



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs  
Registration Division (7505T)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460

EPA Reg. Number:

94730-37

Date of Issuance:

12/7/22

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

GCS S-Metolachlor 82.4% EC

Name and Address of Registrant (include ZIP Code):

Generic Crop Science, LLC  
c/o Wagner Regulatory Associates, Inc.  
P.O. Box 640  
Hockessin, DE 19707

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

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

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

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.
2. Submit one copy of the final printed label for the record before you release the product for shipment.

*Continues on page 2*

Signature of Approving Official:

Mindy Ondish, Product Manager 23  
Herbicide Branch, Registration Division (7505T)

Date:

12/7/22

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

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

Please note that the following brand names have been added to the product record:

- Farmers First S-Metolachlor 82.4% EC
- Farmers First S-Metolachlor EC
- Farmers First S-Metolachlor II EC

Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 12/22/2021
- Alternate CSFs #1-5 dated 12/22/2021

If you have any questions, please contact Endia Blunt at 202-566-2505 or at [blunt.endia@epa.gov](mailto:blunt.endia@epa.gov).

Enclosure

[MASTER LABEL]

**ACCEPTED**

12/07/2022

Under the Federal Insecticide, Fungicide  
and Rodenticide Act as amended, for the  
pesticide registered under  
EPA Reg. No. 94730-37

S-METOLACHLOR    GROUP    15    HERBICIDE

# GCS S-Metolachlor 82.4% EC

## ABN: Farmers First™ S-Metolachlor 82.4% EC; Farmers First™ S-Metolachlor EC; Farmers First™ S-Metolachlor II EC

For Weed Control in Corn; Cotton; Grasses Grown For Seed; Horseradish; Legume Vegetables; Peanuts; Potatoes; Pumpkin; Rhubarb; Safflowers; Sorghum, (Forage, Grain and Sweet); Soybean; Sugar Beets; Sunflowers; and Tomatoes.

ACTIVE INGREDIENT:	WT. BY %
S-metolachlor*.....	82.4%
OTHER INGREDIENTS: .....	17.6%
TOTAL: .....	100.0%

\*CAS No. 87392-12-9

This product is formulated as an Emulsifiable Concentrate (EC) and contains the equivalent of 82.4% or 7.70 lbs. of active ingredient per gallon.

### KEEP OUT OF REACH OF CHILDREN WARNING / AVISO

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	
<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF ON SKIN OR CLOTHING:</b>	<ul style="list-style-type: none"> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to by a poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>
<b>IF INHALED:</b>	<ul style="list-style-type: none"> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible.</li> <li>Call a poison control center or doctor for further treatment advice.</li> </ul>
HOTLINE NUMBERS	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. For 24-Hour Medical Emergency Assistance (Human or Animal), call Poison Control: <b>1-800-222-1222</b> . For Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), call CHEMTREC: <b>1-800-424-9300</b> .	

[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.]]

**Manufactured For [By]:**  
Generic Crop Science, LLC  
1887 Whitney Mesa Dr., #9740  
Henderson, NV 89014

**EPA Reg. No.: 94730-37**  
**EPA Est. No.: XXXXX-XX-XXX**

**Net Contents:** \_\_\_\_\_ [Gals./L]

[Contains S-Metolachlor, the same active ingredient used in Dual II Magnum.]

[GCS S-Metolachlor 82.4% EC is not manufactured, or distributed by Syngenta Crop Protection, seller of Dual II Magnum]

Sale, use and distribution of this product in Nassau and Suffolk Counties in the State of New York is prohibited.

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### WARNING

Causes substantial but temporary eye injury. Harmful if swallowed or absorbed through skin. Do not get in eyes or on clothing. Avoid contact with skin. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

##### All applicators and other handlers must wear:

- Protective eyewear such as goggles, face shield, or safety glasses
- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of barrier laminate or Viton® ≥14 mils
- Shoes plus socks

##### User Safety Requirements

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

##### Engineering Controls

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

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides, the handler PPE requirements may be reduced or modified as specified in the WPS.

#### USER SAFETY RECOMMENDATIONS

##### Users should:

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. If pesticide gets on skin, wash immediately with soap and water.
- 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 highwater mark. Do not contaminate water when disposing of equipment wash water or rinsate.

##### Groundwater Advisory

S-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 rain water. 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 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, call Generic Crop Science, LLC at 1-844-200-FARM (3276).

