Gemini, Lexone, Lorox, Lorox Plus, Marksman, Preview, Princep, Prowl*, Pursuit, AAtrex + Princep, Scepter, Sencor, Sonalan, or Treflan, liquid fertilizers can replace all or part of the water as carrier, except for AAtrex post-emergence and Banvel post-emergence tank mixes. For tank mixtures with AAtrex, refer to the AAtrex label for additional mixing instructions. For each mixture, check compatibility with liquid fertilizers before mixing in spray tank. For all tank mixtures, agitate during mixing and application to maintain a uniform suspension.

*See **Special Mixing Instructions** for tank mixtures with Cotoran, and with AAtrex or Princep + Prowl under the appropriate tank mixture section.

Compatibility Test

Because liquid fertilizers vary, even within the same analysis, always **check compatibility with herbicide(s) prior to use**. Serious compatibility issues are most likely to occur when mixing with complete suspension or liquid fertilizers. Commercial application equipment can improve compatibility. The following test assumes a spray volume of 25 gals./A. For other spray volumes, make appropriate changes in the ingredients. To check compatibility:

1. Add 1 pint of fertilizer to each of 2 one-quart jars with tight lids.
2. To **one** of the jars, add $\frac{1}{4}$ tsp. (1.2 milliliters) of a compatibility agent approved for this use such as Compex® or Unite® (1/4 tsp. is equivalent to 2 pts./100 gals. spray). Shake/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 in the following order:

- 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 is:

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.

Note: For **Sharda Metolachlor 84.4EC-D** tank mixtures with AAtrex + Princep, use $\frac{1}{3}$ - $\frac{1}{2}$ the amount of AAtrex specified and the remainder as Princep, depending on whether the 1:2 or 1:1 ratio of AAtrex to Princep is to be applied.

4. After adding all ingredients, put lids on and tighten, and invert each jar 10 times to mix.
5. Let the mixtures stand 15 minutes.
6. After 15 minutes, check jars for chemical separation, large flakes, precipitates, gels, heavy oily film on the jar, or other signs of incompatibility. Determine if a compatibility agent is needed in the spray mixture by comparing the 2 jars. If either mixture separates but can be remixed readily, the mixture can be sprayed as long as adequate agitation is maintained.

If the mixtures are incompatible, the following methods may improve compatibility:

- Slurry the dry herbicide(s) in water before adding, or
- Add $\frac{1}{2}$ of the compatibility agent to the fertilizer, and the other $\frac{1}{2}$ to the emulsifiable concentrate or flowable herbicide before adding to the mixture.

If incompatibility is still observed, do not use the mixture.

APPLICATION TIMING

Sharda Metolachlor 84.4EC-D alone or in some tank mixtures with other labeled herbicides may be applied for weed control in corn at various times. Refer to the **CORN** section of the label to determine if application timings listed below are specified.

Pre-Plant Surface Applications

45 days before planting: For minimum-tillage or no-tillage systems only, apply **Sharda Metolachlor 84.4EC-D** alone, or with **Sharda Metolachlor 84.4EC-D** tank mixtures.

30-45 days before planting: Make split applications, with $\frac{2}{3}$ the specified broadcast rate for the crop and soil texture applied initially and the remaining $\frac{1}{3}$ at planting.

Less than 30 days before planting: Make split applications or a single application.

Refer to individual crop to determine if early pre-plant surface application instructions are provided. If weeds are present at the time of treatment, apply in a tank mixture combination with a contact herbicide (for example, Gramoxone Extra or Roundup). Observe directions for use, precautions, and restrictions on the label of the contact herbicide. To the extent possible, do not move treated soil out of the row or move untreated soil to the surface during planting, or weed control will be diminished.

Pre-Plant Incorporated: Apply **Sharda Metolachlor 84.4EC-D** to the soil and incorporate into the top 2 inches of soil within 14 days before planting, using a finishing disk, harrow, rolling cultivator, or similar implement capable of providing uniform 2-inch incorporation. Use a pre-plant incorporated application if furrow irrigation is used or when a period of dry weather after application is expected. If crop will be planted on beds, apply and incorporate **Sharda Metolachlor 84.4EC-D** after bed formation, unless specified otherwise.

Pre-Emergence: Apply **Sharda Metolachlor 84.4EC-D** during planting (behind the planter) or after planting but before weeds or crops emerge.

Post-Emergence: One application of **Sharda Metolachlor 84.4EC-D** will provide pre-emergence control or partial control of annual grasses and broadleaf weeds listed in the "**Weeds Controlled**" section of this label. Application of this product alone will not control emerged weeds; **Sharda Metolachlor 84.4EC-D** must be applied to a weed-free surface, or in tank mixture with products that provide post-emergence weed control. If weeds are present at the time of application, tank-mix with a labeled post-emergence herbicide and observe all directions for use, precautions and restrictions on the label of the tank-mix partner. For additional post-emergence information follow the crop specific label requirements identified on this label.

SPECIAL APPLICATION PROCEDURES

Fall Applications in the states of Iowa, Minnesota, North Dakota, South Dakota, Wisconsin, portions of Nebraska and Illinois (see directions for use for corn section for timing of application and other instructions): Apply **Sharda Metolachlor 84.4EC-D** on medium- and fine-textured soils with more than 2.5% organic matter that will be planted to corn the following spring. The ground can be tilled before or after application.

Restrictions:

- DO NOT apply to frozen ground.
- DO NOT exceed 2-3-inch incorporation depth if soil is tilled after treatment.
- If a spring application is made, the total rate of the fall application and the spring application combined must not exceed the maximum total rate for the specific crop or illegal residues can result.

Ground Application

Apply **Sharda Metolachlor 84.4EC-D** alone or in tank mixtures by ground equipment in a minimum of 10 gals. of spray mixture per acre unless otherwise specified. Use sprayers that provide accurate and uniform application. For **Sharda Metolachlor 84.4EC-D** tank mixtures with wettable powder or dry flowable formulations, screens and strainers must not be finer than 50-mesh. Rinse sprayer thoroughly with clean water immediately after use.

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

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

Low Carrier Volumes: Broadcast Ground Application Only

Use sprayers, such as Ag-Chem RoGator®, Hagie, John Deere Hi-CycleT, Melroe Spra-Coupe, Tyler Patriot™, or Willmar Air Ride®, that provide accurate and uniform application. **Only water may be used as a carrier.** Screens in suction and in-line strainers must be 50-mesh. Manufacturers may require that tip screens as fine as 100-mesh be used with some nozzles. Use a pump with capacity to:

- maintain up to 35-40 psi at the nozzles
- provide sufficient agitation in tank to keep mixture in suspension.

Use a minimum of 5 gals. of spray mixture per acre. Maximum sprayer speed is 15 mph. Rinse sprayer thoroughly with clean water immediately after each use.

Note: Use low pressure nozzles to reduce drift and increase application accuracy. Exercise care when using automatic rate controlling devices to spray the material within the rated working pressure and flow ranges of the nozzles selected. Use nozzle screens used when specified by the manufacturer. Place nozzles on 20-inch centers, except flooding types which must be placed on 40-inch centers. When Flat Fan-type nozzles are used, use those with angles of 80° or 110°. Always read and follow the manufacturer's directions for optimum setup and performance of their nozzles or tips.

