OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

May 8, 2025

Stefani Garufi
stefanie.garufi@syntechresearch.com
SHARDA USA LLC
Sharda USA LLC c/o Wagner Regulatory Associates, Inc. P.O. Box 640
Hockessin DE, 19707

Subject: Non-PRIA (Pesticide Registration Improvement Act) Labeling Amendment - Label Amendment to Revise Tank Mixing and QR Code
Product Name: Sharda Metolachlor 84.4EC-D
Admin Number: 83529-57
EPA Receipt Date: 03/01/2024
Action Case Number: 00502234

Dear Stefani Garufi:

The amended labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable.

This approval does not affect any terms or conditions that were previously imposed on this registration. You continue to be subject to existing terms or conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release this product for shipment with the new labeling. In accordance with 40 CFR § 152.130(c), you may distribute or sell this product under the previously approved labeling for 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.

Should you wish to add/retain a reference to your company’s website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the 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 EPA find or if it is brought to our attention that a website contains statements or claims substantially differing from statements or claims made in connection with obtaining a FIFRA section 3 registration, the website will be referred to the EPA’s Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6.

If you have questions, please contact Andrés Garzón via email at garzonmoreno.andres@epa.gov.

Sincerely,

Kable Bo Davis

Kable Bo Davis, Senior Advisor
HB, RD
Office of Pesticide Programs

METOLACHLOR	GROUP	15	HERBICIDE

[Master Label]

Sharda Metolachlor 84.4EC-D

ABN: Meto-S

ABN: Metalica

Herbicide for use in corn, cotton, peanuts, pod crops, potatoes, safflower, sorghum (grain or forage), and soybeans

ACTIVE INGREDIENT:	**WT. BY %**
Metolachlor: 2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl) acetamide.....	84.4%
OTHER INGREDIENTS:	15.6%
TOTAL:	**100.0%**

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:	• Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for treatment advice.
IF ON SKIN OR CLOTHING:	• Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 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 15-20 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:	• 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.

[Optional referral statements when booklets and container labels are used:]
[See label booklet for [complete] [additional] [First Aid,] [Precautionary Statements,] [Directions For Use,] and [Storage and Disposal.]]

EPA Reg. No. 83529-57 **EPA Est. No. XXXXX-XX-XXX**

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

Net Contents: _____

ACCEPTED
05/08/2025
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 wash waters or rinsate.

Ground Water Advisory

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

Surface Water Advisory

This product may impact surface water quality due to runoff of rainwater. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having high potential for reaching surface water via runoff for several weeks or months after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of metolachlor/S-metolachlor from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours.

Non-Target Organism Advisory

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

Reporting Ecological Incidents

To report ecological incidents, including mortality, injury, or harm to plants and animals, contact Sharda USA, LLC at 302-635-7632.

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 rainwater 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.

Endangered Species Protection Requirements

It is a Federal offense to use any pesticide in a manner that results in an unauthorized "take" (e.g., kill or otherwise harm) of an endangered species and certain threatened species, under the Endangered Species Act section 9. When using this product, you must follow the measures contained in the Endangered Species Protection Bulletin for the area in which you are applying the product. You must obtain a Bulletin no earlier than 6 months before using this product. To obtain Bulletins, consult http://www.epa.gov/espp/, call 1-844-447-3813, or email ESPP@epa.gov. You must use the Bulletin valid for the month in which you will apply the product.

DO NOT apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation. This labeling must be in the possession of the user at the time of pesticide application.

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.

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

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, cotton, peanuts, pod crops, potatoes, safflower, grain or forage sorghum, and soybeans. Post-emergence applications of **Sharda Metolachlor 84.4EC-D** can be made on corn and soybeans.

RESISTANCE MANAGEMENT

Sharda Metolachlor 84.4EC-D contains metolachlor which is classified as a Group 15 herbicide. Herbicide resistance is defined as the inherited ability of a plant to survive and reproduce following exposure to a dose of herbicide normally lethal to the wild type. In a plant, resistance may be naturally occurring or induced by such techniques as genetic engineering or selection of variants produced by tissue culture or mutagenesis. Any weed population may contain or develop plants that are naturally resistant to **Sharda Metolachlor 84.4EC-D** and other Group 15 herbicides. Weed species with acquired resistance to Group 15 herbicides may eventually dominate the weed population if Group 15 herbicides are used repeatedly in the same field or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by **Sharda Metolachlor 84.4EC-D** or other Group 15 herbicides.

To delay herbicide resistance, consider the below best practices for resistance management:

- Plant into weed-free fields and keep fields as weed-free as possible.
- To the extent possible, use a diversified approach toward weed management. Whenever possible, incorporate multiple weed-control practices such as mechanical cultivation, biological management practices, and crop rotation.
- Fields with difficult to control weeds should be rotated to crops that allow the use of herbicides with alternative mechanisms of action or different management practices.
- To the extent possible, DO NOT allow weed escapes to produce seeds, roots, or tubers. Manage weed seeds at harvest and post-harvest to prevent a buildup of the weed seed-bank.
- Prevent field-to-field and within-field movement of weed seed or vegetative propagules. Thoroughly clean plant residues from equipment before leaving fields.
- Prevent an influx of weeds into the field by managing field borders.
- Identify weeds present in the field through scouting and field history and understand their biology. The weed-control program should consider all of the weeds present.
- Difficult to control weeds may require sequential applications of herbicides with differing mechanisms of action.
- Apply this herbicide at the correct timing and rate needed to control the most difficult weed in the field.
- Use a broad-spectrum soil-applied herbicide with a mechanism of action that differs from this product as a foundation in a weed-control program. DO NOT use more than two applications of this or any other herbicide with the same mechanism of action within a single growing season unless mixed with an herbicide with another mechanism of action with an overlapping spectrum for the difficult-to-control weeds.
- If resistance is suspected, treat weed escapes with an herbicide with a different MOA or use non-chemical methods to remove escapes.
- Monitor treated weed populations for loss of field efficacy.
- Scout field(s) before and after application.
- Report lack of performance to Sharda USA LLC or their representative.

Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species.

Contact your local sales representative, extension agent, or certified crop advisors to find out if suspected resistant weeds to this MOA have been found in your region. If resistant biotypes of target weeds have been reported, use the application rates of this product specified for your local conditions. Tank mix products so that there are multiple effective mechanisms of action for each target weed.

MANDATORY SPRAY DRIFT MANAGEMENT

Aerial Applications:

- **DO NOT** release spray at a height greater than 10 ft. above the ground or vegetative canopy, unless a greater application height is necessary for pilot safety.
- Applicators are required to select the nozzle and pressure that deliver medium or coarser droplets (ASABE S641).
- If the wind speed is 10 miles per hour or less, applicators must use ½ swath displacement upwind at the downwind edge of the field. When the wind speed is between 11-15 miles per hour, applicators must use ¾ swath displacement upwind at the downwind edge of the field.
- **DO NOT** apply when wind speeds exceed 15 mph at the application site. If the wind speed is greater than 10 mph, the boom length must be 65% or less of the wingspan for fixed wing aircraft and 75% or less of the rotor diameter for helicopters. Otherwise, the boom length must be 75% or less of the wingspan for fixed-wing aircraft and 90% or less of the rotor diameter for helicopters.
- **DO NOT** apply during temperature inversions.

Ground Boom Applications:

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

Boomless Ground Applications:

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

SPRAY DRIFT ADVISORIES

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT. BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

IMPORTANCE OF DROPLET SIZE

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

Controlling Droplet Size – Ground Boom

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

Controlling Droplet Size – Aircraft

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

BOOM HEIGHT – Ground Boom

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

RELEASE HEIGHT – Aircraft

Higher release heights increase the potential for spray drift.

SHIELDED SPRAYERS

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

TEMPERATURE AND HUMIDITY

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

TEMPERATURE INVERSIONS

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

WIND

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS. Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

Boomless Ground Applications

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

Handheld Technology Applications

Take precautions to minimize spray drift.

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 ½ - ¾ 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 ¼ full with water, and begin agitation.
- Add 2,4-D, Atrazine, Benfluralin, Dicamba DMA, Dicamba potassium salt, Metribuzin, Chlorimuron, Metribuzin + chlorimuron-ethyl, Prometryn, Clomazone, Flumeturon, Carbamothioic acid, dipropyl-, S-ethyl ester, Prodiamine + IsoxabenProdiamine, Isoxaben, Metribuzin, Linuron, Dicamba + Atrazine, MSMA, Metribuzin + Sulfentrazone, Sulfentrazone, Simazine, Pendimethalin, Imazethapyr, Imazaquin, , Ethalfluralin, or Trufluralin, ensuring products disperse.
- Add **Sharda Metolachlor 84.4EC-D**.
- Add Paraquat, 2,4-D, isopropylamine salt, Glyphosate-isopropylammonium Glyphosate, or Glyphosate isopropylamine salt if these products are being used.
- Add the rest of the water.

For tank mixtures with 2,4-D, Atrazine, Benfluralin, Dicamba DMA, Dicamba potassium salt, Metribuzin, Chlorimuron, Prometryn, Clomazone, Flumeturon, Carbamothioic acid, dipropyl-, S-ethyl ester, Prodiamine, Isoxaben, Metribuzin, Linuron, MSMA, Sulfentrazone, Simazine, Pendimethalin, Imazethapyr, Imazaquin, Ethafluralin, or Trufluralin, Linuron Dicamba + Atrazine, Metribuzin liquid fertilizers can replace all or part of the water as carrier, except for Atrazine post-emergence and Dicamba post-emergence tank mixes. For tank mixtures with Atrazine, refer to the Atrazine 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 Flumeturon, and with Atrazine or Simazine + Pendimethalin 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 ¼ tsp. (1.2 milliliters) of a compatibility agent approved for this use (¼ 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.

For **Sharda Metolachlor 84.4EC-D** tank mixtures with Atrazine + Simazine use ⅓ - ½ the amount of Atrazine specified and the remainder as Simazine, depending on whether the 1:2 or 1:1 ratio of Atrazine to Simazine is to be applied.

4. After adding all ingredients, put lids on and tighten, and invert each jar 10 times to mix.
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 ½ of the compatibility agent to the fertilizer, and the other ½ 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 ⅔ the specified broadcast rate for the crop and soil texture applied initially and the remaining ⅓ 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, Paraquat or Glyphosate). 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: For corn, cotton, and soybean application: 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, pod crops, and soybeans 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 or soybeans in 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:

band width in inches / row width in inches	x	broadcast rate per acre	=	amount needed per acre of field

Low Carrier Volumes: Broadcast Ground Application Only
Use sprayers, such as Ag-Chem RoGator®, Hagie, John Deere Hi-Cycle™, Melroe Spra-Coupe, Tyler Patriot™, or Willmar Air Ride®, that provide accurate and uniform application. **Only water may be used as a carrier.** Screens in suction and in-line strainers 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.

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 Atrazine, Linuron, or Metribuzin in a minimum volume of 2 gals./A. Aerial applications of **Sharda Metolachlor 84.4EC-D** can also be made with Benfluralin, Pendimethalin, or Trifluralin. **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 AND RESTRICTIONS:**
- 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 ¾ 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.

To avoid injury to sensitive crops:
- Apply **Sharda Metolachlor 84.4EC-D** alone or in tank mix with Atrazine a minimum of 400 feet from sensitive plants.
- Apply **Sharda Metolachlor 84.4EC-D** + Metribuzin or Linuron 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**.

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® or Celatom MP-79® (granular absorbents, not an EPA-registered product), 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**, Atrazine + Simazine or Metribuzin, or Ethalfluralin using the following formula:

2,000 lbs. fertilizer/acre X pts./A liquid/flowable product = pints of liquid/flowable product per ton of fertilizer

2,000 lbs. of fertilizer/acre X lbs./A dry product = 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 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 Atrazine formulations, follow the rates, instructions, and limitations on the Atrazine product label.

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	Shattercane∫
Bristly foxtail	Galinsoga	Signalgrass (*Brachiaria*)
Carpetweed	Giant foxtail	Southwestern cupgrass
Common purslane∫	Goosegrass	Tall waterhemp
Common waterhemp	Green foxtail	Texas panicum∫
Crabgrass	Hairy nightshade∫	Volunteer sorghum∫
Crowfootgrass	Pigweed	Wild proso millet*
Eastern black nightshade	Prairie cupgrass	Witchgrass
Eclipta∫	Red rice	Woolly cupgrass*
Fall panicum	Robust foxtails (purple, white)	Yellow foxtail
Florida beggarweed∫	Sandbur∫	Yellow nutsedge

Florida pusley	Seedling johnsongrass[f]	

[f]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.

Restriction:

- **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.