##### Mixing/Loading/Application Instructions

Care must be taken when using this product to prevent back-siphoning into wells, spills, or improper disposal of excess pesticide, spray mixtures, or rinsates. Check-valves or anti-siphoning devices must be used on all mixing and/or irrigation equipment.

- This product must not be mixed or loaded within 50 ft. of perennial or intermittent streams and rivers, natural or impounded lakes and reservoirs.
- This product must not be mixed/loaded or used within 50 ft. of all wells, including abandoned wells, drainage wells, and sink

holes.

- Operations that involve mixing, loading, rinsing, or washing of this product into or from pesticide handling or application equipment or containers within 50 ft. of any well are prohibited, unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad.
  - Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or wash water, and rain water that may fall on the pad.
  - Surface water shall not be allowed to either flow over or from the pad, which means the pad must be self-contained.
  - The pad shall be sloped to facilitate material removal.
  - An unroofed pad shall be of sufficient capacity to contain at a minimum 110% of the capacity of the largest pesticide container or application equipment on the pad.
  - A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment capacity of 100% of the capacity of the largest pesticide container or application equipment on the pad.
- Containment capacities as described above shall be maintained at all times.

The above-specified minimum containment capacities do not apply to vehicles when delivering pesticide shipments to the mixing/loading site.

## DIRECTIONS FOR USE

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

**GCS S-Metolachlor 82.4% EC** must be used only in accordance with directions on this label.

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.

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

### Endangered Species Protection Requirements:

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

### 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 (WPS).

**Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.**

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

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

- Protective eyewear such as goggles, face shield, or safety glasses
- Coveralls
- Chemical-resistant gloves made of barrier laminate or Viton  $\geq$ 14 mils
- Shoes plus socks

### PRODUCT INFORMATION

**GCS S-Metolachlor 82.4% EC** is a combination of S-metolachlor plus the corn safener benoxacor. This product is recommended for management of the weed species listed in the **WEEDS CONTROLLED OR PARTIALLY CONTROLLED BY GCS S-METOLACHLOR 82.4% EC [THIS PRODUCT] APPLIED PRIOR TO WEED EMERGENCE** section.

This product is a selective herbicide that can be applied for control of most annual grasses and certain broadleaf weeds in corn (all types); cotton; grasses grown for seed; horseradish; legume vegetables; peanuts; potatoes; pumpkin; rhubarb; safflowers; sorghum

(forage, grain and sweet); soybean; sugar beets; sunflowers; and tomatoes.

This product is taken up by the shoots and/or roots of emerging weeds. This uptake results in the inhibition of shoot and root tissue growth soon after weed germination.

Because of this, this product will not control emerged weeds. Control weeds that are present by another means, e.g., mechanical means or by another herbicide.

### WEED RESISTANCE MANAGEMENT

S-METOLACHLOR	GROUP	15	HERBICIDE
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S-metolachlor, the active ingredient in this product, is a Group 15 herbicide based on the mode of action classification system of the Weed Science Society of America. Any weed population may contain plants naturally resistant to Group 15 herbicides. Such resistant weed plants may not be effectively managed using Group 15 herbicides but may be effectively managed utilizing another herbicide alone or in mixtures from a different group and/or by using cultural or mechanical practices. However, an herbicide mode of action classification by itself may not adequately address specific weeds that are resistant to specific herbicides. Consult your local company representative, State cooperative extension service, professional consultants, or other qualified authorities to determine appropriate actions for treating specific resistant weeds.

#### Principles of Herbicide Resistant Weed Management

##### Scout and know your field

- Know weed species present in the field to be treated through scouting and field history. An understanding of weed biology is useful in designing a resistance management strategy. Ensure the weed management program will control all weeds present.
- Fields must be scouted prior to application to determine species present and growth stage. Always apply this herbicide at the full labeled rate and correct timing for the weeds present in the field.

##### Utilize non-herbicidal practices to add diversity

- Use diversified management tactics such as cover crops, mechanical weed control, harvest weed seed control, and crop rotation as appropriate.

##### Use good agronomic practices, start clean and stay clean

- Use good agronomic practices that enhance crop competitiveness.
- Plant into weed-free fields utilizing tillage or an effective burndown herbicide for control of emerged weeds.
- Sanitize farm equipment to avoid spreading seed or vegetative propagules prior to leaving fields.