AERIAL APPLICATION

Apply **Sharda Metolachlor 84.4EC-D** in water alone or in tank mixture with AAtrex, Lexone, Lorox, or Sencor in a minimum volume of 2 gals./A. Aerial applications of **Sharda Metolachlor 84.4EC-D** can also be made with Balan, Prowl, or Treflan. Do not apply under conditions where uniform coverage cannot be obtained, or when excessive spray drift may occur.

To avoid injury to sensitive crops from drift, aerial applications must adhere to the following **AERIAL USE**

DIRECTIONS, RESTRICTIONS AND PRECAUTIONS:

- Nozzle height above the ground must be a maximum of 10 feet above the crop with low drift nozzles at a maximum pressure of 40 psi.
- Nozzles must be pointed toward the rear of the aircraft. The downward angle of the nozzle must not exceed 45 degrees.
- Nozzles and/or spray boom must not be located any closer to the end of the wing or rotor than $\frac{3}{4}$ the distance from the center of the aircraft.
- Use a maximum spray pressure of 40 psi.
- Establish a buffer zone between the area to be sprayed and sensitive crops.
- DO NOT spray when wind speed exceeds 10 mph.
- Do not apply to humans or animals.
- Do not allow flagmen and loaders to inhale spray mist or have prolonged skin contact.

To avoid injury to sensitive crops:

- Apply **Sharda Metolachlor 84.4EC-D** alone or in tank mix with AAtrex a minimum of 400 feet from sensitive plants.
- Apply **Sharda Metolachlor 84.4EC-D** + Lexone, Lorox, or Sencor a minimum of 300 feet upwind from sensitive plants.

The applicator is responsible for any loss or damage resulting from the application of **Sharda Metolachlor 84.4EC-D** in any manner not listed on this label. The applicator is responsible for following all state and local regulations and ordinances relative to spraying **Sharda Metolachlor 84.4EC-D**.

SPRAY DRIFT MANAGEMENT

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

Ground Applications: Apply using a nozzle height no more than 4 feet above the ground or crop canopy.

Aerial Applications: Product efficacy is reduced if the distance of the outermost nozzles on the boom exceed $\frac{3}{4}$ the length of the wingspan or rotor. Nozzles must point backward parallel with the air stream and must not be pointed downward more than 45 degrees. Where states have more stringent regulations, they must be observed.

The applicator must be familiar with and account for the information provided in the **SPRAY DRIFT MANAGEMENT** section of this label.

IMPORTANCE OF DROPLET SIZE

The most effective way to reduce drift potential is to apply large droplets greater than 150-200 microns. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see **Wind, Temperature and Humidity**, and **Temperature Inversion** sections). The presence of sensitive crops/species, environmental conditions, and pest pressure can impact applicator decisions in balancing drift control and coverage.

CONTROLLING DROPLET SIZE

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

BOOM LENGTH

For some use patterns, reducing the effective boom length to less than $\frac{3}{4}$ of the wingspan or rotor length may further reduce drift without reducing swath width.

APPLICATION HEIGHT

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

SWATH ADJUSTMENT

When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.).

WIND

Drift potential is lowest between wind speeds of 2 - 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Don't apply when wind speed below 2 mph due to variable wind direction and high inversion potential. **NOTE:** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect drift.

TEMPERATURE AND HUMIDITY

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

TEMPERATURE INVERSIONS

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

SENSITIVE AREAS

Sharda Metolachlor 84.4EC-D must only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g., when wind is blowing away from the sensitive areas).

APPLICATION WITH IMPREGNATED DRY BULK GRANULAR FERTILIZERS

Sharda Metolachlor 84.4EC-D may be impregnated or coated on many dry bulk granular fertilizers and applied alone or with **Sharda Metolachlor 84.4EC-D** tank mixtures that are registered for pre-plant incorporation or pre-plant surface application. Follow all directions for use restrictions and precautions on the **Sharda Metolachlor 84.4EC-D** label regarding corn, rates per acre, soil texture, application methods, and rotational crops.

It is the responsibility of the individual and/or company selling the herbicide/fertilizer mixture to comply with all individual state regulations relating to dry bulk granular fertilizer blending, registration, labeling, and application.

Prepare the herbicide/fertilizer mixture by using any closed drum, belt, ribbon, or other commonly used dry bulk fertilizer blender. Space nozzles used to spray **Sharda Metolachlor 84.4EC-D** onto the fertilizer to provide uniform spray coverage. Aim the spray onto the fertilizer only, avoiding the walls of the blender.

If the herbicide/fertilizer mixture is too wet, add a highly absorptive material, such as Agsorb® FG or Celatom MP-79®, or similar granular clay or diatomaceous earth materials, to obtain a dry, free-flowing mixture. Add absorptive materials only after the herbicide has been thoroughly blended into the fertilizer mixture. Best application results are obtained when a granule of 6/30 particle size or of a size similar to that of the fertilizer materials is used. Use less than 2% by weight of absorptive material. Do not use more than 5% absorptive material by weight.

Calculate the amount of **Sharda Metolachlor 84.4EC-D, AAtrex, AAtrex + Princep, Princep, Sencor, Lexone, or Sonalan** using the following formula:

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

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

Application by Pneumatic (Compressed Air) Equipment (Sharda Metolachlor 84.4EC-D alone): High humidity, high urea concentrations, low fertilizer use rates, and dusty fertilizer can cause fertilizer mixtures to build up and/or plug the distributor head, air tubes, or nozzle deflector plates. To minimize buildup, premix 1-4 pints/gallon **Sharda Metolachlor 84.4EC-D** and ExxonMobil™ Aromatic 200. Aromatic 200 is a noncombustible, nonflammable petroleum product that can be used in either a fertilizer blender or through direct injection systems. Do not use drying agents when using Aromatic 200.

If impregnating **Sharda Metolachlor 84.4EC-D** in a blender before application, substitute drying agent for the Aromatic 200 for a dryer mixture. Do not use drying agents with On-The-Go impregnation equipment.

Precautions: Use mixtures of **Sharda Metolachlor 84.4EC-D** and Aromatic 200 on dry fertilizer only. Poor results or crop injury can occur if these mixtures are used in water or liquid fertilizer solutions for spraying applications.

Restrictions:

To avoid potential for explosion:

- DO NOT impregnate **Sharda Metolachlor 84.4EC-D** on ammonium nitrate, potassium nitrate, or sodium nitrate, either alone or in blends with other fertilizers.
- DO NOT use **Sharda Metolachlor 84.4EC-D** on straight limestone as absorption will not occur.
- Fertilizer blends containing limestone can be impregnated.