Early Pre-Plant Application:
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 ⅔ 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., Atrazine, Primisulfuron-methyl, Atrazine + S-metolachlor, Primisulfuron-methyl + Prosulfuron, Nicosulfuron, Dicamba, potassium salt, Bentazon, bromoxynil, 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 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 Restriction:

- **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 Primisulfuron-methyl or 1 packet per 4 acres Primisulfuron-methyl + Prosulfuron plus Nicosulfuron 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., Atrazine, Primisulfuron-methyl, Atrazine + S-metolachlor, Primisulfuron-methyl + Prosulfuron, Nicosulfuron, Dicamba, potassium salt, Bentazon, Bromoxynil, 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 Atrazine in tank-mix combination with Bromoxynil post-emergence.
- Refer to the Atrazine and Bromoxynil 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.

Bromoxynil may be applied post-emergence alone or in tank-mix combination with Atrazine. Refer to the Atrazine and/or Bromoxynil 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** + Atrazine post-emergence and **Sharda Metolachlor 84.4EC-D** + Dicamba, potassium salt post-emergence) may be applied in water or fluid fertilizer. Use only water in the **Sharda Metolachlor 84.4EC-D** + Atrazine or the **Sharda Metolachlor 84.4EC-D** + Dicamba, potassium salt post-emergence tank mixes.

Restriction:
- **DO NOT** graze or feed forage from treated areas for 30 days following application.

FOR TANK MIXTURES WITH ATRAZINE:
All the restrictions and rate limitations on the Atrazine label must be followed if more restrictive/protective than those on this label. In addition, if Atrazine is/must be applied at rates lower than those listed on this label, broadleaf weed control may be affected. Refer to the Atrazine label for weeds controlled at the reduced rates. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

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**
Atrazine and/or Simazine (Pre-Plant Surface, PPI, PRE)	**Controls:** Browntop panicum, Cocklebur, Common purslane, Hairy nightshade, Lambsquarters, Morningglory, Ragweed, Smartweed, Velvetleaf	
Atrazine (Post)	**Controls:** Kochia, Lambsquarters, Mustard, Prickly sida, Ragweed, Smartweed, Velvetleaf **Partially controls:** Cocklebur, Jimsonweed, Morningglory	
Dicamba, potassium salt (Field Corn)	**Controls:** Lambsquarters, Ragweed, Smartweed **Partially controls:** Cocklebur, Jimsonweed, Morningglory, Velvetleaf	
Atrazine + Linuron	**Controls:** Browntop panicum, Cocklebur, Common purslane, Hairy nightshade, Lambsquarters, Morningglory, Pigweed, Ragweed, Smartweed, Velvetleaf	
Atrazine or Simazine + Pendimethalin	**Controls:** Browntop panicum, Cocklebur, Common purslane, Hairy nightshade, Lambsquarters, Morningglory, Pigweed, Ragweed, Smartweed, Velvetleaf	
Atrazine + Dicamba, potassium salt	**Controls:** Cocklebur, Common purslane, Hairy nightshade, Jimsonweed, Kochia, Lambsquarters, Morningglory, Mustard, Pigweed, Prickly sida, Ragweed, Smartweed, Velvetleaf	
Flumetsulam + Sharda Metolachlor 86.4EC	**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 + Atrazine or Simazine and Pendimethalin:
- Although a single formulation for Atrazine or Simazine is listed in the rate tables, other formulations may be substituted, using the following formula: 1 lb. of Atrazine or Simazine = 1.8 pts. of Atrazine or Simazine.
- 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.
- Add the Atrazine or Simazine and allow it to become dispersed.
- Add **Sharda Metolachlor 84.4EC-D** and Pendimethalin.

- Add the rest of the water.

Additional Atrazine Instructions:

- Although directions specify Atrazine 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 Atrazine label.
- Refer to the **Sharda Metolachlor 84.4EC-D** Combinations for Corn - Tank Mixture with Atrazine; or Atrazine + 2,4-D; or Atrazine + 2,4-D + Dicamba, potassium salt for Minimum-Tillage or No-Tillage Systems sections for specific directions for 2,4-D or Dicamba, potassium salt 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.

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

In minimum-tillage and no-tillage systems, mix with Paraquat for control of most emerged annual weeds and suppression of perennial weeds; or with Glyphosate for suppression of emerged field bindweed and control or suppression of annual weeds; or with Glyphosate for control of most emerged annual and perennial weeds.

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 Atrazine, **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 Atrazine or Simazine, or Atrazine + Simazine - 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** + Atrazine or Simazine, or **Sharda Metolachlor 84.4EC-D** + Atrazine + Simazine, 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** + Atrazine or Simazine, or **Sharda Metolachlor 84.4EC-D** + Atrazine + Simazine 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** + Atrazine or **Simazine**, or **Sharda Metolachlor 84.4EC-D** + Atrazine + **Simazine** on medium soils (1.67 pts./A of **Sharda Metolachlor 84.4EC-D** + 3.2 - 4 pts./A of Atrazine or **Simazine**, or Atrazine + **Simazine** combined) and on fine soils (1.67 - 2.0 pts./A of **Sharda Metolachlor 84.4EC-D** + 4 - 5 pts./A of Atrazine or **Simazine**, or Atrazine + **Simazine** 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 Atrazine or Simazine, or Atrazine + Simazine 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 Atrazine and using the appropriate rates from the **Sharda Metolachlor 84.4EC-D + Atrazine or Simazine, or Sharda Metolachlor 84.4EC-D + Atrazine + Simazine** 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, Wooly Cupgrass, and Eclipta - Partial Control
For more consistent partial control of shattercane, wild proso millet, wooly cupgrass and eclipta 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 Atrazine or Simazine 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 Atrazine or Simazine, 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 Ametryn at 2.5 lbs./A. Refer to the Ametryn label for specific directions for the post-directed application.
3. Apply Carbamothioic acid, dipropyl-, S-ethyl ester or Cyflumetofen (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 Carbamothioic acid, dipropyl-, S-ethyl ester or Cyflumetofen 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 + Atrazine or Simazine, or Sharda Metolachlor 84.4EC-D + Atrazine + Simazine, 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 +			
	Atrazine or Simazine *	**Atrazine** or **Simazine****	**Atrazine or Simazine ***	**Atrazine ** or Simazine ****
Coarse	0.85 - 1.0 pt. + 1.1 - 2.2 lbs.	0.85 - 1.0 pt. + 0.6 - 1.1 lbs. + 0.6 - 1.1 lbs.	1.0 pt. + 1.3 - 2.2 lbs.	1.0 pt. + 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 **Simazine** instead of Atrazine 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 equivalent rates of Atrazine. Refer to the Atrazine label for weeds controlled at this reduced rate.

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

(*Example*: Total Atrazine + **Simazine** = 1.2 lbs./A, use 0.4 lb. of Atrazine + 0.8 lb. of Simazine, respectively.)

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

Tank Mixture with Atrazine - 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 pt./A of **Sharda Metolachlor 84.4EC-D** + 1.3 lbs./A of Atrazine ***.**
Medium soils: 1.33 pts./A of **Sharda Metolachlor 84.4EC-D** + 1.8 lbs./A of Atrazine.

Fine soils: 1.33 - 1.67 pts./A of **Sharda Metolachlor 84.4EC-D** + 1.8 - 2.2 lbs./A****** of Atrazine. 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 Atrazine, use equivalent rates.
******For better control of cocklebur, morningglory, velvetleaf, and yellow nutsedge on fine-textured soils above 3% organic matter, apply 2.2 lbs./A of equivalent rate of Atrazine, 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** + Atrazine 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** + Atrazine.

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

Tank Mixture with Dicamba, potassium salt
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** + Dicamba, potassium salt, applied pre-emergence controls lambsquarters, ragweed, smartweed, and partially controls cocklebur, jimsonweed, morningglory, and velvetleaf.

Apply **Sharda Metolachlor 84.4EC-D** + Dicamba, potassium salt Pre-Emergence.

Medium soils: Broadcast 1 pt./A of Dicamba, potassium salt 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 Dicamba, potassium salt by ground equipment when pigweed plants are <3" tall and before corn is >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.

Dicamba, potassium salt and 2,4-Imidazolidinedione, 1-bromo-3-chloro-5,5-dimethyl 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 Atrazine and Linuron 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 Atrazine + **Linuron**. Apply **Sharda Metolachlor 84.4EC-D** and Atrazine according to the rates specified in the **Sharda Metolachlor 84.4EC-D** + Atrazine or Simazine, or **Sharda Metolachlor 84.4EC-D** + Atrazine + Simazine, Pre-Plant Incorporated or Pre-Emergence - Corn (All Types) table and Linuron according to the following rates:

SOIL TEXTURE AND BROADCAST RATE PER ACRE:
Sandy loam (1 - 3% organic matter): 0.67 lb./A Linuron
Sandy loam (3 - 6% organic matter): 1.0 lb./A Linuron
Medium- and fine-textured soils (1-6% organic matter): 1.0 lb./A Linuron

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

Tank Mixture with Atrazine or Simazine + Pendamethlin 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 Atrazine***** or Simazine + Pendimethalin and Bromacil 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** + Atrazine or Simazine, or **Sharda Metolachlor 84.4EC-D** + Atrazine + Simazine, Pre-Plant Incorporated or Pre-Emergence - Corn (All Types) table for rates of **Sharda Metolachlor 84.4EC-D**, Atrazine, or Simazine to be applied. Apply Pendimethalin and Bromacil according to the following rates in the Pendimethalin and Bromacil - Broadcast Rates Per Acre table.

Restriction:

- **DO NOT** apply **Sharda Metolachlor 84.4EC-D** in tank mix combination with Atrazine 80W + Pendimethalin, as this combination is incompatible. Other Atrazine formulations may be used.

Pendimethalin and Bromacil - 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 Pendimethalin and Bromacil label for replanting instructions in the event of crop loss.

Tank Mixture with Atrazine* or Simazine, Atrazine + Simazine, with Paraquat, or Glyphosate 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 Paraquat, Glyphosate, or Glyphosate may be added to a tank mix of **Sharda Metolachlor 84.4EC-D** + Atrazine or Simazine, or **Sharda Metolachlor 84.4EC-D** + Atrazine + Simazine. The **Sharda Metolachlor 84.4EC-D** + Atrazine or **Simazine**, or **Sharda Metolachlor 84.4EC-D** + Atrazine + Simazine 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 + Atrazine or Simazine, or Sharda Metolachlor 84.4EC-D** + Atrazine + Simazine - 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 Paraquat, Glyphosate, or Glyphosate at the following broadcast rates:

Paraquat: 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 Paraquat in suspension-type liquid fertilizers because the activity of paraquat will be reduced.

Glyphosate: 27 - 54 oz./A depending on weed species and size. See the Glyphosate label for weeds controlled, rates for specific weeds, and other information concerning use.
Glyphosate: See the Glyphosate 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 pt./A of **Sharda Metolachlor 84.4EC-D** with 1.3 lbs. of Atrazine* or Simazine*, or with 0.7 lb. of Atrazine****** + 0.7 lb. of **Simazine****.
Medium soils: Apply 1.33 pts./A of **Sharda Metolachlor 84.4EC-D** with 1.8 lbs. of Atrazine or Simazine, or with 0.9 lb. of Atrazine + 0.9 lb. of **Simazine**.
Fine soils*:** Apply 1.33 - 1.67 pts./A of **Sharda Metolachlor 84.4EC-D** with 1.8-2.2 lbs. of Atrazine or Simazine, or with 0.9 - 1.1 lbs. of Atrazine + 0.9 - 1.1 lbs. of Simazine.

*****Use Simazine in preference to Atrazine when heavy infestations of crabgrass or fall panicum are expected.
******When using the tank mixture of **Sharda Metolachlor 84.4EC-D** + Atrazine + Simazine, use equal rates of Atrazine and Simazine as shown when heavy broadleaf weed infestations are expected. When heavy infestations of crabgrass or fall panicum are expected, use a 1:2 ratio of Atrazine + Simazine instead of the 1:1 ratio given.

(*Example*: Total Atrazine + Simazine = 1.8 lbs./A, use 0.6 lb. of Atrazine + 1.2 lbs. of Simazine, respectively.)

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

Tank Mixture with Atrazine; or Atrazine + 2,4-D; or Atrazine + 2,4-D + Dicamba, potassium salt 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 Atrazine will kill most emerged small annual weeds. Apply **Sharda Metolachlor 84.4EC-D** + Atrazine before, during, or after planting, but before corn emerges, according to the rates in the **Sharda Metolachlor 84.4EC-D + Atrazine or Simazine, or Sharda Metolachlor 84.4EC-D** + Atrazine + Simazine, 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 compatibility agent 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 Dicamba, potassium salt 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 Paraquat at the rate of 1.67 pts./A in place of or in addition to 2,4-D, as indicated above. **DO NOT** apply Paraquat 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 Dicamba + Atrazine 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** + Dicamba + Atrazine will kill most emerged small annual weeds. Apply **Sharda Metolachlor 84.4EC-D** + Dicamba + Atrazine 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 Paraquat at its standard rate. Apply **Sharda Metolachlor 84.4EC-D** + Dicamba + Atrazine 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 Paraquat in suspension-type liquid fertilizer or use on emerged corn. Refer to the Dicamba + Atrazine label and follow all directions, limitations, restrictions, precautions, and instructions regarding application and use in corn.