##### Difficult-to-control weeds

- Fields with difficult-to-control weeds must be planted in rotation with crops that allow the use of herbicides with an alternative mode of action or different management practices.
- Difficult-to-control weeds may require sequential applications, such as a broad-spectrum pre-emergence herbicide followed by one or more post-emergence herbicide applications. Utilize herbicides containing different modes of action effective on the target weeds in sequential applications.

##### Do not overuse the technology

- Do not use more than 2 applications of this or any other herbicide with the same mode of action in a single growing season unless mixed with an herbicide with a different mode of action which provides overlapping spectrum for difficult to control weeds.

##### Scout and inspect fields following application

- Prevent an influx of weeds into the field by controlling weeds in field borders.
- Scout fields after application to verify that the treatment was effective.
- Suspected-herbicide resistant weeds may be identified by these indicators:
  - Failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; or
  - A spreading patch of non-controlled plants of a particular weed species; or
  - Surviving plants mixed with controlled individuals of the same species.
- Report non-performance of this product to your Generic Crop Science, LLC representative. If resistance is suspected ensure weed escapes are controlled using an herbicide with an effective mode of action and/or use non-chemical means to prevent further seed production.

##### Prevent weed escapes before, during, and after harvest

- Do not allow weed escapes to produce seed or vegetative structures such as tubers or stolons which contribute to spread and survival. Consider harvest weed seed management and control weeds post-harvest to prevent seed production.

##### Resistant Weeds

- Contact your local Generic Crop Science, LLC representative, retailer, crop advisor or extension agent to determine if weeds resistant to this mode of action are present in your area. If resistant biotypes have been reported, use the full labeled rate of this product, apply at the labeled timing, and tank-mix with a different mode of action product so there are multiple effective

modes of application for each suspected resistant weed.

## APPLICATION DIRECTIONS

### Methods of Application

Applications with this product alone or in tank mixtures are permitted by ground, by air and via chemigation. Pre-plant surface, pre-plant incorporated, pre-emergence and post-emergence or lay-by applications are allowed as specified in the **CROP USE DIRECTIONS**.

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.

### Band Application

Calculate the amount of herbicide and water volume needed for band treatment by the following formula:

$$\frac{\text{Band Width in Inches}}{\text{Row Width in Inches}} \times \frac{\text{Broadcast Rate}}{\text{Acre}} = \text{Amount needed per Acre of Field}$$

### Application Equipment

- Spray equipment configuration must be arranged to provide accurate and uniform coverage of the target area and minimize potential for spray drift.
- To ensure accuracy, calibrate sprayer before each use.
- For information on spray equipment and calibration, consult spray equipment manufacturers and/or State recommendations.
- All ground, aerial, and chemigation application equipment must be properly maintained and calibrated using appropriate carriers.
- For aerial applications, use low-drift nozzles.
- For ground applications, use sprayers that provide accurate and uniform application.
- For pre-plant incorporated application, use an implement capable of providing uniform incorporation.

### Application Volume and Spray Coverage

- For ground application, apply alone or in tank mixtures in a minimum of 10 gals./A of spray mixture unless otherwise specified.
- For aerial application, apply alone or in tank mixtures in a minimum total volume of 2 gals./A of spray mixture.

### Mixing Directions

1. Thoroughly clean spray equipment before using this product. Dispose of the cleaning solution in a responsible manner.
2. Prepare no more spray mixture than is needed for the immediate operation.
3. Keep product container tightly closed when not in use.
4. Do not let the spray mixture stand overnight in the spray tank.
5. Flush the spray equipment thoroughly following each use and apply the rinsate to a previously treated area.

### GCS S-Metolachlor 82.4% EC Alone

1. Fill the spray tank  $\frac{1}{2}$  -  $\frac{3}{4}$  full with water or fluid fertilizer.
2. Add the proper amount of this product.
3. Add the rest of the water or fluid fertilizer.
4. Provide sufficient agitation during mixing and application to maintain a uniform emulsion.

### Tank-Mix Precautions

- It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions, limitations, and directions for use on all product labels involved in tank mixing. User must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.
- For tank mixtures with wettable powder or dry flowable formulations, use screens and strainers no finer than 50-mesh.
- Check compatibility (refer to the **Tank-Mix Compatibility** section) with other pesticides and/or liquid fertilizers before mixing in spray tank.