Application of Impregnated Dry Bulk Granular Fertilizer

Apply 200 to 700 pounds of the herbicide/fertilizer mixture per acre. Apply the mixture uniformly to the soil with properly calibrated equipment immediately after blending. Uniform application of the herbicide/fertilizer mixture is essential in order to prevent possible crop injury to subsequent rotational crops. Non-uniform application results in unsatisfactory weed control. In areas where conventional tillage is practiced, incorporate the mixture shallowly into the soil. On fine- or medium-textured soils in areas where soil incorporation is not planned, i.e., reduced-tillage situations or in some conventional till situations, apply **Sharda Metolachlor 84.4EC-D** approximately 30 days before planting to allow moisture to move the herbicide/fertilizer mixture into the soil. On coarse-textured soils, apply **Sharda Metolachlor 84.4EC-D** approximately 14 days prior to planting. Do not use herbicide/fertilizer mixtures on crops where bedding occurs.

CHEMIGATION - CENTER PIVOT IRRIGATION

Sharda Metolachlor 84.4EC-D alone or in tank mixture with other herbicides on this label that are registered for center pivot application can be applied in irrigation water pre-emergence (after planting but before weeds or crop emerge) at specified rates listed on this label. Apply this product only through a center pivot irrigation system.

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

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

Operating Instructions

1. The system must contain a functional check-valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water-source contamination from back flow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check-valve to prevent the flow of fluid back toward the injection pump.

3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump or piston pump), effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.
8. Prepare a mixture with a minimum of 1 part of water to 1 part herbicide(s) and inject this mixture into the center pivot system. Injecting a larger volume of a more dilute mixture per hour will usually provide more accurate calibration of metering equipment. Maintain sufficient agitation to keep the herbicide in suspension.
9. Meter into irrigation water during entire period of water application.
10. Apply in ½-1 inch of water. Use the lower water volume (½ inch) on coarse-textured soils and the higher volume (1 inch) on fine-textured soils. More than 1 inch of water at application may reduce weed control by moving the herbicide below the effective zone in the soil.

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

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

CLEANING INSTRUCTIONS

- Do not use the same sprayer without thoroughly cleaning on sensitive crops; minute residues of **Sharda Metolachlor 84.4EC-D** in the tank can injure crops.
- Wash sprayer and spray equipment thoroughly with clean water immediately after use.
- Drain any remaining spray solution of **Sharda Metolachlor 84.4EC-D** from the spray tank and dispose of according to label disposal instructions.
- Rinse the spray tank and refill with water, adding 1 cup heavy-duty detergent per 20 gallons of water.
- Recycle this mixture through the equipment for 5 minutes, and spray out.
- Clean pump and nozzle screens thoroughly.
- Wash away any spray mixture from the outside of spray tank, nozzles or spray rig.
- Dispose of all rinse water in compliance with local, state, and Federal guidelines.

USE PRECAUTIONS

Where directions specify a **Sharda Metolachlor 84.4EC-D** tank mixture with AAtrex formulations, other brands of atrazine may be used. Follow the rates, instructions, and limitations on the AAtrex or respective atrazine product label if other brands of atrazine are used.

Dry weather following pre-emergence application of **Sharda Metolachlor 84.4EC-D** or a tank mixture can reduce efficacy. Cultivate if weeds develop.

Where reference is made to weeds being partially controlled, partial control means erratic control that can range from poor to good, or consistent control at levels below what is generally considered acceptable for commercial weed control.

USE RESTRICTIONS

- Do not apply under conditions which favor runoff or wind erosion of soil containing this product to non-target areas.
- Do not apply to impervious substrates such as paved or highly compacted surfaces.
- Do not apply to powdery dry or light sand soils when conditions favor wind erosion. Soil surfaces must first be settled by rainfall or irrigation.
- Do not use tail-water from the first flood or furrow irrigation of treated fields to treat non-target crops unless at least ½ inch of rainfall has occurred between application and the first irrigation.
- If **Sharda Metolachlor 84.4EC-D** is incorporated, any supplemental tillage before planting must not exceed the depth of incorporation.

Sharda Metolachlor 84.4EC-D applied alone controls or partially controls the following weeds:

Barnyardgrass (watergrass)	Foxtail millet	Shattercanej
Bristly foxtail	Galinsoga	Signalgrass (<i>Brachiaria</i>)
Carpetweed	Giant foxtail	Southwestern cupgrass
Common purslanej	Goosegrass	Tall waterhemp
Common waterhemp	Green foxtail	Texas panicumj
Crabgrass	Hairy nightshade	Volunteer sorghumj

Crowfootgrass	Pigweed	Wild proso millet*
Eastern black nightshade	Prairie cupgrass	Witchgrass
Ecliptaj	Red rice	Woolly cupgrass*
Fall panicum	Robust foxtails (purple, white)	Yellow foxtail
Florida beggarweedf	Sandburf	Yellow nutsedge
Florida pusley	Seedling johnsongrassf	

J Partial control. Refer to the **product information** section. Weed control is erratic due partially to variable weather conditions.

*For control of these weeds in corn only, refer to the **Corn - Woolly Cupgrass and Wild Proso Millet Control Program** section of this label. **Florida Beggarweed:** Apply a minimum of 2 pints/acre pre-emergence for partial control.
Texas panicum: Apply a minimum of 2 pints/acre using a center pivot irrigation system.

To improve weed control:

1. Till moist soil thoroughly to destroy germinating and emerged weeds. If **Sharda Metolachlor 84.4EC-D** is applied Pre-Plant incorporated, tillage may be used to incorporate **Sharda Metolachlor 84.4EC-D** if uniform 2-inch incorporation is achieved as specified in **Application Procedures**.
2. Plant crop into moist soil immediately after tillage. If **Sharda Metolachlor 84.4EC-D** is to be used pre-emergence, apply at planting or immediately after planting.
3. Irrigate ½ - 1 inch of water with a sprinkler system, if available, within 2 days of application. Irrigate with ½ inch water volume on coarse-textured soils, and 1 inch on fine-textured soils. Refer to the section on **Center Pivot Irrigation Application** for instructions with this application method.
4. If irrigation is impossible and rain does not occur within 2 days after planting and application, weed control may be decreased. Under these conditions, perform a shallow cultivation as soon as weeds emerge.

To improve weed control in corn, use 2.0 - 2.67 pts./A or the pre-plant surface-applied rates for **Sharda Metolachlor 84.4EC-D** alone or in tank mixture, if allowed, when making pre-plant incorporated or pre-emergence applications.

Rotational Crops:

Sharda Metolachlor 84.4EC-D Alone:

If a crop treated with **Sharda Metolachlor 84.4EC-D** alone is lost, any crop on this label may be replanted immediately. Do not make a second broadcast application of this product. If the original application was banded and the second crop is planted in the untreated row middles, make a second banded treatment.

Crop	Rotation Interval (Months)
Alfalfa	4 Months
Barley, oats, rye, wheat	4 ½ Months
Clover	9 Months
Tomatoes	6 Months
Any crop on this label plus root crops, tobacco, barley, buckwheat, milo, rice, cabbage, peppers, stone fruits, or tree nuts	Spring following treatment
All other crops	12 Months

Following a lay-by treatment or multiple treatments applied the previous season, any crop on this label, in addition to tobacco, cabbage, or peppers, stone fruits, or tree nuts may be planted in the spring.

Restrictions:

- Do not make a second broadcast application of **Sharda Metolachlor 84.4EC-D**.