Tank Mixture with Flumetsulam + Sharda Metolachlor 86.4EC

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, Flumetsulam + **Sharda Metolachlor 86.4EC** may be spiked with **Sharda Metolachlor 84.4EC-D** for optimum performance. Refer to the Flumetsulam + **Sharda Metolachlor 86.4EC** 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.

COTTON

Sharda Metolachlor 84.4EC-D ALONE

Application:

Apply **Sharda Metolachlor 84.4EC-D** pre-emergence only in Area 1***** at the rate of 0.50-1.0 pt./A on sandy loams, 0.67-1.33 pts./A on medium soils, or 1.0-1.33 pts./A on fine soils. Apply **Sharda Metolachlor 84.4EC-D** pre-plant incorporated or pre-emergence in Area 2****** at 1.0 pt./A on sandy loams, 1.0-1.33 pts./A on medium soils, or 1.33 pts./A on fine soils.

Restriction:

- **DO NOT** use on sands and loamy sand.

*Area 1 = AR, LA, MS, TN, and Bootheel of MO
**Area 2 = NM, OK, and TX

Pre-Plant Incorporated (NM, OK, and TX Only):

Apply to the soil and incorporate into the top inch of soil immediately before planting, at planting, or after planting, but before crop or weeds emerge. Use a rolling cultivator or similar implement to uniformly incorporate not more than 1-inch deep. Use a pre-plant incorporated application if furrow irrigation is used or when a period of dry weather after application is expected. Where furrow irrigation is used, wet the top of the bed for best results. If the crop is to be planted on beds, apply and incorporate after bed formation.

Cotton should be planted below the zone of incorporation; i.e., at least 1 inch on fine soils and 1.5 inches on coarse and medium soils. If incorporated prior to planting, use a planter that will result in a minimum of soil disturbance.

For best control of yellow nutsedge and suppression of seedling johnsongrass, apply **Sharda Metolachlor 84.4EC-D** pre-plant incorporated at the maximum rate for the soil texture, whether applied alone or mixed with Prometryn.

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

Restrictions:

- To avoid concentration in the seed furrow, **DO NOT** make broadcast applications of **Sharda Metolachlor 84.4EC-D** to cotton planted in furrows more than 2 inches deep. Band applications may be made to cotton planted in furrows deeper than 2 inches, but band width should not exceed the width of the bottom of the furrow.
- To avoid crop injury, **DO NOT** apply **Sharda Metolachlor 84.4EC-D** on sand or loamy sand soils, or in areas where water is likely to "pond" over the bed.
- **DO NOT** apply on Taloka silt loam.
- **DO NOT** use in Gaines County, TX.
- To avoid possible illegal residues, **DO NOT** graze or feed forage or fodder from cotton to livestock.

Sharda Metolachlor 84.4EC-D + Prometryn-Cotton (NM, OK, TX)

	SOIL TEXTURE	BROADCAST RATES PER ACRE	
		SHARDA METOLACHLOR 84.4EC-D	PROMETRYN
ALL	Sand, loamy sand	DO NOTUSE	
OK, and Blacklands and Gulf Coast of TX	Loams	0.85 - 1.33 pts.	2.4 pts.
	Clays	1.33 pts.	4.8 pts.
Rio Grande Valley of TX	Loams	0.85 - 1.33 pts.	3.2 pts.
	Clays	1.33 pts.	4.8 pts.
NM; High Plains, Rolling Plains, Edwards Plateau of TX; and Southwest TX	Sandy loam	0.85 - 1.0 pt.	1.6 pts.
	Loams	0.85 - 1.33 pts.	2.4 pts.
	Sandy clay loams	1.33 pts.	2.4 pts.
	Other clay soils	1.33 pts.	3.2 pts.

Restrictions:

- To avoid concentration in the seed furrow, **DO NOT** make broadcast applications of **Sharda Metolachlor 84.4EC-D** + Prometryn to cotton planted in furrows more than 2 inches deep. Band applications may be made to cotton planted in furrows deeper than 2 inches, but band width should not exceed the width of the bottom of the furrow.
- To avoid crop injury, **DO NOT** apply on sand or loamy sand soils, or in areas where water is likely to "pond" over the bed.
- **DO NOT** apply in cut areas of newly leveled fields, or in areas of excess salt.
- **DO NOT** apply to glandless cotton varieties.
- **DO NOT** apply on Taloka silt loam.
- **DO NOT** use in Gaines County, TX.
- To avoid possible illegal residues, **DO NOT** graze or feed forage or fodder from cotton to livestock.
- Refer the Prometryn label for further instructions and limitations.

Tank Mixture with Flumeturon

Sharda Metolachlor 84.4EC-D may be applied in tank mixture with Flumeturon (Sharda Fluometuron) pre-emergence for control of those weeds controlled by **Sharda Metolachlor 84.4EC-D** alone and those as listed on the Flumeturon (Sharda Fluometuron) label. This combination will also control spotted spurge, hyssop spurge, nodding spurge, and prostrate spurge. Apply to the soil surface at planting or after planting, but before weeds or crops emerge, using the appropriate rates from the **Sharda Metolachlor 84.4EC-D + Flumeturon (Sharda Fluometuron)-Cotton** table**.**

Mixing Instructions: Incompatibility may occur when tank mixing **Sharda Metolachlor 84.4EC-D** and Flumeturon. To help overcome this condition, fill the spray tank ¼ full with water or fluid fertilizer and start agitation, add the Flumeturon (Sharda Fluometuron) and allow it to become dispersed. Add comatibility agent surfactant at 0.5% volume/volume final spray (4 pts./100 gals.), then add the **Sharda Metolachlor 84.4EC-D** and finally the rest of the water or fluid fertilizer. Agitate during mixing and application to maintain a uniform suspension.

Sharda Metolachlor 84.4EC-D + Flumeturon (Sharda Fluometuron)-Cotton

SOIL TEXTURE	BROADCAST RATES PER ACRE		
	SHARDA METOLACHLOR 84.4EC-D		FLUMETURON (LBS.)
	Area 1*	Area 2**	
Sand, loamy sand	DO NOTUSE		
Sandy loam	0.50 - 1.0	0.85 - 1.0	1.2

Loam, silt, silt loam	0.67 - 1.33	1.0 - 1.33	1.2 - 1.9
Fine soil	1.0 - 1.33	1.33	1.9 - 2.4

*Area 1 = AR, LA, MS, Bootheel of MO, and TN.
**Area 2 = Eastern OK, Gulf Coast, Rio Grande Valley, and Eastern TX.

Precaution:

- The use of Flumeturon following the use of a systemic insecticide at planting may result in crop injury.

Restrictions:

- **DO NOT** use in Gaines County, TX.
- To avoid possible illegal residues, **DO NOT** feed treated forage or gin trash to livestock, or graze treated areas.
- **DO NOT** use on Taloka silt loam.
- To avoid concentration in the seed furrow, **DO NOT** make broadcast applications of **Sharda Metolachlor 84.4EC-D** + Flumeturon to cotton planted in furrows more than 2 inches deep. Band applications may be made to cotton planted in furrows deeper than 2 inches, but band width should not exceed the width of the bottom of the furrow.
- To avoid crop injury, **DO NOT** apply **Sharda Metolachlor 84.4EC-D** + Flumeturon on sand or loamy sand soils, or in areas where water is to "pond" over the bed.

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

Tank Mixture of Sharda Metolachlor 84.4EC-D or Sharda Metolachlor 84.4EC-D + Flumeturon with Paraquat or Glyphosate for Minimum-Tillage or No-Tillage Systems

In minimum-tillage or no-tillage systems where cotton is planted directly into a cover crop, stale seedbed, or previous crop residues, the contact herbicides Paraquat or Glyphosate may be added to a tank mix of either **Sharda Metolachlor 84.4EC-D** or **Sharda Metolachlor 84.4EC-D** + Flumeturon. When used as directed, the Paraquat portion of the tank mixture controls most emerged weeds and suppresses many perennial weeds. Glyphosate combinations will control emerged annual and perennial weeds when applied as directed on the Glyphosate label. The **Sharda Metolachlor 84.4EC-D** and **Sharda Metolachlor 84.4EC-D** + Flumeturon portion of the tank mixture provides pre-emergence control of the weeds listed on this label in the **Sharda Metolachlor 84.4EC-D** and **Sharda Metolachlor 84.4EC-D + Flumeturon** sections, respectively.

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

Application: Apply before, during, or after planting, but before the cotton emerges, at the rates specified below.

Apply **Sharda Metolachlor 84.4EC-D** at 0.85-1.0 pt./A on sandy loams, medium-, and fine-textured soils. Refer to the **Sharda Metolachlor 84.4EC-D + Flumeturon (Sharda Fluometuron)-Cotton** table for the Flumeturon (Sharda Fluometuron) rates.

Add Paraquat or Glyphosate at the following broadcast rates:
Paraquat: 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 taller than 6 inches.

Restriction:

- **DO NOT** apply combinations containing Paraquat in suspension-type liquid fertilizers, as the activity of paraquat will be reduced.

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

Precaution:

- If heavy rain occurs soon after application, crop injury may result, especially in poorly drained areas where water stands for several days, or where the seeding slit has not been properly closed.

Restriction:

- **DO NOT** use in Gaines County, TX.

Refer to the Flumeturon labels and the **Tank Mixture with Sharda Fluometuron or** Flumeturon section of this label for further instructions, precautions, and limitations.

PEANUTS

Sharda Metolachlor 84.4EC-D ALONE

Apply **Sharda Metolachlor 84.4EC-D**, either pre-plant incorporated, post-plant incorporated or pre-emergence using the appropriate rate specified below.

Pre-Plant Incorporated or Pre-Emergence: Follow instructions for use of **Sharda Metolachlor 84.4EC-D** alone under **Application Procedures**.

Post-Plant Incorporated: Apply and shallowly incorporate **Sharda Metolachlor 84.4EC-D** into the soil after planting, but before peanut germination. Incorporation depth and incorporating implements must be kept above the seed, or seed will be damaged.

Apply **Sharda Metolachlor 84.4EC-D** alone, pre-plant incorporated, post-plant incorporated or pre-emergence at a broadcast rate of 1.0-1.33 pts./A in the Southeast***** and 0.85-1.33 pts./A in NM, OK, and TX.

*****In the Southeast, use 1.33-2.0 pts./A and apply pre-emergence for partial control of Florida beggarweed.

Restrictions:

- **DO NOT** graze or feed peanut forage or fodder to livestock for 30 days following application.
- **DO NOT** apply within 90 days of harvest or illegal residues may result.

Sharda Metolachlor 84.4EC-D alone may be applied as directed after any of the following pre-plant incorporated herbicides when used according to their label directions: Benefin at 3-4 qts./A; Trifluralin. at 1 pt./A; Vernam® at 2.33-3 pts./A; Ethalfluralin at 1.25-3 pts./A; Imazethapyr at 0.25 pt./A; or Pendimethalin® at 1-2 pts./A.

Sharda Metolachlor 84.4EC-D COMBINATIONS

Tank Mixture with Benefin

Sharda Metolachlor 84.4EC-D + Benefin tank mixture applied pre-plant incorporated controls those weeds listed under **Sharda Metolachlor 84.4EC-D** Applied Alone and those weeds as listed on the Benefin label.

Apply 1.0-1.33 pts./A of **Sharda Metolachlor 84.4EC-D** + 3-4 qts./A of Benefin in a minimum of 10 gals. of spray volume per acre for ground application or in a minimum of 5.0 gals. of spray volume per acre for aerial application. Follow the procedures for Benefin on the Benefin label for soil preparation and incorporation of this tank mix. Apply and incorporate **Sharda Metolachlor 84.4EC-D** + Benefin up to 14 days prior to planting.

Follow all restrictions and precautions on the Benefin label.

Tank Mixture or Sequentially with Imazethapyr

The tank mixture or sequential treatment of **Sharda Metolachlor 84.4EC-D** and Imazethapyr controls all weeds controlled by **Sharda Metolachlor 84.4EC-D** alone and by Imazethapyr alone. Refer to the **Sharda Metolachlor 84.4EC-D Applied Alone** section for weeds controlled by **Sharda Metolachlor 84.4EC-D** and to the Imazethapyr label for weeds controlled by Imazethapyr.

Refer to the respective labels for application methods, timing, rates, restrictions, and precautions, and use in accordance with the more restrictive label.