**NOTE:** Nitrogen solutions or complete fluid fertilizers may replace all or part of the water in the spray for applications prior to crop emergence. Because liquid fertilizers vary, even within the same analysis, **always check compatibility with pesticide(s) before use.** Incompatibility of tank mixtures is more common with suspensions of fertilizer and pesticides.

### Tank-Mix Compatibility

- Conduct a jar test using a 1 pt. to 1 qt. container with lid by adding water or other intended carrier such a liquid fertilizer to the jar.
- Next, add the appropriate amount of pesticides(s) or tank-mix partner(s) in their relative proportions based on label rates. Add tank-mix components separately in the order described in the tank-mixing section, **GCS S-Metolachlor 82.4% EC in Tank Mixtures**. After each addition, shake or stir gently to thoroughly mix.
- After all ingredients have been added, put the lid on the jar, tighten and invert the jar 10 times to mix.
- After mixing, let the mixture stand 15 - 30 minutes and then examine for signs of incompatibility such as obvious separation, large flakes, precipitates, gels, or heavy oily film on the jar.

- If the mixture remains mixed or can be remixed readily, it is physically compatible and can be used.
- If the mixture is incompatible, repeat the test using a compatibility agent at the recommended rate. Or, if applicable, slurry dry formulations in water before adding to the jar. If incompatibility is still observed after following these procedures, do not use the mixture.
- After compatibility testing is complete, dispose of any pesticide wastes in accordance with the **STORAGE AND DISPOSAL** section of this label.

### GCS S-Metolachlor 82.4% EC in Tank Mixtures

1. Fill the spray tank  $\frac{1}{4}$  full with water and start the agitation.
2. Check the tank mix partner label for any specific instructions pertaining to the tank mix partner.
3. Add the tank mix partner and allow it to become dispersed.
4. Add this product.
5. Add glyphosate or paraquat product if one is being used.
6. Add the remainder of the water and maintain agitation during mixing and application to maintain a uniform suspension.
7. Fluid fertilizers may replace all or part of the water as carrier for applications prior to crop emergence unless otherwise specified.

### Dry Bulk Granular Fertilizers

Many dry bulk granular fertilizers may be impregnated or coated with this product alone or selected tank mixtures which are registered for pre-plant incorporated or pre-plant surface applications which are used to control weeds in crops on this label and are not prohibited from use on dry bulk granular fertilizers.

When applying this product alone or in mixtures with dry bulk granular fertilizers, follow all directions for use, restrictions and precautions on the respective product labels, regarding target crops, rates per acre, soil texture, application methods (including timing of application), and rotational crops.

All individual State regulations relating to dry bulk granular fertilizer blending, registration, labeling, and application are the responsibility of the individual and/or company selling the herbicide/fertilizer mixture.

### Preparation of Herbicide/Fertilizer Mixtures

- Use any closed drum, belt, ribbon, or other commonly used dry bulk fertilizer blender.
- Place the nozzles used to spray this product and in mixtures onto the fertilizer in such a way as to provide uniform spray coverage.
- Use care to aim the spray directly onto the fertilizer only and to avoid spraying the walls of the blender.
- If the herbicide/fertilizer mixture is too wet, add a highly absorptive material 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 will be obtained by using a granule of 6/30 particle size or of a size similar to that of the fertilizer material being used.
- Generally, less than 2% by weight of absorptive material will be needed.
- Avoid using more than 5% absorptive material by weight.
- Calculate amounts of this product by the following formula:

$$\frac{2,000}{\text{Lb. of Fertilizer per Acre}} \times \frac{\text{Pt. of Liquid or Flowable Product}}{\text{Acre}} = \frac{\text{Pt. of Liquid or Flowable Product}}{\text{Ton of Fertilizer}}$$

### Pneumatic (Compressed Air) Application

- High humidity, high urea concentrations, low fertilizer use rates, and dusty fertilizer may cause fertilizer mixture to build up or plug the distributor head, air tubes, or nozzle deflector plates.
- To minimize buildup, premix this product with Exxon Aromatic 200 at a rate of 1 - 4 pts./gal. of this product.
- Aromatic 200 is a noncombustible/nonflammable petroleum product.
- Aromatic 200 may be used in either a fertilizer blender or through direct injection systems.
- Avoid drying agents when using Aromatic 200.