Sharda Metolachlor 84.4EC-D Tank Mixtures: For **Rotational Crops** restrictions for **Sharda Metolachlor 84.4EC-D** used in tank mixtures, refer to the statements/restrictions above for **Sharda Metolachlor 84.4EC-D** and to the respective product labels of any mixing partner(s) for additional statements/restrictions.

CORN (Field, Sweet, and Pop)

Sharda Metolachlor 84.4EC-D ALONE

Make either pre-plant surface, pre-plant incorporated, pre-emergence, or lay-by applications using the rates specified.

Pre-Plant Surface-Applied Application:

Refer to instructions for use of **Sharda Metolachlor 84.4EC-D** alone under **Application Instructions**.

Fall Application (Apply after September 30 in MN, ND, SD, WI and north of Route 30 in IA; Apply after October 15 north of Route 91 in NE and south of Route 30 in IA; Apply after October 31 north of Route 136 in IL): In all locations, apply to crop stubble after harvest when the sustained soil temperature at a 4-inch depth is less than 55°F and falling. In minimum-till or no-tillage systems on soils having greater than 2.5% organic matter, apply 1.67 - 2.0 pts./A on *medium-textured* and 2.0 pts./A on *fine-textured soils*. A fall and/or spring tillage operation may precede the application. Minimize furrow and ridge formation in the tillage operations.

Restrictions:

- If a spring application is made, the sum total rate of fall and spring applications must not exceed the maximum total rate for corn.
- Do not apply to frozen ground.
- A fall and/or spring tillage may follow application, but do not exceed an incorporation depth greater than 2 - 3 inches.

Use of **Sharda Metolachlor 84.4EC-D** on medium- and fine-textured soils with minimum-tillage or no-tillage systems in CO, IA, IL, IN, KS, KY, MN, MO, MT, ND, NE, SD, TN, WI, and WY:

- Apply 2/3 the specified labeled rate of **Sharda Metolachlor 84.4EC-D** (1.67 pts./A on medium soils and 2.0 pts./A on fine soils) as a split treatment 30 - 45 days before planting and the remainder at planting. Applications made less than 30 days prior to planting may be as either a split application or single treatment.
- Apply 1.33 pts./A on coarse soils not more than 2 weeks prior to planting.

On medium- and fine-textured soils with minimum- or no-tillage systems in CT, DE, MA, MD, ME, MI, NH, NY, OH, PA, RI, VA, VT, and WV, pre-plant surface applications may be applied following the directions for use above. If the amount of rainfall results in unsatisfactory length of weed control following the earlier treatment, a post-emergence application of an appropriately labeled broadleaf and/or grass weed herbicide may be used, i.e., AAtrex, Beacon®, Bicep®, Exceed®, Accent®, Banvel, Basagran®, bromoxynil (Brominal® or Buctril®), or 2,4-D. Observe all directions for use, restrictions, precautions, and limitations on the post-emergent herbicide label.

Restriction:

- If the post-emergence treatment includes an herbicide used pre-plant surface-applied, do not exceed the total maximum specified rate for corn on a given soil texture.

Pre-Plant Incorporated or Pre-Emergence Applications:

Follow instructions for use of **Sharda Metolachlor 84.4EC-D** alone under **Application Instructions**.

Coarse soils: Apply 1.0 - 1.33 pts./A of **Sharda Metolachlor 84.4EC-D** if organic matter content is less than 3%, or 1.33 pts./A if organic matter content is 3% or greater.

Medium soils: Apply 1.33 - 1.67 pts./A of **Sharda Metolachlor 84.4EC-D**.

Fine soils: Apply 1.33 - 1.67 pts./A of **Sharda Metolachlor 84.4EC-D** if organic matter content is less than 3%, or 1.67 - 2.0 pts./A if organic matter content is 3% or greater.

Lay-by Applications:

To extend the duration of weed control in corn, apply the maximum rate of 2.0 pts. per acre **Sharda Metolachlor 84.4EC-D** after corn emerges until the corn reaches 40 inches tall, following any pre-plant surface-applied, pre-plant incorporated, or pre-emergence herbicide application, including **Sharda Metolachlor 84.4EC-D**.

For best results, apply to soil free of emerged weeds and directed towards the base of corn plants in excess of 5 inches tall. The total **Sharda Metolachlor 84.4EC-D** rate applied on corn during any one crop year must not exceed 4 pts./A, depending on soil texture.

Corn Restrictions:

- Do not graze or feed forage from treated areas for 30 days following application.

Shattercane, Wild Proso Millet, Woolly Cupgrass, and Eclipta - Partial Control:

Apply 2.0 - 2.5 pts./A of **Sharda Metolachlor 84.4EC-D** as a single application, or apply 1.0 - 1.33 pts./A pre-plant incorporated followed by 1.0 - 1.33 pts./A of **Sharda Metolachlor 84.4EC-D** pre-emergence. Make pre-emergence application during or after planting, but before weeds and corn emerge. Apply the 1.33 pts./A rate of **Sharda Metolachlor 84.4EC-D** when a heavy infestation of shattercane, wild proso millet, woolly cupgrass, or eclipta is expected. Make a shallow cultivation to control any late emerging weeds. Do not apply more than a total of 2.55 pts./A **Sharda Metolachlor 84.4EC-D**.

Woolly Cupgrass and Wild Proso Millet Control:

Medium soils: Apply 1.67 pts./A **Sharda Metolachlor 84.4EC-D** early pre-plant, pre-plant incorporated, or pre-emergence.

Fine soils: Apply 2.0 pts./A up to the maximum specified label rate. Lightly incorporate with a rotary hoe if rainfall does not occur within 5 - 7 days

Apply a post-emergence tank mix of 0.38 oz./A Beacon or 1 packet per 4 acres Exceed plus Accent SP at 0.33 oz./A plus 1 qt. of crop oil concentrate plus 1 gal./A of 28% nitrogen, or the equivalent amount of ammonium sulfate, when grasses are 2-3 inches tall and the corn is at least 4 inches tall. Cultivate 14-21 days after the post-emergence application.

Precautions:

If annual weeds escape following a pre-plant surface, pre-plant incorporated, or pre-emergence treatment of **Sharda Metolachlor 84.4EC-D**, follow with a post-emergence application of an appropriately labeled broadleaf and/or grass weed herbicide, i.e., AAtrex, Beacon, Bicep, Exceed®, Accent, Banvel, Basagran, Brominal, Buctril, or 2,4-D.

Restrictions:

- Do not apply more than the specified labeled rate for a given soil texture per year, either as a single or split treatment.
- Do not use **Sharda Metolachlor 84.4EC-D** on peat or muck soils.
- If the post-emergence treatment includes the herbicide used in the earlier treatment, do not exceed the total labeled rate for corn on a given soil texture.
- Do not exceed 1.2 lbs. a.i./A of AAtrex in tank-mix combination with Brominal or Buctril post-emergence.
- Refer to the AAtrex, Brominal, and Buctril labels for specific rates and precautions.