Tank Mixture with Sonalan

The tank mixture controls all weeds controlled by **Sharda Metolachlor 84.4EC-D** alone and by Ethalfluralin alone. Refer to the **Sharda Metolachlor 84.4EC-D Applied Alone** section for weeds controlled by **Sharda Metolachlor 84.4EC-D** and to the Ethalfluralin label for weeds controlled by Ethalfluralin.

Apply **Sharda Metolachlor 84.4EC-D** + Ethalfluralin pre-plant incorporated, using the appropriate rate from the **Sharda Metolachlor 84.4EC-D + Ethalfluralin-Peanuts** table.

Follow labeled soil preparation procedures for Ethalfluralin.

Sharda Metolachlor 84.4EC-D + Ethalfluralin-Peanuts

SOIL TEXTURE	BROADCAST RATES PER ACRE			
	SOUTHEAST		NM, OK, TX	
	SHARDA METOLACHLOR 84.4EC-D	ETHALFLURALIN	SHARDA METOLACHLOR 84.4EC-D	ETHALFLURALIN
Coarse	1.0 - 1.33 pts.	1.25 - 2 pts.	0.85 - 1.33 pts.	1.25 - 2 pts.
Medium		1.75 - 2.5 pts.		1.75 - 2.5 pts.
Fine		2.25 - 3 pts.		2.25 - 3 pts.

Follow all use directions, limitations, restrictions, precautions, and information regarding application to peanuts on the **Sharda Metolachlor 84.4EC-D** and Ethalfluralin labels.

Tank Mixture with Prowl

Sharda Metolachlor 84.4EC-D + Pendimethalin applied pre-plant incorporated controls all weeds controlled by **Sharda Metolachlor 84.4EC-D** alone plus Texas panicum, field sandbur, johnsongrass from seed, lambsquarters, kochia, annual spurge, and other species on the Pendimethalin label. Apply **Sharda Metolachlor 84.4EC-D** + Pendimethalin by ground or by aerial equipment within 14 days before planting. Incorporate into the top 1-2 inches of soil before planting and within 7 days of application, using a finishing disk or similar implement capable of providing uniform incorporation. If peanuts will be planted on beds, apply and incorporate after bed formation. Refer to the Incorporation instructions of the respective labels for additional directions.

Apply **Sharda Metolachlor 84.4EC-D** + Pendimethalin pre-plant incorporated, using the appropriate rates from the **Sharda Metolachlor 84.4EC-D + Prowl-Peanuts** table.

Sharda Metolachlor 84.4EC-D + Prowl-Peanuts

SOIL TEXTURE	BROADCAST RATES PER ACRE	
	NM, OK, TX	OTHER PEANUT GROWING STATES
	SHARDA METOLACHLOR 84.4EC-D + PROWL	SHARDA METOLACHLOR 84.4EC-D + PROWL
Sand, loamy sand	0.85 pt. + 1-1.5 pts.	1.0-1.33 pts. + 1.5-2 pts.
Sandy loam	0.85-1.0 pt. + 1-1.5 pts.	1.0-1.33 pts. + 1.5-2 pts.
Fine soil	1.33 pts. + 1-1.5 pts.	1.33 pts. + 1.5-2 pts.

Follow all use directions, limitations, precautions, and information regarding application to peanuts on the **Sharda Metolachlor 84.4EC-D** and Pendimethalin labels.

Sequentially with Storm

Apply **Sharda Metolachlor 84.4EC-D** according to the directions for **Sharda Metolachlor 84.4EC-D Alone** and follow with a post-emergence treatment of Storm as specified on its label for the control of weeds listed on the **Sharda Metolachlor 84.4EC-D Alone** label and on the Storm label. Refer to the **Peanuts – Sharda Metolachlor 84.4EC-D Alone** section and to the Storm label and follow all directions, limitations, and restrictions for each product.

Multiple Applications

Where weed pressure is heavy or where species difficult to control are expected, **Sharda Metolachlor 84.4EC-D Alone** is most effective when used as follows:

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

1st Application: Apply **Sharda Metolachlor 84.4EC-D** pre-plant incorporated as directed under **Peanuts – Sharda Metolachlor 84.4EC-D Alone** or apply + Benefin pre-plant incorporated as directed previously in this section. Refer to the respective section for weeds controlled.

2nd Application: Apply **Sharda Metolachlor 84.4EC-D** any time from pre-emergence to before 'ground cracking' at 1.0-2.0 pts./A for extended control of weeds not yet emerged. If peanuts have emerged, use **Sharda Metolachlor 84.4EC-D** according to its label section entitled **Peanuts – Sharda Metolachlor 84.4EC-D Combinations – Multiple Applications.**

3rd Application: Apply **Sharda Metolachlor 84.4EC-D** at lay-by as directed under **Peanuts – Sharda Metolachlor 84.4EC-D Alone** section of the **Sharda Metolachlor 84.4EC-D** label.

Restrictions:

- **DO NOT** apply more than the equivalent of 4 lbs. of metolachlor active ingredient per acre during any one year or illegal residues may result.
- **DO NOT** use **Sharda Metolachlor 84.4EC-D** after peanuts have emerged.
- **DO NOT** graze or feed peanut forage or fodder to livestock for 30 days following application.
- **DO NOT** apply within 90 days of harvest or illegal residues may result.
- **DO NOT** use **Sharda Metolachlor 84.4EC-D** in the third application.

Southwest Only (NM, OK, TX)

1st Application: Apply **Sharda Metolachlor 84.4EC-D** pre-plant incorporated or pre-emergence to before 'ground cracking' as directed under **Peanuts – Sharda Metolachlor 84.4EC-D Alone** or apply **Sharda Metolachlor 84.4EC-D** + Benefin pre-plant incorporated as directed previously in this section.

Restrictions:

- **DO NOT** apply more than the equivalent of 2.6 lbs. of metolachlor active ingredient per acre during any one year or illegal residues may result.
- **DO NOT** use **Sharda Metolachlor 84.4EC-D** after peanuts have emerged.
- **DO NOT** graze or feed peanut forage or fodder to livestock for 30 days following application.
- **DO NOT** apply within 90 days of harvest or illegal residues may result.

POD CROPS

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

Sharda Metolachlor 84.4EC-D ALONE

Fall Application:

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

In all locations, apply to crop stubble after harvest when the sustained soil temperature at a 4-inch depth is less than 55°F and falling. In minimum-till or no-tillage systems on soils having greater than 2.5% organic matter, use 1.65-2.0 pts./A on medium-textured and 2.0 pts./A on fine-textured soils. A tillage operation may precede the application. A fall and/or a spring tillage may follow application, but **DO NOT** exceed an incorporation depth greater than 2-3 inches.

Restrictions:

- If a spring application is made, the total rate of the fall plus spring applications must not exceed the maximum total rate for pod crops or illegal residues may result.
- **DO NOT** apply to frozen ground.

Spring Application

Apply **Sharda Metolachlor 84.4EC-D**, either pre-plant incorporated or pre-emergence, using the appropriate rate specified below.

Pre-Plant Incorporated or Pre-Emergence: Follow instructions for use of **Sharda Metolachlor 84.4EC-D** alone under **Application Procedures**. On coarse soils with less than 3% organic matter, apply 1.0 -1.33 pts./A of **Sharda Metolachlor 84.4EC-D** or 1.33 pts./A if organic matter is 3% or greater. On medium soils, apply 1.33-1.67 pts./A of **Sharda Metolachlor 84.4EC-D**. On 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 pts./A if organic matter content is 3% or greater.

*On English peas, use only pre-emergence applications.

Restrictions:

- **DO NOT** use on English peas in northeastern U.S.
- To avoid possible illegal residues, **DO NOT** cut for hay within 120 days following a **Sharda Metolachlor 84.4EC-D** application.
- **DO NOT** apply more than 2.0 pts./A of **Sharda Metolachlor 84.4EC-D** during any one crop year, depending on soil texture.

Sharda Metolachlor 84.4EC-D COMBINATIONS

Restriction: When applying **Sharda Metolachlor 84.4EC-D** in combination on pod crops, **DO NOT** cut for hay within 120 days following application or illegal residues may result.

Tank Mixture and Sequential Applications with EPTC-Beans (Green or Dry)

This mixture controls all weeds controlled by **Sharda Metolachlor 84.4EC-D** alone and by EPTC alone. Refer to the **Sharda Metolachlor 84.4EC-D Applied Alone** section of this label for weeds controlled by **Sharda Metolachlor 84.4EC-D** alone and to the EPTC label for weeds controlled by EPTC.

Pre-Plant Incorporated: Follow instructions for use of **Sharda Metolachlor 84.4EC-D** alone under **Application Procedures**.

Sequential: Apply EPTC alone pre-plant incorporated, as specified on that label. Follow with a pre-emergence application of **Sharda Metolachlor 84.4EC-D**, at rates specified for **Sharda Metolachlor 84.4EC-D** alone, during planting (behind the planter) or after planting, but before the weeds or crop emerge.

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

Apply 2.5-4.5 pts./A of EPTC***** with **Sharda Metolachlor 84.4EC-D** as specified. On coarse soils, apply 0.85 pt./A of **Sharda Metolachlor 84.4EC-D** if organic matter content is less than 3%, or 1.0 pt./A if organic matter content is 3% or greater. On medium soils, apply 1.0 pt./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. On fine soils, apply 1.33 pts./A of **Sharda Metolachlor 84.4EC-D** if organic matter is less than 3%, or 1.33-1.67 pts./A if organic matter is 3% or greater.

Restriction:

- **DO NOT** exceed 3.5 pts./A of EPTC on small white beans or green beans grown on coarse-textured soils.

Tank Mixture with Trifluralin-Beans (Dry-Kidney, Navy, Pinto, etc.; Lima; and Snap)

Sharda Metolachlor 84.4EC-D + Trifluralin tank mix applied pre-plant incorporated controls those weeds listed under **Sharda Metolachlor 84.4EC-D Applied Alone** and those weeds listed for Trifluralin alone on the Trifluralin label. **Sharda Metolachlor 84.4EC-D** + Trifluralin may be applied by ground or by aerial equipment and incorporated up to 14 days prior to planting. Follow the labeled procedures on this label and on the respective Trifluralin label using equipment that provides uniform 2-inch incorporation.

Apply **Sharda Metolachlor 84.4EC-D** + Trifluralin tank mix using the appropriate **Sharda Metolachlor 84.4EC-D** rate specified for **Sharda Metolachlor 84.4EC-D** alone, and the Trifluralin rate from the Dry Beans, and the Lima and Snap Beans sections of the respective Trifluralin label. Choose the product rate for the specific soil texture/organic matter classification and weed species expected.

Follow all restrictions and precautions on the respective Trifluralin label and in the **Pod Crops-Sharda Metolachlor 84.4EC-D Alone** section of this label.

POTATOES

Sharda Metolachlor 84.4EC-D ALONE

Apply **Sharda Metolachlor 84.4EC-D**, either incorporated or pre-emergence, according to directions specified below for control of weeds listed under the **Product Information** section. Within a rate range, use the lower rate on soils relatively coarse-textured or low in organic matter; use the higher rate on soils relatively fine-textured or high in organic matter. Effectiveness will be reduced if later cultural practices expose untreated soil.

Incorporated: Apply **Sharda Metolachlor 84.4EC-D** at 1.0-2.0 pts./A to the soil and incorporate into the top 3 inches before planting, using a finishing disk, harrow, rolling cultivator, or similar implement. Planting and later cultural practices should not bring untreated soil to the surface. Post-plant incorporated application may be made any time after planting to drag-off, but before potato emergence. Use an implement that evenly distributes **Sharda Metolachlor 84.4EC-D** in the top 2 inches of soil. **DO NOT** damage potato seed pieces or sprouts with incorporation equipment.

Pre-Emergence: Apply **Sharda Metolachlor 84.4EC-D** at 1.0-2.0 pts./A, either after planting as a pre-emergence, delayed pre-emergence, after drag-off or hilling treatment, but before weeds emerge. Up to 2.75 pts./A of **Sharda Metolachlor 84.4EC-D** alone may be used where soil organic matter is between 6% and 20%.

Restrictions:

- **DO NOT** use on sweet potatoes or yams.
- **DO NOT** use on muck or peat soils. If cool, wet soil conditions occur after application, **Sharda Metolachlor 84.4EC-D** may delay maturity and/or reduce yield of Superior and other early maturing potato varieties.
- **DO NOT** apply both as a pre-emergence and an incorporated treatment.
- Potatoes treated with **Sharda Metolachlor 84.4EC-D** must not be harvested within 60 days after the at-planting to drag-off application or illegal residues may result.