### Precautions

- Use mixtures of this product and Aromatic 200 on dry fertilizer only. Poor results or crop injury may result if these mixtures are used in water or liquid fertilizer solutions for spraying applications.
- When impregnating in a blender before application, a drier mixture can be attained by substituting a drying agent for Aromatic 200.
- Agsorb® FG or drying agents of 6/30 particle size will provide best results.
- When possible, avoid drying agents when using on-board impregnation equipment.

### To Avoid Potential for Explosion:

- Do not impregnate this product alone or in mixtures on ammonium nitrate, potassium nitrate, or sodium nitrate, either alone or in blends with other fertilizers.
- Do not use this product alone or in mixtures on straight limestone, since absorption will not be achieved. Fertilizer blends



containing limestone can be impregnated.

### Application Instructions

- Apply 200 - 700 lbs. of the herbicide/fertilizer mixture per acre.
- For best results, apply the mixture uniformly to the soil with properly calibrated equipment immediately after blending.
- Uniform application of the herbicide/fertilizer mixture is essential to prevent possible crop injury.
- Non-uniform application may also result in unsatisfactory weed control. In areas where conventional tillage is practiced, a shallow incorporation of the mixture into the soil may improve weed control.
- On fine- or medium-textured soils in areas where soil incorporation is not planned, i.e., reduced tillage situations or in some conventional till situations, make applications approximately 30 days before planting to allow moisture to move the herbicide/fertilizer mixture into the soil.
- On coarse-textured soils, make applications approximately 14 days prior to planting.

### Application through Irrigation Systems (Chemigation)

#### Chemigation Restrictions

- **ONLY APPLY THIS PRODUCT THROUGH CENTER-PIVOT IRRIGATION SYSTEMS. DO NOT APPLY THIS PRODUCT THROUGH ANY OTHER TYPE OF IRRIGATION SYSTEM.**
- If you have questions about calibration, you must 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 when needed.

#### Operating Instructions for Chemigation

1. The system must contain a functional check-valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water-source contamination from backflow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check- valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid- operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump or piston pump), effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.

#### Specific Instructions for Public Water Systems

1. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
2. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone (RPZ), back-flow preventer or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system must be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
3. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
4. The pesticide injection pipeline must 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.
5. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, 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) 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.

#### Application Directions for Irrigation Systems

1. Prepare a mixture with a minimum of 1 part 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 equipment.
2. Maintain sufficient agitation to keep the herbicide in suspension.
3. Meter into irrigation water during entire period of water application.

4. Apply in 0.5 - 1 inch of water. Use the lower water volume (0.5 inch) on coarser 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.

#### Center Pivot Irrigation Application

- This product alone or in tank mixture with other herbicides on this label, which are registered for center pivot application, may be applied in irrigation water pre-emergence (after planting, but before weeds or crop emerge) at rates listed on this label.
- This product also may be applied post-emergence to the crop and pre-emergence to weeds in crops where post-emergence applications are allowed on this label.
- Follow all restrictions (height, timing, rate, etc.) to avoid illegal residues.
- Apply this product only through a center pivot irrigation system.
- Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

Where sprinkler distribution patterns do not overlap sufficiently, unacceptable weed control may result. Where sprinkler distribution patterns overlap excessively, crop injury may result.

#### Sprayer Cleanout

Thoroughly clean sprayer or other application device before using. Dispose of cleaning solution in a responsible manner. Do not use a sprayer or applicator contaminated with any other materials, or crop damage or clogging of the application device may result.

### REPLANT AND ROTATIONAL CROP RESTRICTIONS

#### Replant and Rotational Crops

- If a crop treated with this product is lost, any crop on this label may be replanted or rotated at any interval provided that the rate of this product applied to the previous crop was not greater than the labeled rate for the crop to be replanted.
- This product may be applied again following crop replanting provided the total annual maximum rate for that crop is not exceeded.

The crops listed in the table below and in the **Additional Rotational Crop Options** section may be planted at the specified interval following application of this product.

Crop	Plant-Back Interval
Alfalfa	4 months
Barley Oats Rye Wheat	4 ½ months
Clover (seeded)	9 months
Buckwheat Rice Tobacco	Next Spring following treatment
All other crops not listed above or in the <b>Additional Rotational Crop Options</b> section.	12 months
<b>Precaution:</b>	
• Refer to the <b>Limited Water or Irrigation Conditions</b> section for rotational crop instructions when water or irrigation is limited.	
<b>ROTATIONAL CROPS USE RESTRICTIONS</b>	
• <b>DO NOT</b> rotate to alfalfa or clover for 12 months if more than 1.9 lbs. a.i. per acre (1.98 pts. of this product) was applied in the previous crop.	
• <b>DO NOT</b> rotate to alfalfa or clover for 12 months if lay-by or other post-emergence applications of this product were made in the previous crop.	