In corn, **Sharda Metolachlor 84.4EC-D** may be used up to 2.75 pts./A either pre-plant surface, pre-plant incorporated, or pre-emergence treatment on soils having an organic matter content between 6%-20% or up to 2.0 pts./A on any soil for extended residual control and where sever stands of problem weeds are expected.

Brominal and Buctril may be applied post-emergence alone or in tank-mix combination with AAtrex. Refer to the AAtrex, Brominal, or Buctril labels for specific rates and precautions.

Sharda Metolachlor 84.4EC-D Combinations for Corn

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

Sharda Metolachlor 84.4EC-D in any tank mixture for corn (except **Sharda Metolachlor 84.4EC-D** + AAtrex post-emergence and **Sharda Metolachlor 84.4EC-D** + Banvel post-emergence) may be applied in water or fluid fertilizer. Use only water in the **Sharda Metolachlor 84.4EC-D** + AAtrex or the **Sharda Metolachlor 84.4EC-D** + Banvel post-emergence tank mixes.

Restriction:

- Do not graze or feed forage from treated areas for 30 days following application.

FOR TANK MIXTURES WITH AATREX (OR OTHER BRANDS OF ATRAZINE):

All the restrictions and rate limitations on the AAtrex label must be followed if more restrictive/protective than those on this label. In addition, if AAtrex is/must be applied at rates lower than those listed on this label, broadleaf weed control may be affected. Refer to the AAtrex label for weeds controlled at the reduced rates.

Sharda Metolachlor 84.4EC-D Tank Mixtures for Corn - Additional Weeds Controlled and Special Instructions

Tank Mix: Sharda Metolachlor 84.4EC-D +	Weeds Controlled	Weeds Partially Controlled
AAtrex and/or Princep (Pre-Plant Surface, PPI, PRE)	Controls: Browntop panicum, Cocklebur, Common purslane, Hairy nightshade, Lambsquarters, Morningglory, Ragweed, Smartweed, Velvetleaf	
AAtrex (Post)	Controls: Kochia, Lambsquarters, Mustard, Prickly sida, Ragweed, Smartweed, Velvetleaf Partially controls: Cocklebur, Jimsonweed, Morningglory	
Banvel (Field Corn)	Controls: Lambsquarters, Ragweed, Smartweed Partially controls: Cocklebur, Jimsonweed, Morningglory, Velvetleaf	
AAtrex + Lorox	Controls: Browntop panicum, Cocklebur, Common purslane, Hairy nightshade, Lambsquarters, Morningglory, Pigweed, Ragweed, Smartweed, Velvetleaf	
AAtrex or Princep + Prowl	Controls: Browntop panicum, Cocklebur, Common purslane, Hairy nightshade, Lambsquarters, Morningglory, Pigweed, Ragweed, Smartweed, Velvetleaf	
Marksman	Controls: Cocklebur, Common purslane, Hairy nightshade, Jimsonweed, Kochia, Lambsquarters, Morningglory, Mustard, Pigweed, Prickly sida, Ragweed, Smartweed, Velvetleaf	
Broadstrike® + Sharda Metolachlor 84.4EC-D	Controls: Common purslane, Hairy nightshade, Kochia, Lambsquarters, Mustard, Pigweed, Prickly sida, Smartweed, Velvetleaf Controls or Partially controls: Cocklebur, Jimsonweed, Morningglory, Ragweed depending on ratio of products used and/or weed population.	

MIXING INSTRUCTIONS

Special Mixing Instructions for Sharda Metolachlor 84.4EC-D + AAtrex or Princep and Prowl:

- Although a single formulation for AAtrex or Princep is listed in the rate tables, other formulations may be substituted, using the following formula: 1 lb. of AAtrex Nine-O® or Princep Caliber 90® = 1.8 pts. of AAtrex 4L or Princep 4L.
- Fill the spray tank ¼ full with water or fluid fertilizer and start agitation.

- Add a compatibility agent at 4 pts./100 gals. spray mixture, such as Unite or X-77.
- Add the AAtrex or Princep and allow it to become dispersed.
- Add **Sharda Metolachlor 84.4EC-D** and Prowl 4E.
- Add the rest of the water.

Additional AAtrex Instructions:

- Although directions specify AAtrex formulations in tank mixture with **Sharda Metolachlor 84.4EC-D**, other brands of atrazine may be used. Follow the rates, specifications, and limitations on the atrazine label.
- See additional mixing instructions on the AAtrex label.
- Refer to the **Sharda Metolachlor 84.4EC-D Combinations for Corn - Tank Mixture with AAtrex; or AAtrex + 2,4-D; or AAtrex + 2,4-D + Banvel for Minimum-Tillage or No-Tillage Systems** sections for specific directions for 2,4-D or banvel burndown combinations in Minimum-Tillage and No-Tillage systems.

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

Lorox Instructions: Other formulations of Lorox can be used: 1 lb. of Lorox DF = 1 pt. of Lorox L.

In minimum-tillage and no-tillage systems, mix with Gramoxone Extra for control of most emerged annual weeds and suppression of perennial weeds; or with Landmaster BW for suppression of emerged field bindweed and control or suppression of annual weeds; or with Roundup for control of most emerged annual and perennial weeds.

Sharda Metolachlor 84.4EC-D in any tank mixture for corn may be applied in water or fluid fertilizer, except as follows:

Corn Restrictions:

- For all applications to corn, do not graze or feed forage from treated areas for 30 days following application.
- When applying **Sharda Metolachlor 84.4EC-D** in tank mixture with AAtrex, do not exceed a total of 2.5 lbs. a.i. of atrazine per acre per year.

Refer to **Corn (All Types) - Sharda Metolachlor 84.4EC-D Alone**, for sequential post-emergence treatments if escape weeds develop.

In corn, **Sharda Metolachlor 84.4EC-D** may be used up to 2.0 pts./A in combinations on any soil for extended residual control and where severe stands of problem weeds are expected.

Tank Mixture with AAtrex or Princep, or AAtrex + Princep - Pre-Plant Surface, Pre-Plant Incorporated, or Pre-Emergence

In addition to the weeds controlled by **Sharda Metolachlor 84.4EC-D** alone, **Sharda Metolachlor 84.4EC-D** + AAtrex or Princep, or **Sharda Metolachlor 84.4EC-D** + AAtrex + Princep, applied pre-plant surface, pre-plant incorporated, or pre-emergence, also controls the following weeds:

Browntop Panicum	Hairy Nightshade	Ragweed
Cocklebur	Lambsquarters	Smartweed
Common Purslane	Morningglory	Velvetleaf

Apply **Sharda Metolachlor 84.4EC-D** + AAtrex or Princep, or **Sharda Metolachlor 84.4EC-D** + AAtrex + Princep either pre-plant surface, pre-plant incorporated, or pre-emergence.