Sharda Metolachlor 84.4EC-D COMBINATIONS

Tank Mixture with Metribuzin

In addition to those weeds controlled by **Sharda Metolachlor 84.4EC-D** alone, **Sharda Metolachlor 84.4EC-D** applied in tank mix combination with, or sequentially with, any of the registered Metribuzin formulations, also controls the following broadleaf weeds: cocklebur*****, hairy nightshade*****, hemp sesbania, jimsonweed*****, lambsquarters, prickly sida, ragweed, smartweed, velvetleaf, Venice mallow, and wild mustard.

*****Partially controlled.

Sharda Metolachlor 84.4EC-D at 1.0-2.0 pts./A plus the labeled Metribuzin use rate may be used pre-emergence. Apply 1.0-1.33 pts./A of **Sharda Metolachlor 84.4EC-D** on coarse soils and 1.33-2.0 pts./A on other soil textures. Within this rate range, use the lower rate on soils relatively coarse-textured or low in organic matter; use the higher rate on soils relatively fine-textured or high in organic matter. Effectiveness will be reduced if later cultural practices expose untreated soil. **Sharda Metolachlor 84.4EC-D** will not control emerged weeds.

Refer to the Metribuzin labels for use rates, precautionary statements, restrictions, application information, and weeds controlled.

Restrictions:

- **DO NOT** apply to sweet potatoes or yams.
- **DO NOT** use this tank mixture on muck or peat soils.
- Potatoes treated with **Sharda Metolachlor 84.4EC-D** in tank mixture with Metribuzin cannot be harvested within 60 days after application or illegal residues may result.

Sharda Metolachlor 84.4EC-D + Linuron Tank Mixture (East of Rocky Mountains)

Sharda Metolachlor 84.4EC-D may be applied in a tank-mix combination with any of the registered **Linuron** formulations as a pre-emergence broadcast application to potatoes. Apply to the soil surface after planting and before emergence of the crop or after final drag-off according to the rates specified in **Sharda Metolachlor 84.4EC-D + Linuron-Potatoes (East of Rocky Mountains).**

Sharda Metolachlor 84.4EC-D + Linuron-Potatoes (East of Rocky Mountains)

SOIL TEXTURE	BROADCAST RATES PER ACRE			
	1% TO LESS THAN 3% ORGANIC MATTER		3-5% ORGANIC MATTER	
	SHARDA METOLACHLOR 84.4EC-D	LINURON*	SHARDA METOLACHLOR 84.4EC-D	LINURON*
Coarse Sandy loam	1.0 pt.	1 - 1.5 lbs.	1.33 pts.	1.5 - 2 lbs.
Medium Loam, silt loam, silt	1.33 pts.	1.5 - 2 lbs.	1.67 - 2.0 pts.	2 - 2.5 lbs.
***When using **Linuron** L or **Linuron** DF, use equivalent rates. 1 pt. of **Linuron** L equals 1 lb. of **Linuron** DF.				

Restriction:

- To avoid crop injury, **DO NOT** use on sands or loamy sands and **DO NOT** incorporate or spray over the top of emerged potatoes.

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

Tank Mixture with Pendimethalin

In addition to the weeds controlled by **Sharda Metolachlor 84.4EC-D** alone, this tank mixture with Pendimethalin controls such problem species as kochia, lambsquarters, purslane, annual spurge, stinging nettle, and others specified on the Pendimethalin alone label. Apply **Sharda Metolachlor 84.4EC-D +** Pendimethalin pre-emergence or pre-emergence incorporated, according to the specific directions on the **Pendimethalin** label, using the rates in the **Sharda Metolachlor 84.4EC-D** + Pendimethalin-Potatoes table.

Sharda Metolachlor 84.4EC-D + Pendimethalin-Potatoes

SOIL TEXTURE	BROADCAST RATES PER ACRE	
	LESS THAN 3% ORGANIC MATTER	MORE THAN 3% ORGANIC MATTER
	SHARDA METOLACHLOR 84.4EC-D + PENDIMETHALIN*	SHARDA METOLACHLOR 84.4EC-D + PENDIMETHALIN*
Coarse	1.0-1.33 pts. + 1-1.5 pts.	1.0-1.33 pts. + 1-1.5 pts.
Medium	1.33 pts. + 1.5-2 pts.	1.33-1.67 pts. + 2-3 pts.
Fine	1.33-1.67 pts. + 2-3 pts.	1.67-2.0 pts. + 3 pts.
***When using other formulations of Pendimethalin, use equivalent rates of active ingredient.		

Refer to the **Sharda Metolachlor 84.4EC-D** and **Pendimethalin** labels and observe all directions, timings, limitations, restrictions, precautions, and restrictions concerning the use of these products on potatoes and follow the most restrictive.

Tank Mixture with Pendimethalin +EPTC

In addition to the weeds controlled by **Sharda Metolachlor 84.4EC-D** alone, this tank mixture will control those species on the **Pendimethalin** and EPTC labels. Refer to the **Sharda Metolachlor 84.4EC-D** + **Pendimethalin** labels for rates of those products and add EPTC at 3.5-7.0 pts./A, depending on geographical area. Refer to the respective **Sharda Metolachlor 84.4EC-D**, **Pendimethalin**, and EPTC labels and observe all directions, limitations, precautions, and restrictions concerning the use of these products on potatoes and follow the most restrictive.

SAFFLOWER

Sharda Metolachlor 84.4EC-D ALONE

Pre-Plant Incorporated or Pre-Emergence: Follow instructions for use of **Sharda Metolachlor 84.4EC-D** alone under **Application Procedures**.

On 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 is 3% or greater. On medium soils, apply 1.33-1.67 pts./A of **Sharda Metolachlor 84.4EC-D**. On 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.

GRAIN OR FORAGE SORGHUM
(Seed Treated with Fluxofenim or Glyphosate)

Sharda Metolachlor 84.4EC-D ALONE

Apply **Sharda Metolachlor 84.4EC-D**, either pre-plant surface, pre-plant incorporated, or pre-emergence, using the appropriate rate specified below. Apply **Sharda Metolachlor 84.4EC-D** alone only when the sorghum seed has been properly treated by the seed company with Fluxofenim or Glyphosate.

Pre-Plant Surface-Applied: Refer to instructions for use of **Sharda Metolachlor 84.4EC-D** under **Application Procedures**. For minimum-tillage or no-tillage systems only, **Sharda Metolachlor 84.4EC-D** may be applied up to 45 days before planting in CO, IA, IL, KS, MO, NE, and SD. Use only split applications for treatments made 30-45 days prior to planting, with ⅔ of the broadcast rate applied initially and the remaining ⅓ at planting. Apply 1.50 pts./A of **Sharda Metolachlor 84.4EC-D** on medium soils or 1.67 pts./A on fine soils. Treatments less than 30 days prior to planting may be made either as a split or single application. Apply 1.33 pts./A of **Sharda Metolachlor 84.4EC-**

D on coarse soils not more than 2 weeks prior to planting. Under dry conditions, irrigate after application to move **Sharda Metolachlor 84.4EC-D** into the soil.

Pre-Plant Incorporated or Pre-Emergence: Refer to instructions for use of **Sharda Metolachlor 84.4EC-D** under **Application Procedures**. Broadcast 1.0-1.33 pts./A of **Sharda Metolachlor 84.4EC-D** on coarse soils, 1.33-1.50 pts./A on medium soils, or 1.33-1.67 pts./A on fine soils.

Precautions:

- If sorghum seed is not properly treated with Fluxofenim or Glyphosate, **Sharda Metolachlor 84.4EC-D** will severely injure the crop.
- Under high soil moisture conditions prior to sorghum emergence, injury may occur following the use of **Sharda Metolachlor 84.4EC-D**. The crop will normally outgrow this effect.

Restrictions:

- Except for the split pre-plant surface treatment, **DO NOT** make more than one application per year, or illegal residues may result.
- **DO NOT** use **Sharda Metolachlor 84.4EC-D** on sorghum grown under dry mulch tillage or injury may occur.

Sharda Metolachlor 84.4EC-D COMBINATIONS
Sharda Metolachlor 84.4EC-D tank mixtures with Atrazine may be applied in water or fluid fertilizer. Apply **Sharda Metolachlor 84.4EC-D** in tank mixtures only when the sorghum seed has been properly treated by the seed company with Fluxofenim or Glyphosate.

IMPORTANT: FOR TANK MIXTURES WITH ATRAZINE
If applying **Sharda Metolachlor 84.4EC-D** in tank mixture with Atrazine, all the restrictions and rate limitations on the Atrazine label must be followed if more restrictive/protective than those on this label. In addition, if Atrazine is/must be applied at rates lower than those listed on this label, broadleaf weed control may be affected. Refer to the Atrazine label for weeds controlled at the reduced rates.

Precautions:

- Applications of **Sharda Metolachlor 84.4EC-D** + Atrazine on highly alkaline soils or on eroded areas where calcareous subsoils are exposed may cause sorghum injury.
- If sorghum seed is not properly treated with Fluxofenim or Glyphosate, **Sharda Metolachlor 84.4EC-D** + Atrazine may severely injure the crop.
- Under high soil moisture conditions prior to sorghum emergence, injury may occur following the use of **Sharda Metolachlor 84.4EC-D** + Atrazine. The crop will normally outgrow this effect.

Restrictions:

- Except for the split pre-plant surface treatment, **DO NOT** make more than one application per year, or illegal residues may result.
- **DO NOT** use **Sharda Metolachlor 84.4EC-D** + Atrazine on sorghum grown under dry mulch tillage, or injury may occur.

Tank Mixture with Atrazine
In addition to the weeds controlled by **Sharda Metolachlor 84.4EC-D** alone, **Sharda Metolachlor 84.4EC-D** + Atrazine also controls the following broadleaf weeds when applied either pre-plant surface, pre-plant incorporated, or pre-emergence: cocklebur, common purslane, hairy nightshade, lambsquarters, morningglory, ragweed, smartweed, and velvetleaf.

Pre-Plant Surface-Applied: Refer to instructions for use of **Sharda Metolachlor 84.4EC-D** under **Application Procedures**. For minimum-tillage or no-tillage systems only, **Sharda Metolachlor 84.4EC-D** + Atrazine may be applied up to 45 days prior to planting in IA, IL, eastern KS, MO, NE, and SD. Use only split applications for treatments made 30-45 days prior to planting, with ⅔of the broadcast rate applied initially and the remaining ⅓ at planting. Apply 1.5 pts./A of **Sharda Metolachlor 84.4EC-D** + 1.7-2 lbs./A of Atrazine***** on medium soils with 1.5% organic matter or greater. Apply 1.5 pts./A of **Sharda Metolachlor 84.4EC-D** + 1.7-2 lbs./A of Atrazine on fine soils with less than 1.5% organic matter, or apply 1.67 pts./A of **Sharda Metolachlor 84.4EC-D** + 2-2.2 lbs./A of Atrazine on fine soils with 1.5% organic matter or greater. Treatments less than 30 days prior to planting may be made either as a split or single application. Under dry conditions, irrigate after application to move **Sharda Metolachlor 84.4EC-D** + Atrazine into the soil.

Restriction:

- To avoid crop injury, **DO NOT** use on coarse soils and **DO NOT** use on medium soils with less than 1.5% organic matter.

Pre-Plant Incorporated or Pre-Emergence: Refer to instructions for use of **Sharda Metolachlor 84.4EC-D** under **Application Procedures**. On medium soils with 1.5% organic matter or greater, apply 1.0 pt./A of **Sharda Metolachlor 84.4EC-D** + 1.3 lbs./A of

Atrazine. On fine soils with less than 1.5% organic matter, apply 1.0 pt./A of **Sharda Metolachlor 84.4EC-D** + 1.3 lbs./A of Atrazine; on fine soils with 1.5% organic matter or greater, apply 1.2-1.33 pts./A of **Sharda Metolachlor 84.4EC-D** + 1.6-1.8 lbs./A of Atrazine.

Restrictions:

- **DO NOT** use on medium soils with less than 1.5% organic matter.
- **DO NOT** use on coarse soils.
- **DO NOT** use in NM, OK, or TX, except in northeast OK and the TX Gulf Coast and Blacklands areas.

Tank Mixture of Sharda Metolachlor 84.4EC-D or Sharda Metolachlor 84.4EC-D + Atrazine, with Paraquat or Glyphosate for Minimum-Tillage or No-Tillage Systems

In minimum-tillage or no-tillage systems where sorghum (seed treated with Fluxofenim or Glyphosate) is planted directly into a cover crop, stale seedbed, established sod, or previous crop residues, the contact herbicides Paraquat or Glyphosate may be tank mixed with **Sharda Metolachlor 84.4EC-D** or **Sharda Metolachlor 84.4EC-D** + Atrazine. See Comment No. 7 following **Sharda Metolachlor 84.4EC-D Tank Mixtures for Corn Additional Weeds Controlled and Special Instructions** chart**.** The **Sharda Metolachlor 84.4EC-D** or **Sharda Metolachlor 84.4EC-D** + Atrazine portion of the tank mixture provides pre-emergence control of the weeds listed on this label under the respective sections.