#### Additional Rotational Crop Options

This is a listing of rotational crop options that are made possible through S-metolachlor tolerances which were established by the EPA as crop groupings.

For the crop groups and crop subgroups below, not all crops within each group are specifically listed. Where a crop group or crop subgroup is listed, the plant-back interval applies to all the respective crops in that specific EPA crop group or EPA crop subgroup.

Crop Group or Crop Subgroup	Maximum Rate Previously Applied to the Field (Pts./A)	Plant-Back Interval
Cilantro Spinach	0.99	60 days
Subgroup 1B: Vegetable root (except sugarbeet, except carrot) Beet, garden Burdock, edible Celeriac Chervil, turnip-rooted	1.32	60 days
Parsnip Radish Radish, oriental Rutabaga		

Chicory Ginseng Horseradish Parsley, turnip-rooted	Salsify Salsify, black Salsify, Spanish Skirret Turnip		
Subgroup 3-07B: Onion, green Chive Chive, Chinese Leek, lady's Leek Leek, wild	Onion, Beltsville bunching Onion, fresh Onion, green Onion, Welsh Shallot		
Subgroup 4-16B : Brassica, leafy greens Bok choy Broccoli, Chinese Broccoli, Cavolo Cabbage, Chinese (Napa) Collards	Kale Greens, mustard Greens, turnip		
Crop Group 9: Vegetable, cucurbit Cantaloupe Citron Melon Cucumber Gourd Muskmelon	Pumpkin Squash, Summer Squash, Winter Watermelon		
Carrot Leaf Lettuce Sesame	Strawberry Swiss Chard	1.32	60 days
Group 8-10: Vegetable fruiting (except tabasco pepper) Eggplant Groundcherry ( <i>Physalis</i> spp.) Okra Pepino Pepper, bell Pepper, chili	Pepper, cooking Pepper, pimento Pepper, sweet Tomatillo Tomato	1.66	60 days
Subgroup 1C: Tuberous and Corm Vegetables Arracacha Arrowroot Artichoke, Chinese Artichoke, Jerusalem Canna, edible Cassava, bitter Cassava, sweet Chayote (root) Chufa	Dasheen (taro) Ginger Leren Potato Potato, sweet Tanier Turmeric Yam bean Yam, true		
Subgroup 3-07A: Onion, bulb Garlic, bulb Garlic, great headed	Onion, dry bulb Shallot		
Subgroup 22A: Stalk and stem vegetable (except Kohlrabi) Agave Asparagus Celtuce	Fennel, Florence Fern, edible Kale, sea	1.98	60 days
Subgroup 22B: Leaf petiole vegetable Cardoon Celery, Chinese	Celery Rhubarb		
Subgroup 5-16: Vegetable, <i>Brassica</i> , head and stem Broccoli Brussel sprouts Cabbage	Cabbage, Chinese Cauliflower		
Kohlrabi Lettuce, head			
<b>Precaution:</b>			
<ul style="list-style-type: none"> <li>Refer to the <b>Limited Water or Irrigation Conditions</b> section for rotational crop instructions when water or irrigation is limited.</li> </ul>			
<b>ADDITIONAL ROTATIONAL CROP USE RESTRICTIONS</b>			
<ul style="list-style-type: none"> <li><b>DO NOT</b> make a second application of an S-metolachlor containing product to these rotational crops within 60 days of the original application.</li> </ul>			

- If the rate of this product applied in the previous crop was greater than the rate listed in the table, these crops cannot be planted until the following Spring.

### Limited Water or Irrigation Conditions

When planting rotational crops, special attention must be given to the amount of rainfall and type of irrigation used. Rotational crops listed on this label are safe for planting after application with this product, provided the rotational interval is followed and the preceding crop received natural rainfall or overhead irrigation.

When non-overhead watering methods (e.g., drip tape, furrow irrigation, etc.) are used, the areas of the field not receiving water (e.g., furrows when drip irrigated or bed tops when furrow irrigated) will have a higher residue of this product remaining in the soil resulting in a significant increase in the rotational crop injury risk.