Pre-Plant Surface-Applied: Follow instructions for use of **Sharda Metolachlor 84.4EC-D** alone under **Application Instructions** and under application instructions for **Sharda Metolachlor 84.4EC-D** alone on corn. Apply **Sharda Metolachlor 84.4EC-D** + AAtrex or Princep, or **Sharda Metolachlor 84.4EC-D** + AAtrex + Princep on medium soils (1.67 pts./A of **Sharda Metolachlor 84.4EC-D** + 3.2 - 4 pts./A of AAtrex 4L or Princep 4L, or AAtrex 4L + Princep 4L combined) and on fine soils (1.67 - 2.0 pts./A of **Sharda Metolachlor 84.4EC-D** + 4 - 5 pts./A of AAtrex 4L or Princep 4L, or AAtrex 4L + Princep 4L combined) in minimum-tillage and no-tillage systems in CO, IA, IL, IN, KS, KY, MN, MO, MT, ND, NE, SD, TN, WI, and WY. Apply the tank mixtures as a split or single treatment in those states and as indicated in the **Sharda Metolachlor 84.4EC-D Alone - Pre-Plant Surface-Applied** section of the label for corn. On coarse soils, apply 1.33 pts./A of **Sharda Metolachlor 84.4EC-D** and 3.2 pts./A of AAtrex 4L or Princep 4L, or AAtrex 4L + Princep 4L combined.

Pre-Plant Incorporated or Pre-Emergence: Follow instructions for use of **Sharda Metolachlor 84.4EC-D** alone under **Application Instructions**. Apply **Sharda Metolachlor 84.4EC-D** in combination with AAtrex and using the appropriate rates from the **Sharda Metolachlor 84.4EC-D** + AAtrex or Princep, or **Sharda Metolachlor 84.4EC-D** + AAtrex + Princep table.

Restriction:

- Do not apply more than the specified labeled rate for a given soil texture per year, either as a split or single treatment.

Shattercane, Wild Proso Millet, Woolly Cupgrass and Eclipta - Partial Control

For more consistent partial control of shattercane, wild proso millet, wooly cupgrass and elipta where **Sharda Metolachlor 84.4EC-D** is applied in tank mixture or sequentially with other registered corn herbicides, apply 2.0 - 2.33 pts. per acre as a single application or make the following applications:

1. Apply 1.0 - 1.33 pts./A of **Sharda Metolachlor 84.4EC-D** + 2 lbs. a.i./A of AAtrex or Princep pre-plant incorporated, followed by 1.0 - 1.33 pts./A of **Sharda Metolachlor 84.4EC-D** pre-emergence. Make the pre-emergence application during or after planting, but before weeds and corn emerge.
2. Apply **Sharda Metolachlor 84.4EC-D** at 1.33 pts./A alone or in tank mix combination with up to 2 lbs. a.i./A of Aatrex or Princep, pre-plant incorporated. Do not exceed the total rate of triazine herbicide listed for corn grown on a given soil texture. Follow with a post-directed application of Evik® 80W at 2.5 lbs./A. Refer to the Evik 80W label for specific directions for the post-directed application.
3. Apply Eradicane® or Sutan® (or equivalent EPTC or butylate formulations) at labeled rates pre-plant incorporated, followed by a pre-emergence application of **Sharda Metolachlor 84.4EC-D** at 1.0 - 1.33 pts./A. Do not use Eradicane or Sutan on soils where rapid degradation has been shown to occur. Make the pre-emergence application during or after planting, but before weeds and corn emerge.

When following the application regimes in numbers 1-3 above, make a shallow cultivation after the pre-emergence or post-emergence application to control any late emerging shattercane or wild proso millet plants.

Sharda Metolachlor 84.4EC-D + AAtrex or Princep, or Sharda Metolachlor 84.4EC-D + AAtrex + Princep, Pre-Plant Incorporated or Pre-Emergence - Corn (All Types)

Do not use in muck or peat (soils with greater than 20% organic matter).

BROADCAST RATES PER ACRE				
SOIL TEXTURE	Less than 3% Organic matter		Greater than 3% Organic matter	
	Tank Mix: Sharda Metolachlor 84.4EC-D +			
	AAtrex Nine O or Princep Caliber 90*	AAtrex Nine O** or Princep Caliber 90**	AAtrex Nine O or Princep Caliber 90*	AAtrex Nine O** or Princep Caliber 90**
Coarse	0.85 - 1.0 pts. + 1.1-2.2 lbs.	0.85 - 1.0 pts. + 0.6 - 1.1 lbs. + 0.6 - 1.1 lbs.	1.0 pts. + 1.3 - 2.2 lbs.	1.0 pts. + 0.7 - 1.1 lbs. + 0.7 - 1.1 lbs.
Medium	1.0 - 1.33 pts. + 1.3-2.2 lbs.	1.0 - 1.33 pts. + 0.7 - 1.1 lbs. + 0.7 - 1.1 lbs.	1.33 pts. + 1.8 - 2.2 lbs.	1.33 pts. + 0.9 - 1.1 lbs. + 0.9 - 1.1 lbs.
Fine	1.33 pts. + 1.8 - 2.2 lbs.	1.33 pts. + 0.9 - 1.1 lbs. + 0.9 - 1.1 lbs.	1.33 - 1.67 pts. + 1.8 - 2.2 lbs.***	1.33 - 1.67 pts. + 0.9 - 1.1 lbs. + 0.9 - 1.1 lbs.

*Use Princep instead of AAtrex when heavy infestations of crabgrass or fall panicum are expected. On soils having between 6% and 20% organic matter, use up to 2.33 pts./A **Sharda Metolachlor 84.4EC-D** in tank mix combination with 2.2 lbs./A of AAtrex Nine-O, or equivalent rates of AAtrex 4L. Refer to the AAtrex label for weeds controlled at this reduced rate.

When using the tank mixture of **Sharda Metolachlor 84.4EC-D + AAtrex Nine-O + Princep Caliber 90, use equal rates of each as shown when heavy broadleaf weed infestations are expected. When heavy infestations of crabgrass or fall panicum are expected, use a 1:2 ratio of AAtrex + Princep instead of the 1:1 ratio given in the **Sharda Metolachlor 84.4EC-D + AAtrex or Princep, or Sharda Metolachlor 84.4EC-D + AAtrex + Princep, Pre-Plant Incorporated or Pre-Emergence - Corn (All Types)** table.

(Example: Total Aatrex Nine-O + Princep Caliber 90 = 1.2 lbs./A, use 0.4 lb. of AAtrex + 0.8 lb. of Princep, respectively.)

***For cocklebur, yellow nutsedge, and velvetleaf control on *fine-textured soils* above 3% organic matter, apply 2.25 lbs./A of AAtrex Nine-O, or equivalent rates of AAtrex 4L, or the same total amount of AAtrex + Princep with 1.33 - 1.67 pts./A of **Sharda Metolachlor 84.4EC-D**.

Tank Mixture with AAtrex - Post-Emergence

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

Coarse soils: Apply 1.0 pts./A of **Sharda Metolachlor 84.4EC-D** + 1.3 lbs./A of AAtrex Nine-O*.

Medium soils: 1.33 pts./A of **Sharda Metolachlor 84.4EC-D** + 1.8 lbs./A of AAtrex Nine-O.

Fine soils: 1.33 - 1.67 pts./A of **Sharda Metolachlor 84.4EC-D** + 1.8 - 2.2 lbs./A** of AAtrex Nine-O. Apply this tank mixture before grass and broadleaf weeds pass the 2-leaf stage and before corn exceeds 5" tall. Application to weeds larger than the 2-leaf stage will generally result in unsatisfactory control.