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

Application: Apply before, during, or after planting, but before sorghum emerges, at the appropriate rates listed under **Grain or Forage Sorghum - Sharda Metolachlor 84.4EC-D Alone** or **- Sharda Metolachlor 84.4EC-D Combinations - Sharda Metolachlor 84.4EC-D + Atrazine**, respectively. Add Paraquat or Glyphosate at the following broadcast rates:
Paraquat: 1.5-2, 2-2.5, or 2.5-3 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 taller than 6 inches.

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

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

SOYBEANS

Sharda Metolachlor 84.4EC-D ALONE

Apply **Sharda Metolachlor 84.4EC-D**, either pre-plant surface-applied, pre-plant incorporated, pre-emergence, or post-emergence using the appropriate rate specified below.

Pre-Plant Surface-Applied, Pre-Plant Incorporated, Pre-Emergence: Follow instructions for use of **Sharda Metolachlor 84.4EC-D** alone under **Application Procedures.**

Post-Emergence: Follow the **Tank Mixture** instructions under **Post-Emergence Applications.**

Pre-Plant Surface-Applied Fall Application (Apply after September 30 in MN, ND, SD, WI and north of Route 30 in IA; Apply after October 15 north of Route 91 in NE and south of Route 30 in IA; Apply after October 31 north of Route 136 in IL):

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

Restrictions:

- If a spring application is made, the total rate of the fall plus spring applications must not exceed the maximum total rate for soybeans or illegal residues may result.
- **DO NOT** apply to frozen ground.

Use on medium and fine soils with minimum-tillage or no-tillage systems in CO, CT, DE, IA, IL, IN, KS, KY, MA, MD, ME, MI, MN, MO, MT, ND, NE, NH, NY, OH, PA, RI, SD, TN, VA, VT, WI, WV, and WY. Apply ⅔ the 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 prior to planting and the remainder at planting. Applications made less than 30 days before planting may be as either a split or single treatment. Apply 1.33 pts./A on coarse soils not more than 2 weeks prior to planting.

Pre-Plant Incorporated or Pre-Emergence: On 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. On medium soils, apply 1.33-1.67 pts./A of **Sharda Metolachlor 84.4EC-D**. On 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.

On soybeans, **Sharda Metolachlor 84.4EC-D** may be used up to 2.55 pts./A as a pre-plant surface-applied, pre-plant incorporated, or pre-emergence treatment on soils having an organic matter content between 6% and 20%.

Restrictions:

- The total **Sharda Metolachlor 84.4EC-D** rate applied to soybeans during any one crop must not exceed 2.55 pts./A.
- **DO NOT** graze or feed treated soybean forage, hay, or straw to livestock 30 days following treatment, or illegal residues may result.

Post-Emergence

From emergence up through the third trifoliate leaf stage:

Apply 1.0-1.33 pts./A as a post-emergence treatment to soybeans from emergence up through the **third trifoliate leaf stage**. **Sharda Metolachlor 84.4EC-D** will not control emerged weeds so it must be applied to a weed-free surface or in a tank mixture with products that provide post-emergence control of weeds present at the time of application.

From emergence up through the fifth trifoliate leaf stage*:

Apply 1.0-1.33 pts./A as a post-emergence treatment to soybeans from emergence up through the **fifth trifoliate leaf stage**. **Sharda Metolachlor 84.4EC-D** will not control emerged weeds so it must be applied to a weed-free surface or in a tank mixture with products that provide post-emergence control of weeds present at the time of application.

*Not for use in California

Restrictions:

- **DO NOT** apply a post-emergence application of **Sharda Metolachlor 84.4EC-D** if a pre-plant surface, pre-plant incorporated, or pre-emergence application of metolachlor products have already been applied.
- When **Sharda Metolachlor 84.4EC-D** is applied post-emergence to soybeans **DO NOT** apply more than 1.33 pts./A post-emergence.
- To avoid possible illegal residues, make post-emergence applications at least 90 days before harvest.
- **DO NOT** graze or feed treated forage or hay from soybeans to livestock following a post-emergence application of **Sharda Metolachlor 84.4EC-D**.

Sharda Metolachlor 84.4EC-D COMBINATIONS

Water or fluid fertilizer may be used as carrier for **Sharda Metolachlor 84.4EC-D** in combination with Metribuzin, **Linuron®**, Prodiamine + Isoxaben, Metribuzin + chlorimuron-ethyl, Metribuzin, Metribuzin + Sulfentrazone, Imazethapyr, Imazaquin, Ethalfluralin, or Clomazone.

For all of the following combinations, **Sharda Metolachlor 84.4EC-D** may be used up to 2.3 pts./A on soils having an organic matter content between 6% and 20%.

Restriction:

- The total **Sharda Metolachlor 84.4EC-D** rate applied to soybeans during any one crop year must not exceed 2.55 pts./A.

Pre-Plant/Pre-Emergence Applications

Tank Mixture with Metribuzin

In addition to those weeds controlled by **Sharda Metolachlor 84.4EC-D** alone, **Sharda Metolachlor 84.4EC-D** + Metribuzin, when applied as directed, also controls the following broadleaf weeds: cocklebur*****, hairy nightshade, hemp sesbania, jimsonweed*****, lambsquarters, prickly sida, ragweed, smartweed, velvetleaf, Venice mallow, and wild mustard.

*****Partially controlled.

Apply **Sharda Metolachlor 84.4EC-D** plus Metribuzin pre-plant incorporated or pre-emergence, using the appropriate rates from the **Sharda Metolachlor 84.4EC-D + Metribuzin-Soybeans** table.

Pre-Plant Incorporated or Pre-Emergence: Follow instructions for use of **Sharda Metolachlor 84.4EC-D** alone under **Application Procedures**. Consult the tank mix partner label for specific use rate and other application information.

Sequential: Apply **Sharda Metolachlor 84.4EC-D** alone pre-plant incorporated, as specified in **Sharda Metolachlor 84.4EC-D + Metribuzin-Soybeans** table for this tank mixture. Follow with a pre-emergence application of Metribuzin during planting (behind the planter) or after planting, but before weeds or soybeans emerge.

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

Sharda Metolachlor 84.4EC-D + Metribuzin-Soybeans

SOIL TEXTURE**	BROADCAST RATES PER ACRE					
	0.5% to Less than 3% Organic Matter			3% Organic Matter or Greater		
	SHARDA METOLACHLOR 84.4EC-D		METRIBUZIN *	SHARDA METOLACHLOR 84.4EC-D		METRIBUZIN *
Coarse Loamy sand (over 2% organic matter) Sandy Loam	0.85 - 1.0 pt.	+	Consult product label for specific use rate information.	1.0 pt.	+	Consult product label for specific use rate information.
Medium	1.0 - 1.33 pts.			1.33 pts.		
Fine	1.33 pts.			1.33 - 1.67 pts.		
Mississippi Delta Only Silty clay, clay	1.33 pts.			1.33 - 1.67 pts.		
Muck or Peat (soils with more than 20% organic matter)	**DO NOTUSE**					

***When using Metribuzin, multiply lbs. of DF by 1.5 to get pts./A.
****Restriction:** On all sand and on loamy sand with less than 2% organic matter, **DO NOT** use this tank mixture pre-emergence or the sequential treatment. **DO NOT** use the tank mixture pre-plant incorporated on any sand, loamy sand, or sandy loam, or crop injury may occur.

Precaution:

- If heavy rain occurs soon after application, crop injury may result, especially in poorly drained areas where water stands for several days.

Restriction:

- To avoid crop injury, **DO NOT** use the tank mix or sequential application on soil with less than 0.5% organic matter or on alkaline soil with a pH over 7.4.

Tank Mixture with Linuron

In addition to those weeds controlled by **Sharda Metolachlor 84.4EC-D** alone, **Sharda Metolachlor 84.4EC-D** + **Linuron**, applied pre-emergence, also controls the following broadleaf weeds: cocklebur*, jimsonweed*, lambsquarters, morningglory*, prickly sida, ragweed, smartweed, velvetleaf*, Venice mallow, and wild mustard.
*Partially controlled.

Pre-Emergence: Apply during planting (behind planter) or after planting, but before weeds or soybeans emerge. Refer to the **Linuron** label for planting details. Apply the appropriate rates from the **Sharda Metolachlor 84.4EC-D + Linuron-Soybeans** table.

Restriction:

- **DO NOT** use on soil with less than 0.5% organic matter or crop injury may occur.

Sharda Metolachlor 84.4EC-D + Linuron-Soybeans

SOIL TEXTURE*	BROADCAST RATES PER ACRE					
	0.5% to Less than 3% Organic Matter			3% Organic Matter or Greater		
	SHARDA METOLACHLOR 84.4EC-D		LINURON	SHARDA METOLACHLOR 84.4EC-D		LINURON
Coarse	0.85 pt.		1 lb.	1.0 pt.		1 - 1.5 lbs.
Medium	1.0 pt.	+	1 - 1.5 lbs.	1.33 pts.	+	1.5 - 2 lbs.
Fine	1.33 pts.		2 lbs.	1.33 - 1.67 pts.		2.5 - 3 lbs.
Muck or Peat (soils with more than 20% organic matter)	**DO NOTUSE**					

***Restriction: DO NOT** use on sand, gravelly soils, or exposed subsoils.
****Restriction: DO NOT** use on loamy sand, except in the northeastern U.S. on loamy sand with over 1% organic matter.

Tank Mixture with Trifluralin

Sharda Metolachlor 84.4EC-D + Trifluralin tank mix applied pre-plant incorporated controls those weeds listed under the **Sharda Metolachlor 84.4EC-D Applied Alone** section and those weeds listed for Trifluralin Alone on the Trifluralin label. **Sharda Metolachlor 84.4EC-D** + Trifluralin may be applied by ground or by aerial equipment and incorporated up to 14 days before planting. Follow the procedures on the Trifluralin and **Sharda Metolachlor 84.4EC-D** labels, using equipment that provides uniform 2-inch incorporation.

Apply **Sharda Metolachlor 84.4EC-D** + Trifluralin tank mix, using the appropriate rate from the **Soybeans - Sharda Metolachlor 84.4EC-D Alone** section of this label and the Trifluralin Alone section of the Trifluralin label for the specific soil texture/organic matter classification and weed species expected.

To control DNA-resistant goosegrass* and other species on the respective labels where the soil organic matter is 3% or less, apply the rate listed in the **Sharda Metolachlor 84.4EC-D + Trifluralin-Organic Matter Content Less Than 3%.**

Sharda Metolachlor 84.4EC-D + Trifluralin-Organic Matter Content Less Than 3%

SOIL TEXTURE	BROADCAST RATE PER ACRE		
	SHARDA METOLACHLOR 84.4EC-D	TRIFLURALIN	
	ORGANIC MATTER		
	Less Than 3%	Less Than 2%	2 - 3 %
Coarse*	0.85 - 1.0 pt.	1 pt.	1.5 pts.
Medium	1.0 pt.	1.5 pts.	1.5 pts.
Fine	1.33 pts.	2 pts.	2 pts.
*Where a range of rates is given for **Sharda Metolachlor 84.4EC-D**, use the minimum rate where DNA-resistant goosegrass is the predominant species.			

Follow all restrictions and precautions on the respective Trifluralin label and in the **Soybeans-Sharda Metolachlor 84.4EC-D** section of this label.

Tank Mixture with Imazaquin
This tank mixture controls all weeds controlled by **Sharda Metolachlor 84.4EC-D** alone and by Imazaquin alone. Refer to the **Sharda Metolachlor 84.4EC-D Applied Alone** section for weeds controlled by **Sharda Metolachlor 84.4EC-D** and to the Imazaquin label for weeds controlled by Imazaquin. Refer to the Imazaquin label for geographical locations where this tank mixture may be applied.

Apply **Sharda Metolachlor 84.4EC-D** + Imazaquin pre-plant incorporated or pre-emergence, using rates in the **Sharda Metolachlor 84.4EC-D + Imazaquin-Soybeans** table.

Follow use directions under Application Instructions on the Imazaquin label. For pre-plant incorporated applications, apply and incorporate within 30 days before planting. Observe all other restrictions, precautions, and limitations on the Imazaquin labels.

Sharda Metolachlor 84.4EC-D + Imazaquin-Soybeans

SOIL TEXTURE	BROADCAST RATES PER ACRE			
	Less Than 3% Organic Matter		3% Or More Organic Matter	
	SHARDA METOLACHLOR 84.4EC-D	IMAZAQUIN	SHARDA METOLACHLOR 84.4EC-D	IMAZAQUIN
Coarse	0.85 pt.	0.67 pt.	1.0 pt.	0.67 pt.
Medium	1.0 pt.		1.33 pts.	
Fine	1.33 pts.		1.33-1.67* pts.	
Muck or Peat (soils with more than 20% organic matter)	**DO NOTUSE**			
*Use the higher rate of **Sharda Metolachlor 84.4EC-D** if heavy weed infestations are expected.				