To reduce the risk of rotational crop injury, thoroughly incorporate the treated field to a depth of 3 - 4 inches before planting the rotational crop. For more thorough incorporation, till the soil in 2 different directions (cross-till). Even with thorough tillage, injury to rotational crops is still possible following non-overhead watering methods or limited moisture conditions.

### COVER CROPS

A cover crop can be an important tool for the overall farm cropping system. Cover crops are planted for conservation purposes, soil erosion control, soil health improvement, water quality improvement and weed management. A cover crop can be a single crop or a combination of crops, including grasses and/or broadleaf crops.

After harvest of a crop treated with this product, planting of a cover crop is allowed provided the cover crop is not grazed or fed to livestock nor harvested for food. Terminate the cover crop through natural causes such as frost or intentional termination by herbicide application, crimping, rolling, tillage or cutting.

All possible cover crops or cover crop combinations have not been tested for tolerance to this product. Before planting the cover crop, determine the level of tolerance for the intended cover crops by conducting a field bioassay. Refer to the **Field Bioassay for Cover Crops** section for instructions on how to conduct a field bioassay.

### Field Bioassay for Cover Crops

A field bioassay is a method of determining if herbicide residues are present in the soil at concentrations high enough to adversely affect crop growth.

Conduct the field bioassay by planting several strips of the desired cover crop across the field which has been previously treated with this product. Plant the cover crop strips perpendicular to the direction of the product application. The strips must be located so that all the different field conditions are encountered, including differences in field terrain, soil texture, organic matter, pH, and drainage.

If the cover crop does not show adverse effects such as crop injury and/or stand reduction, the field can be planted to this cover crop. If injury and/or stand reduction are visible, wait 2 - 4 weeks for further herbicide degradation to occur and repeat the bioassay.

Alternatively, select a different cover crop and repeat the bioassay. Only plant cover crops that show acceptable tolerance in the field bioassay.

## RESTRICTIONS AND PRECAUTIONS

### Use Restrictions

- **DO NOT** sell, use, or distribute this product in Nassau and Suffolk Counties in the State of New York.
- **DO NOT** use in nurseries, turf, or landscape plantings.
- **DO NOT** apply this product through any type of irrigation system except center pivot systems.

### Use Precautions

- Avoid application under conditions which favor runoff or wind erosion of soil containing this product to non-target areas.
- To prevent off-site movement due to runoff or wind erosion:
  - Avoid treating powdery dry or light sand soils when conditions are favorable for wind erosion. Under these conditions, settle the soil surface first by rainfall or irrigation.
  - Avoid application to impervious substrates, such as paved or highly compacted surfaces.
  - Avoid use of tailwater from the first flood or furrow irrigation of treated fields to treat non-target crops, unless at least 0.5 inch of rainfall has occurred between application and the first irrigation.
- Use of a sprayer or applicator contaminated with any other materials, may result in crop damage or clogging of the application device.
- Avoid spray overlap, as crop injury may result.
- To avoid spray drift, avoid making applications under windy conditions.
- Avoid aerial application under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur.
- Injury may occur following the use of this product under abnormally high soil moisture conditions during early development of the crop.

- Dry weather following application of this product may reduce weed control. Cultivate if weeds develop.
- To avoid crop injury, avoid the use of a herbicide/fertilizer mixture on crops where bedding occurs.
- Avoid application to humans or animals. Flagmen and loaders must avoid inhalation of spray mist and prolonged contact with skin.

#### **MANDATORY SPRAY DRIFT MANAGEMENT**

##### **Ground Boom Applications**

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

##### **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.

##### **Boomless Ground Applications:**

- Applicators are required to select the nozzle and pressure that deliver a medium or coarser droplet size (ASABE S572.3) for all applications.
- Do not apply when wind speeds exceed 15 mph 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.

##### **Boomless Ground Applications:**

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

##### **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.

**WEEDS CONTROLLED OR PARTIALLY CONTROLLED BY GCS S-METOLACHLOR 82.4% EC APPLIED PRIOR TO WEED EMERGENCE****PARTIAL WEED CONTROL**

Where reference is made to weeds partially controlled, partial control can either mean erratic control from good to poor, or consistent control at a level below that generally considered acceptable for commercial weed control. Control of these weeds can be erratic, due partially to variable weather conditions.