*When using AAtrex 4L, use equivalent rates. One lb. of AAtrex Nine-O equals 1.8 pts. of AAtrex 4L.

For better control of cocklebur, morningglory, velvetleaf, and yellow nutsedge on fine-textured soils above 3% organic matter, apply 2.2 lbs./A of AAtrex Nine-O, or equivalent rate of AAtrex 4L, with 1.33 - 1.67 pts./A of **Sharda Metolachlor 84.4EC-D.

Lay-by Applications:

Apply to corn plants less than 12" tall. Direct applications to corn in >5" tall to the base of the corn plants. Apply over the top to corn plants <5" tall. Corn leaf burn can occur, but won't impact growth or yield.

Tank mixtures of **Sharda Metolachlor 84.4EC-D** + AAtrex can be applied following application of any registered pre-plant surface applied, pre-plant incorporated, or pre-emergence corn herbicide, including **Sharda Metolachlor 84.4EC-D** + AAtrex.

Restrictions:

- Do not exceed 4 pints of **Sharda Metolachlor 84.4EC-D**.
- Do not exceed 2.5 lbs. a.i./A AAtrex during any one crop year.
- Refer to the AAtrex label for geographic, soil-texture, and rotational restrictions.

Tank Mixture with Banvel

Pre-Emergence: Use this tank mixture only on field corn which is flat-planted (no furrows) in CO, IA, IL, IN, KS, MN, NE, OH, SD, and WI. In addition to the weeds controlled by **Sharda Metolachlor 84.4EC-D** alone, **Sharda Metolachlor 84.4EC-D** + Banvel, applied pre-emergence controls lambsquarters, ragweed, smartweed, and partially controls cocklebur, jimsonweed, morningglory, and velvetleaf.

Apply **Sharda Metolachlor 84.4EC-D** + Banvel Pre-Emergence.

Medium soils: Broadcast 1 pt./A of Banvel with 1.33 pts./A of **Sharda Metolachlor 84.4EC-D**.

Fine soils: 1.33 - 1.67 pts./A of **Sharda Metolachlor 84.4EC-D** tank mixture to the soil surface at planting or after planting, but before corn emerges. Plant corn at least 1½" deep and apply behind planting equipment, avoiding incorporation by the planter wheel or other seed covering device.

Coarse soils: Do not apply.

Restrictions:

- Do not allow **Sharda Metolachlor 84.4EC-D** to drift to non-target plants such as soybeans during application.
- Do not apply with aircraft.
- If it is necessary to rotary hoe to break the soil crust, do not disturb the soil more than ½" deep.
- Do not incorporate before corn emerges.

Post-Emergence for Control of Pigweed (Mid-Atlantic states, including DE, MD, PA, VA, and WV):

Apply 1.0 - 1.5 pts. of **Sharda Metolachlor 84.4EC-D** + 0.5 - 1 pt./A of Banvel by ground equipment when pigweed plants are <3" tall and before corn >5" tall in a minimum of 20 gals. Of spray per acre. Use the lower rate within the specified rate range on coarse-textured and low organic matter soils. Use the higher rate within the specified rate range on fine textured and high organic matter soils.

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

Restrictions:

- Do not allow **Sharda Metolachlor 84.4EC-D** to drift to non-target plants such as soybeans during application.
- Do not apply with aircraft.

Tank Mixture with AAtrex and Lorox to Control of Lambsquarters and Pigweed

For prolonged control of lambsquarters and pigweed in DE, MD, NJ, NY, PA, VA, and WV, apply **Sharda Metolachlor 84.4EC-D** pre-emergence in tank mix combination with AAtrex + Lorox. Apply **Sharda Metolachlor 84.4EC-D** and AAtrex according to the rates specified in the **Sharda Metolachlor 84.4EC-D + AAtrex or Princep, or Sharda Metolachlor 84.4EC-D + AAtrex + Princep, Pre-Plant Incorporated or Pre-Emergence - Corn (All Types)** table and Lorox according to the following rates:

SOIL TEXTURE & BROADCAST RATE PER ACRE:

Sandy loam (1 - 3% organic matter): 0.67 lb./A Lorox

Sandy loam (3 - 6% organic matter): 1.0 lb./A Lorox

Medium- and fine-textured soils (1-6% organic matter): 1.0 lb./A Lorox

Observe all directions for use, restrictions, precautions, and limitations on the **Sharda Metolachlor 84.4EC-D**, AAtrex, and Lorox labels when applying these products in tank mix combinations.

Tank Mixture with AAtrex or Princep + Prowl for Prolonged Control of Lambsquarters and Pigweed in Field Corn Only (Northeast U.S., including MI, IN, KY, and States East of These)

For prolonged control of lambsquarters, pigweed, and other annual broadleaf and grass weeds, apply **Sharda Metolachlor 84.4EC-D** in tank mix combination with AAtrex* or Princep + Prowl 4E after planting but before corn or weeds emerge. Apply using ground equipment in a minimum of 10 gals. water or 20 gals. liquid fertilizer. Apply by air in a minimum of 5 gals. water. Refer to the **Sharda Metolachlor 84.4EC-D + AAtrex or Princep, or Sharda Metolachlor 84.4EC-D + AAtrex + Princep, Pre-Plant Incorporated or Pre-Emergence - Corn (All Types)** table for rates of **Sharda Metolachlor 84.4EC-D**, AAtrex, or Princep to be applied. Apply Prowl 4E according to the following rates in the **Prowl 4E - Broadcast Rates Per Acre** table.

Restriction:

- Do not apply **Sharda Metolachlor 84.4EC-D** in tank mix combination with AAtrex 80W + Prowl, as this combination is incompatible. Other AAtrex formulations may be used.

Prowl 4E - Broadcast Rates Per Acre

Percent Organic Matter in Soil	Coarse Soil	Medium Soil	Fine Soil
<1.5%	1.5 - 2.0 pts.	2.0 pts.	2.0 pts.
1.5 - 3%	2.0 pts.	3.0 pts.	3.0 pts.
>3%	3.0 pts.	3.0 pts.	3.0 pts.

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

Tank Mixture with AAtrex* or Princep, AAtrex + Princep, with Gramoxone Extra, Landmaster BW, or Roundup for Minimum-Tillage or No-Tillage Systems

In minimum-tillage or no-tillage systems where corn is planted directly into a cover crop, stale seedbed, established sod, or previous crop residues, the contact herbicides Gramoxone Extra, Landmaster BW, or Roundup may be added to a tank mix of **Sharda Metolachlor 84.4EC-D + AAtrex or Princep, or Sharda Metolachlor 84.4EC-D + AAtrex + Princep**. The **Sharda Metolachlor 84.4EC-D + AAtrex or Princep, or Sharda Metolachlor 84.4EC-D + AAtrex + Princep** portion of the tank mixture provides pre-emergence control of the weeds listed on this label in the tank mixture section for **Sharda Metolachlor 84.4EC-D + AAtrex or Princep, or Sharda Metolachlor 84.4EC-D + AAtrex + Princep - Pre-Plant Surface, Pre-Plant Incorporated, or Pre-Emergence**.