Restrictions:
- **DO NOT** apply within 90 days of harvest.
- **DO NOT** graze or feed treated soybean forage, hay, or straw to livestock, or illegal residues may result.

Tank Mixture with Linuron
This tank mixture controls all weeds controlled by **Sharda Metolachlor 84.4EC-D** alone and by **Linuron** Plus alone. Refer to the **Sharda Metolachlor 84.4EC-D Applied Alone** section for weeds controlled by **Sharda Metolachlor 84.4EC-D** and to the **Linuron** Plus label for weeds controlled by **Linuron** Plus.

Apply **Sharda Metolachlor 84.4EC-D** + **Linuron** Plus pre-emergence after planting, but before soybeans emerge, using rates in the **Sharda Metolachlor 84.4EC-D + Linuron-Soybeans** table.

Follow all use directions, limitations, precautions, information regarding application to soybeans, and rotational restrictions on the **Sharda Metolachlor 84.4EC-D** and **Linuron** labels.

Sharda Metolachlor 84.4EC-D + Linuron-Soybeans

SOIL TEXTURE	BROADCAST RATES PER ACRE	
	0.5 - 3% Organic Matter	
	SHARDA METOLACHLOR 84.4EC-D	LINURON (60DF)

Coarse	0.85 pt.	12 - 14 oz.
Medium	1.0 pt.	14 - 16 oz.
Fine	1.33 pts.	16 - 18 oz.

Restriction:

- **DO NOT** apply to sand, or to any soil with less than 0.5% organic matter, or to any soil with pH greater than 6.8.

Tank Mixture with Isoxaben + Prodamine

This tank mixture controls all weeds controlled by **Sharda Metolachlor 84.4EC-D** alone and by Isoxaben + Prodamine alone. Refer to the **Sharda Metolachlor 84.4EC-D Applied Alone** section for weeds controlled by **Sharda Metolachlor 84.4EC-D** and to the Isoxaben + Prodamine label for weeds controlled by Isoxaben + Prodamine.

Apply **Sharda Metolachlor 84.4EC-D** + Isoxaben + Prodamine pre-emergence after planting, but before soybeans emerge, using rates in the **Sharda Metolachlor 84.4EC-D +** Isoxaben + Prodamine -Soybeans table.

Follow all use directions, limitations, precautions, information regarding application to soybeans, and rotational restrictions on the **Sharda Metolachlor 84.4EC-D** and Isoxaben + Prodamine labels.

Sharda Metolachlor 84.4EC-D + Isoxaben + Prodamine -Soybeans

SOIL TEXTURE	**BROADCAST RATES PER ACRE**	
	0.5 - 3% Organic Matter	
	SHARDA METOLACHLOR 84.4EC-D	**ISOXABEN + PRODAMINE (60DF)**
Coarse Sandy loam only	0.85 pt.	12 - 16 oz.
Medium	1.0 pt.	16 - 20 oz.
Fine	1.33 pts.	20 - 24 oz.

Restriction:

- **DO NOT** apply to sand or loamy sand, or to any soil with less than 0.5% organic matter, or to any soil with pH greater than 7.0, except as in the directions of use for the Isoxaben + Prodamine label.

Tank Mixture with Metribuzin + chlorimuron-ethyl

This tank mixture controls all weeds controlled by **Sharda Metolachlor 84.4EC-D** alone and by Metribuzin + chlorimuron-ethyl alone. Refer to the **Sharda Metolachlor 84.4EC-D Applied Alone** section for weeds controlled by **Sharda Metolachlor 84.4EC-D** and to the Metribuzin + chlorimuron-ethyl labels for weeds controlled.

Apply pre-plant incorporated or pre-emergence, using the appropriate rates from the **Sharda Metolachlor 84.4EC-D + Metribuzin + chlorimuron-ethyl-Soybeans** table.

Pre-Plant Incorporated: Apply within 2 weeks of planting. Uniformly incorporate into the top 1-2 inches of soil before planting soybeans.

Pre-Emergence: Apply after planting, but before soybeans emerge.
Follow all use directions, varietal restrictions, limitations, precautions, information regarding application to soybeans, and rotational restrictions on the **Sharda Metolachlor 84.4EC-D** and Metribuzin + chlorimuron-ethyl labels.

Sharda Metolachlor 84.4EC-D + Sharda Metrix Plus or Metribuzin + chlorimuron-ethyl-Soybeans

SOIL TEXTURE	**BROADCAST RATES PER ACRE**			
	0.5 to Less Than 3% Organic Matter		**3 - 5% Organic Matter**	
	SHARDA METOLACHLOR 84.4EC-D	**METRIBUZIN OR METRIBUZIN + CHLORIMURON-ETHYL**	**SHARDA METOLACHLOR 84.4EC-D**	**METRIBUZIN OR METRIBUZIN + CHLORIMURON-ETHYL**
Coarse	0.85 pt.	Consult product label for specific use rate information.	1.0 pt.	Consult product label for specific use rate information.
Medium	1.0 pt.		1.33 pts.	
Fine	1.33 pts.		1.33 - 1.67 pts.	

Restriction:

- **DO NOT** apply to sand, or to any soil with less than 0.5% organic matter, or to any soil with pH greater than 7.0, except as noted in the directions for use of the Metribuzin + chlorimuron-ethyl labels.

Tank Mixture with Metribuzin + Sulfentrazone

This tank mixture controls all weeds controlled by **Sharda Metolachlor 84.4EC-D** alone and by Metribuzin + Sulfentrazone alone. Refer to the **Sharda Metolachlor 84.4EC-D Applied Alone** section for weeds controlled by **Sharda Metolachlor 84.4EC-D** and to the Metribuzin + Sulfentrazone label for weeds controlled by Metribuzin + Sulfentrazone.
Apply pre-plant incorporated or pre-emergence, using the appropriate rates from the **Sharda Metolachlor 84.4EC-D + Metribuzin + Sulfentrazone-Soybeans** table.

Pre-Plant Incorporated: Apply within 2 weeks of planting. Uniformly incorporate into the top 1-2 inches of soil before planting soybeans.

Pre-Emergence: Apply after planting, but before soybeans emerge.

Follow all use directions, varietal restrictions, limitations, precautions, information regarding application to soybeans, and rotational restrictions on the **Sharda Metolachlor 84.4EC-D** and Metribuzin + Sulfentrazone labels.
Sharda Metolachlor 84.4EC-D + Metribuzin + Sulfentrazone-Soybeans

SOIL TEXTURE	BROADCAST RATES PER ACRE			
	0.5 - 3% Organic Matter		3-5% Organic Matter	
	Sharda Metolachlor 84.4EC-D	Metribuzin + Sulfentrazone	Sharda Metolachlor 84.4EC-D	Metribuzin + Sulfentrazone
Coarse	0.85 pt.	6 oz.	1.0 pt.	7 oz.
Medium	1.0 pt.	7 oz.	1.33 pts.	8 oz.
Fine	1.33 pts.	8 oz.	1.33 - 1.67 pts.	9-10 oz.

Restrictions: DO Not apply to sand, or to any soil with less than 0.5% organic matter, or to any soil with pH greater than 6.8

Tank Mixture with Clomazone*
This tank mixture controls all weeds controlled by **Sharda Metolachlor 84.4EC-D** alone and by Clomazone alone. Refer to the **Sharda Metolachlor 84.4EC-D Applied Alone** section for weeds controlled by **Sharda Metolachlor 84.4EC-D** and to the Clomazone label for weeds controlled by Clomazone.

Apply **Sharda Metolachlor 84.4EC-D** + Clomazone pre-plant incorporated, using rates in the **Sharda Metolachlor 84.4EC-D + Clomazone-Soybeans** table. Follow all Clomazone application instructions as to incorporation interval, geographical location, equipment operation, soil moisture conditions, etc.

*Before making applications, read and strictly follow all use directions, limitations, precautions, information regarding application to soybeans, and rotational restrictions on the **Sharda Metolachlor 84.4EC-D** and Clomazone labels.

Sharda Metolachlor 84.4EC-D + Clomazone-Soybeans

SOIL TEXTURE	BROADCAST RATES PER ACRE			
	SHARDA METOLACHLOR 84.4EC-D		CLOMAZONE	
	0.5 - 3% Organic Matter	Greater Than 3% Organic Matter	Northern Area	Southern Area
Coarse	0.85 pt.	1.0 pt.	1.5 - 2 pts.	2 - 2.5 pts.
Medium	1.0 pt.	1.33 pts.		
Fine	1.33 pts.	1.33 - 1.67 pts.		

Tank Mixture with Ethalfluralin
This tank mixture controls all weeds controlled by **Sharda Metolachlor 84.4EC-D** alone and by Ethalfluralin alone. Refer to the **Sharda Metolachlor 84.4EC-D Applied Alone** section for weeds controlled by **Sharda Metolachlor 84.4EC-D** and to the Ethalfluralin label for weeds controlled by Ethalfluralin.

Apply **Sharda Metolachlor 84.4EC-D** and Ethalfluralin pre-plant incorporated, using the appropriate rates from the **Sharda Metolachlor 84.4EC-D + Ethalfluralin-Soybeans** table.

Pre-Plant Incorporated: Follow soil preparation procedures for Ethalfluralin. Refer to the Ethalfluralin/**Sharda Metolachlor 84.4EC-D** Tank Mixture label for incorporation specifications.

Sequential: Apply Ethalfluralin alone pre-plant incorporated as specified on the Ethalfluralin label. Follow with a pre-emergence application of **Sharda Metolachlor 84.4EC-D** during planting (behind the planter) or after planting, but before weeds or soybeans emerge.

Sharda Metolachlor 84.4EC-D + Ethalfluralin-Soybeans

SOIL TEXTURE	BROADCAST RATES PER ACRE	
	Less Than 3% Organic Matter	3% or More Organic Matter

	SHARDA METOLACHLOR 84.4EC-D	**ETHALFLURALIN**	**SHARDA METOLACHLOR 84.4EC-D**	**ETHALFLURALIN**
Coarse	1.0 - 1.33 pts.	1.25 - 2 pts.	1.33 pts.	1.25 - 2 pts.
Medium*	1.33 - 1.67 pts.	1.75 - 2.5 pts.	1.33 - 1.67 pts.	1.75 - 2.5 pts.
Fine*	1.33 - 1.67 pts.	2.25 - 3 pts.	1.67 - 2.0 pts.	2.25 - 3.0 pts.
Muck or Peat (soils with more than 20% organic matter)	**DO NOTUSE**			
*For eastern black nightshade on these soils, apply 3 pts./A of Ethalfluralin on medium and 3.5 pts./A on fine-textured soils, and follow with 2 incorporation passes.				

Follow all use directions, limitations, restrictions, precautions, and information regarding application to soybeans on the **Sharda Metolachlor 84.4EC-D** and Ethalfluralin labels.

Tank Mixture with Imazethapyr
This tank mixture controls all weeds controlled by **Sharda Metolachlor 84.4EC-D** alone and by Imazethapyr alone. Refer to the **Sharda Metolachlor 84.4EC-D Applied Alone** section for weeds controlled by **Sharda Metolachlor 84.4EC-D** and to the Imazethapyr label for weeds controlled by Imazethapyr. Refer to the Imazethapyr label for geographical locations where this tank mixture may be applied.

Apply **Sharda Metolachlor 84.4EC-D** + Imazethapyr early pre-plant, pre-plant incorporated, or pre-emergence after planting, using rates in the **Sharda Metolachlor 84.4EC-D + Imazethapyr-Soybeans** table. Application can be made in water or liquid fertilizer. Follow all use directions under Soil Applications on the Imazethapyr label. For early pre-plant and pre-plant incorporated applications, apply within 30 days of planting.

Follow all use directions, limitations, precautions, information regarding application to soybeans, and rotational restrictions on the **Sharda Metolachlor 84.4EC-D** and Imazethapyr labels.

Sharda Metolachlor 84.4EC-D + Imazethapyr-Soybeans

SOIL TEXTURE	**BROADCAST RATES PER ACRE**		
	Less Than 3% Organic Matter	**3% or More Organic Matter**	
	SHARDA METOLACHLOR 84.4EC-D	**SHARDA METOLACHLOR 84.4EC-D**	**IMAZETHAPYR**
Coarse	0.85 pt.	1.0 pt.	0.25 pt.
Medium	1.0 pt.	1.33 pts.	
Fine	1.33 pts.	1.33 - 1.67 pts.	