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

Gramoxone Extra: 1.5 - 2.0, 2.0 - 2.5, or 2.5 - 3.0 pts./A to 1 - 3 inches, 3 - 6 inches, or 6-inch tall weeds, respectively. Apply surfactant at 1 or 2 pts./100 gals. of spray mixture with 75% or greater or 50 - 74% nonionic active ingredient, respectively. This treatment will not control weeds greater than 6" tall.

Restriction:

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

Landmaster BW: 27 - 54 oz./A depending on weed species and size. See the Landmaster BW label for weeds controlled, rates for specific weeds, and other information concerning use.

Roundup: See the Roundup or Roundup RT label for weeds controlled, rates, and other use directions. Apply in 20 - 60 gals. of water or fluid fertilizer per acre with ground equipment.

Coarse soils: Apply 1.0 pts./A of **Sharda Metolachlor 84.4EC-D** with 1.3 lbs. of AAtrex Nine-O* or Princep Caliber 90*, or with 0.7 lb. of AAtrex Nine-O** + 0.7 lb. of Princep Caliber 90**.

Medium soils: Apply 1.33 pts./A of **Sharda Metolachlor 84.4EC-D** with 1.8 lbs. of AAtrex Nine-O or Princep Caliber 90, or with 0.9 lb. of AAtrex Nine-O + 0.9 lb. of Princep Caliber 90.

Fine soils*:** Apply 1.33 - 1.67 pts./A of **Sharda Metolachlor 84.4EC-D** with 1.8-2.2 lbs. of AAtrex Nine-O or Princep Caliber 90, or with 0.9 - 1.1 lbs. of AAtrex Nine-O + 0.9 - 1.1 lbs. of Princep Caliber 90.

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

When using the tank mixture of **Sharda Metolachlor 84.4EC-D + AAtrex Nine-O + Princep Caliber 90, use equal rates of AAtrex and Princep as shown when heavy broadleaf weed infestations are expected. When heavy infestations of crabgrass or fall panicum are expected, use a 1:2 ratio of AAtrex + Princep instead of the 1:1 ratio given.

(Example: Total AAtrex Nine-O + Princep Caliber 90 = 1.8 lbs./A, use 0.6 lb. of AAtrex + 1.2 lbs. of Princep, respectively.)

***For cocklebur, yellow nutsedge, and velvetleaf control on *fine-textured soils* above 3% organic matter, apply 2.25 lbs./A of AAtrex Nine-O, or equivalent rate of AAtrex 4L, or the same total amount of AAtrex + Princep, with 1.33 - 1.67 pts./A of **Sharda Metolachlor 84.4EC-D**.

Tank Mixture with AAtrex; or AAtrex + 2,4-D; or AAtrex + 2,4-D + Banvel for Minimum-Tillage or No-Tillage Systems

In minimum-tillage or no-tillage systems where corn is planted directly into a cover crop, stale seedbed, established sod, or previous crop residues, applying **Sharda Metolachlor 84.4EC-D** in combination with AAtrex will kill most emerged small annual weeds. Apply **Sharda Metolachlor 84.4EC-D + AAtrex** before, during, or after planting, but before corn emerges, according to the rates in the **Sharda Metolachlor 84.4EC-D + AAtrex or Princep, or Sharda Metolachlor 84.4EC-D + AAtrex + Princep, Pre-Plant Incorporated or Pre-Emergence - Corn (All Types)** table.

Where heavy crop residues exist, add 0.8 - 1.6 pts./A of an appropriately labeled 3.8 lbs. a.i./gal. 2,4-D amine (such as Weedar 64, Weedar 64A, DMA-4 Herbicide, or Formula 40) to the spray tank last and apply in a minimum of 25 gals. carrier per acre.

As carriers, nitrogen solutions and complete liquid fertilizers, applied before corn emergence, enhance burndown of existing weeds, and therefore, are recommended instead of water. Add X-77 surfactant at 1.0 - 2.0 qts./100 gals. of diluted spray, or another appropriate surfactant at its labeled rate, or add crop oil concentrate plus 28% liquid nitrogen (or equivalent). Apply before weeds exceed 3" tall. If alfalfa is present, add Banvel to the spray mixture at 0.33 - 0.5 pt./A and apply before alfalfa exceeds 6" tall.

For fields with existing sod grasses (e.g., bromegrass, orchardgrass, rye, or timothy), when existing weeds exceed 3" tall or when very dry conditions exist, add Gramoxone Extra at the rate of 1.67 pts./A in place of or in addition to 2,4-D, as indicated above. Do not apply Gramoxone Extra in suspension-type liquid fertilizer. Observe all directions for use, restrictions, precautions, and limitations on the respective product labels when applying these products in tank mix combination.

Tank Mixture with Marksman in Conservation Tillage - Field and Silage Corn

In conservation tillage systems where corn is planted directly into a cover crop or previous crop residue, **Sharda Metolachlor 84.4EC-D + Marksman** will kill most emerged small annual weeds. Apply **Sharda Metolachlor 84.4EC-D + Marksman** before, during, or after planting, but before corn emergence on medium and fine soils with greater than 2.5% organic matter. For fields with existing vegetation exceeding 3" tall or when very dry conditions exist, add Gramoxone Extra at its standard rate. Apply **Sharda Metolachlor 84.4EC-D + Marksman** post-emergence to corn <3" tall and before weedy grasses exceed the 2-leaf stage.

As carriers, nitrogen solutions and complete liquid fertilizers, applied before corn emergence, enhance burndown of existing weeds.

Restriction:

- Do not apply Gramoxone Extra in suspension-type liquid fertilizer or use on emerged corn. Refer to the Marksman label and follow all directions, limitations, restrictions, precautions, and instructions regarding application and use in corn.

Tank Mixture with Broadstrike® + Sharda Metolachlor 84.4EC-D

For pre-plant surface, pre-plant incorporated, or pre-emergence application where severe grass populations are expected on medium- or fine-textured soils with relatively high organic matter content, Broadstrike + **Sharda Metolachlor 84.4EC-D** may be spiked with **Sharda Metolachlor 84.4EC-D** for optimum performance. Refer to the Broadstrike + **Sharda Metolachlor 84.4EC-D** label for its use rate and the amount of metolachlor active ingredient it contains. **Sharda Metolachlor 84.4EC-D** may be added up to, but not to exceed, the maximum alone **Sharda Metolachlor 84.4EC-D** label rate for the soil classification. Refer to the respective labels and follow all directions, limitations, and restrictions for each product.

STORAGE AND DISPOSAL

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

Pesticide Storage: Keep from freezing: DO NOT store below 32°F.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA region office for guidance.

Container Handling:

NONREFILLABLE CONTAINER (EQUAL TO OR LESS THAN 5 GALLONS): Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling, if available.

NONREFILLABLE CONTAINER (GREATER THAN 5 GALLONS): Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring

at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Offer for recycling, if available.

REFILLABLE CONTAINER: Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

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NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

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