Sequential: Apply **Sharda Metolachlor 84.4EC-D** early pre-plant, pre-plant incorporated, or pre-emergence after planting at 0.85 pt./A on coarse soils and 1.0 pt./A on medium- and fine-textured soils. Follow with a sequential post-emergence application of Imazethapyr to control emerged weeds according to the Imazethapyr label. **Sharda Metolachlor 84.4EC-D** will improve the consistency and level of control from Imazethapyr on most grass species. Refer to the Imazethapyr post-emergence label for a listing of weeds controlled, application rate, and growth stage limitations.

Tank Mixture with Metribuzin, Imazaquin, Lorox, Linuron, Isoxaben + Prodamine , Metribuzin + chlorimuron-ethyl, Metribuzin + Sulfentrazone, Imazethapyr or Paraquat, or Glyphosate for Minimum-Tillage or No-Tillage Systems
In minimum-tillage or no-tillage systems where soybeans are planted directly into a cover crop, stale seedbed, established sod, or previous crop residues, the contact herbicides, Paraquat or Gluphosate may be added to a tank mix of either **Sharda Metolachlor 84.4EC-D** + Metribuzin, **Sharda Metolachlor 84.4EC-D** + Imazaquin, **Sharda Metolachlor 84.4EC-D** + **Linuron**, **Sharda Metolachlor 84.4EC-D** + **Linuron** Plus, **Sharda Metolachlor 84.4EC-D** + Isoxaben + Prodamine , **Sharda Metolachlor 84.4EC-D** + Sharda Praxis Plus or Metribuzin + chlorimuron-ethyl, **Sharda Metolachlor 84.4EC-D** + Metribuzin + Sulfentrazone, or **Sharda Metolachlor 84.4EC-D** + Sharda Praxis or Imazethapyr. When used as directed, the Paraquat portion of the tank mixture controls most emerged weeds and suppresses many perennial weeds. Glyphosate combinations will control emerged annual and perennial weeds when applied as directed on the Glyphosate label. The **Sharda Metolachlor 84.4EC-D** + Metribuzin, Imazaquin, Linuron, Linuron Plus, Isoxaben + Prodamine , Metribuzin + chlorimuron-ethyl, Metribuzin + Sulfentrazone, or Imazethapyr 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** +Metribuzin or **Sharda Metolachlor 84.4EC-D** + Imazaquin, **Sharda Metolachlor 84.4EC-D** + **Linuron**, **Sharda Metolachlor 84.4EC-D** + **Linuron** Plus, **Sharda Metolachlor 84.4EC-D** + Isoxaben + Prodamine , **Sharda Metolachlor 84.4EC-D** + Metribuzin or Metribuzin + chlorimuron-ethyl, **Sharda Metolachlor 84.4EC-D** + Metribuzin + Sulfentrazone, and **Sharda Metolachlor 84.4EC-D** + Imazethapyr, respectively.

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

Refer below for rates of Paraquat or Glyphosate, **Sharda Metolachlor 84.4EC-D** + Metribuzin, **Sharda Metolachlor 84.4EC-D** + Imazaquin, **Sharda Metolachlor 84.4EC-D** + **Linuron**, **Sharda Metolachlor 84.4EC-D** + **Linuron** Plus, **Sharda Metolachlor 84.4EC-D** +

Isoxaben+prodiamine, **Sharda Metolachlor 84.4EC-D** + Metribuzin + chlorimuron-ethyl, **Sharda Metolachlor 84.4EC-D** + Metribuzin + Sulfentrazone, and **Sharda Metolachlor 84.4EC-D** + Imazethapyr, respectively.

Application: Apply before, during, or after planting, but before the soybeans emerge, at the rates specified below. Add Paraquat or Glyphosate at the following broadcast rates:
Paraquat: 1.5-2, 2-2.5, or 2.5-3 pts./A to 1-3 inches, 3-6 inches, or 6-inch tall weeds, respectively. Apply surfactant at 1.0 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 taller than 6 inches.

Restriction: DO NOT apply combinations containing Paraquat in suspension-type liquid fertilizers as the activity of paraquat will be reduced.

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

Sharda Metolachlor 84.4EC-D + Metribuzin + Paraquat Glyphosate
On loamy sand with over 2% organic matter, apply 1.0 pt./A of **Sharda Metolachlor 84.4EC-D** + product label use rate of Metribuzin. On medium soils, apply 1.33 pts./A of **Sharda Metolachlor 84.4EC-D** + product label use rate of Metribuzin. On fine soils, apply 1.33-1.67 pts./A of **Sharda Metolachlor 84.4EC-D** + product label use rate of Metribuzin. Refer to the tank mix partner product label for specific information on use rate, application information, restrictions, and precautions.

When using Metribuzin, multiply lbs. of DF by 1.5 to get pts./A.

Precaution:
- If heavy rain occurs soon after application, crop injury may result, especially in poorly drained areas where water stands for several days or where the seeding slit has not been properly closed.

Restriction:
- To avoid crop injury, **DO NOT** use this tank mixture on soil with less than 0.5% organic matter, on alkaline soil with a pH over 7.4, or on all sand and on loamy sand with less than 2% organic matter.

Sharda Metolachlor 84.4EC-D + Imazaquin + Paraquat or Glyphosate glyphosate
On coarse soils, apply 1.0 pt./A of **Sharda Metolachlor 84.4EC-D** + 0.67 pt./A of Imazaquin. On medium soils, apply 1.33 pts./A of **Sharda Metolachlor 84.4EC-D** + 0.67 pt./A of Imazaquin. On fine soils, apply 1.67 pts./A of **Sharda Metolachlor 84.4EC-D** + 0.67 pt./A of Imazaquin.

Restrictions:
- **DO NOT** apply within 90 days of harvest.
- **DO NOT** graze or feed treated soybean forage, hay or straw to livestock or illegal residues may result.

Sharda Metolachlor 84.4EC-D + Lorox + Paraquat or Glyphosate
On coarse soils*, apply 1.0 pt./A of **Sharda Metolachlor 84.4EC-D** + 1-1.5 lbs./A of **Linuron** DF**. On medium soils, apply 1.33 pts./A of **Sharda Metolachlor 84.4EC-D** + 1-2 lbs./A of **Linuron** DF. On fine soils, apply 1.33-1.67 pts./A of **Sharda Metolachlor 84.4EC-D** + 2-3 lbs./A of **Linuron** DF.

***Restrictions:**
- **DO NOT** use on loamy sand except in the northeastern U.S. on loamy sand with over 1% organic matter or injury may occur.
- **DO NOT** use on sand, gravelly soils, or exposed subsoils, or injury may occur.
- **DO NOT** use on soil with less than 0.5% organic matter or crop injury may occur.

When using **Linuron L or **Linuron** DF, use equivalent rates. 1 pt. of **Linuron** L equals 1.0 lb. of **Linuron** DF.

Sharda Metolachlor 84.4EC-D + Linuron + Paraquat or Glyphosate
Use only where soils have 0.5-3% organic matter. On coarse soils, apply 1.0 pt./A of **Sharda Metolachlor 84.4EC-D** + 12-14 oz./A of **Linuron** Plus 60DF. On medium soils, apply 1.33 pts./A of **Sharda Metolachlor 84.4EC-D** + 14-16 oz./A of **Linuron** Plus. On fine soils, apply 1.33-1.67 pts./A of **Sharda Metolachlor 84.4EC-D** + 16-18 oz./A of **Linuron** Plus.

Restriction:
- **DO NOT** apply to sand or to any soil with pH greater than 6.8.

Sharda Metolachlor 84.4EC-D + Isoxaben + Prodamine + Paraquat or Glyphosate
Use only where soils have 0.5-3% organic matter. On coarse soils (sandy loam only), apply 1.0 pt./A of **Sharda Metolachlor 84.4EC-D** + 12-16 oz./A of Isoxaben + Prodamine 60DF. On medium soils, apply 1.33 pts./A of **Sharda Metolachlor 84.4EC-D** + 16-20 oz./A of Isoxaben + Prodamine . On fine soils, apply 1.33-1.67 pts./A of **Sharda Metolachlor 84.4EC-D** + 20-24 oz./A of Isoxaben + Prodamine .

Restriction:

- **DO NOT** apply to sand or loamy sand, or to any soil with less than 0.5% organic matter, or to any soil with pH greater than 7.0, except as in the directions for use of the Isoxaben + Prodamine label.

Sharda Metolachlor 84.4EC-D + Metribuzin + chlorimuron-ethyl + Paraquat or Glyphosate
Use only where soils have 0.5-5% organic matter. On coarse soils (except sand), apply 1.0 pt./A of **Sharda Metolachlor 84.4EC-D**, on medium soils, apply 1.33 pts./A of **Sharda Metolachlor 84.4EC-D**, and on fine soils, apply 1.33-1.67 pts./A of **Sharda Metolachlor 84.4EC-D**. Refer to the Metribuzin + chlorimuron-ethyl label for appropriate rate according to geographical location, soil and organic matter classification, pH limitations, and all other use directions.

Restriction:

- **DO NOT** apply to sand, or to any soil with less than 0.5% organic matter, or to any soil with pH greater than 7.0, except as in the directions for use of the Metribuzin + chlorimuron-ethyl label.

Sharda Metolachlor 84.4EC-D + Metribuzin + Sulfentrazone + Paraquat or Glyphosate
Use only where soils have 0.5-5% organic matter. On coarse soils (except sand), apply 1.0 pt./A of **Sharda Metolachlor 84.4EC-D** + 6*****-7 oz./A of Metribuzin + Sulfentrazone. On medium soils, apply 1.33 pts./A of **Sharda Metolachlor 84.4EC-D** + 7*****-8 oz./A of Metribuzin + Sulfentrazone. On fine soils, apply 1.33-1.67 pts./A of **Sharda Metolachlor 84.4EC-D** + 8***** to 9-10 oz./A of Metribuzin + Sulfentrazone.
*****Use this rate where the soil organic matter is in the 0.5 to less than 3.0% range.

Restriction:

- **DO NOT** apply to sand, or to any soil with less than 0.5% organic matter, or to any soil with pH greater than 6.8.

Sharda Metolachlor 84.4EC-D + Imazethapyr + Paraquat or Glyphosate
On coarse soils, apply 1.0 pt./A of **Sharda Metolachlor 84.4EC-D** + 0.25 pt./A of Imazethapyr. On medium soils, apply 1.33 pts./A of **Sharda Metolachlor 84.4EC-D** + 0.25 pt./A of Imazethapyr. On fine soils, apply 1.67 pts./A of **Sharda Metolachlor 84.4EC-D** + 0.25 pt./A of Imazethapyr.

Post-Emergence Applications
Tank Mixture with Glyphosate Products
Sharda Metolachlor 84.4EC-D at 1.0-1.33 pts./A may be tank mixed with glyphosate products at labeled rates and applied from emergence up through the third trifoliate leaf stage of Glyphosate Ready or glyphosate-tolerant soybeans. **Sharda Metolachlor 84.4EC-D** alone will not control emerged weeds. Use this treatment only on soybeans designated for use with glyphosate (e.g. Glyphosate Ready or glyphosate-tolerant soybeans). The glyphosate product must be registered for post-emergence use in Glyphosate Ready or glyphosate-tolerant soybeans.

Tank Mixture with Glufosinate Ammonium (Liberty) Products
Sharda Metolachlor 84.4EC-D at 1.0-1.33 pts./A may be tank mixed with glufosinate products at labeled rates and applied from emergence up through the third trifoliate leaf stage of soybeans. **Sharda Metolachlor 84.4EC-D** alone will not control emerged weeds. Use this treatment only on soybeans designated for use with glufosinate (e.g. Liberty Link).

Follow the tank mix product label for adjuvant recommendations.

Precaution: The use of adjuvants such as COC or UAN with **Sharda Metolachlor 84.4EC-D** may result in temporary crop injury.

Restrictions:

- To avoid possible illegal residues when **Sharda Metolachlor 84.4EC-D** is applied post-emergence to soybeans, **DO NOT** apply more than 1.33 pts./A post-emergence.
- **DO NOT** graze or feed treated forage or hay from soybeans to livestock following a post-emergence application of **Sharda Metolachlor 84.4EC-D**.
- To avoid possible illegal residues when **Sharda Metolachlor 84.4EC-D** is applied post-emergence to soybeans, make post-emergence application at least 90 days before harvest.

STORAGE AND DISPOSAL

DO NOT contaminate water, food, or feed by storage or disposal.

Pesticide Storage: This product may be stored at temperatures down to 30°F below 0°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 ¼ 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 ¼ 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.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of Sharda USA LLC or Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Sharda USA LLC and Seller harmless for any claims relating to such factors.

Sharda USA LLC warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under conditions not reasonably foreseeable to or beyond the control of Seller or Sharda USA LLC and Buyer and User assume the risk of any such use. To the extent consistent with applicable law, Sharda USA LLC, MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

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2	[Handle with Care]
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