Common Name	Scientific Name	Weed Type	Control (C) or Partial Control (PC)
Barnyardgrass	<i>Echinochloa crus-galli</i>	Grass	C
Crabgrass, large	<i>Digitaria ischaemum</i>	Grass	C
Crabgrass, smooth	<i>Digitaria sanguinalis</i>	Grass	C
Crowfootgrass	<i>Dactyloctenium aegyptium</i>	Grass	C
Cupgrass, Prairie	<i>Eriochloa contracta</i>	Grass	C
Cupgrass, Southwestern	<i>Eriochloa acuminata</i>	Grass	C
Cupgrass, woolly	<i>Eriochloa villosa</i>	Grass	PC
Foxtail, bristly	<i>Setaria verticillata</i>	Grass	C
Foxtail, giant	<i>Setaria faberi</i>	Grass	C
Foxtail, green	<i>Setaria viridis</i>	Grass	C
Foxtail, millet	<i>Setaria italica</i>	Grass	C
Foxtail, yellow	<i>Setaria pumila</i>	Grass	C
Goosegrass	<i>Eleusine indica</i>	Grass	C
Johnsongrass (seedling)	<i>Sorghum halepense</i>	Grass	PC
Millet, wild-proso	<i>Panicum miliaceum</i>	Grass	PC
Panicum, fall	<i>Panicum dichotomiflorum</i>	Grass	C
Panicum, Texas	<i>Panicum texanum</i>	Grass	PC
Rice, red	<i>Oryza sativa</i>	Grass	C
Sandbur, field	<i>Cenchrus spinifex</i>	Grass	PC
Ryegrass, Italian	<i>Lolium multiflorum</i>	Grass	C
Sandbur, Southern	<i>Cenchrus echinatus</i>	Grass	PC
Shattercane	<i>Sorghum bicolor</i>	Grass	PC
Signalgrass, broadleaf	<i>Urochloa platyphylla</i>	Grass	C
Sorghum (volunteer)	<i>Sorghum bicolor</i>	Grass	PC
Witchgrass	<i>Panicum capillare</i>	Grass	C
Amaranth, Palmer	<i>Amaranthus palmeri</i>	Broadleaf	C
Amaranth, Powell	<i>Amaranthus powellii</i>	Broadleaf	C
Beggarweed, Florida	<i>Desmodium tortuosum</i>	Broadleaf	PC
Carpetweed	<i>Mollugo verticillata</i>	Broadleaf	C
Eclipta	<i>Eclipta prostrata</i>	Broadleaf	PC
Galinsoga, hairy	<i>Galinsoga quadriradiata</i>	Broadleaf	C
Galinsoga, smallflower	<i>Galinsoga parviflora</i>	Broadleaf	C
Nightshade, Eastern black	<i>Solanum ptychanthum</i>	Broadleaf	C
Nightshade, hairy	<i>Solanum physalifolium</i>	Broadleaf	PC
Pigweed, prostrate	<i>Amaranthus blitoides</i>	Broadleaf	C
Pigweed, redroot	<i>Amaranthus retroflexus</i>	Broadleaf	C
Pigweed, smooth	<i>Amaranthus hybridus</i>	Broadleaf	C
Pigweed, tumble	<i>Amaranthus albus</i>	Broadleaf	C
Purslane, common	<i>Portulaca oleracea</i>	Broadleaf	PC
Pusley, Florida	<i>Richardia scabra</i>	Broadleaf	C
Spiderwort, tropical	<i>Commelina benghalensis</i>	Broadleaf	C
Waterhemp	<i>Amaranthus tuberculatus</i>	Broadleaf	C
Nutsedge, yellow	<i>Cyperus esculentus</i>	Sedge	C

**Procedures that might improve control of weeds listed above:**

- Thoroughly till soil to destroy germinating and emerged weeds.
- If this product is to be used pre-emergence, apply at planting or immediately after planting.

- If available, sprinkler irrigate within 2 days after application. Apply 0.5 - 1 inch of water. Use lower water volume (0.5 inch) on coarse-textured soils and higher volume (1 inch) on fine-textured soils.
- If irrigation is not possible and rain does not occur within 2 days after planting and application, weed control may be decreased. Under these conditions, make a uniform, shallow cultivation as soon as weeds emerge or apply an appropriately labeled herbicide to control emerged weeds.

### CROP USE DIRECTIONS

#### SOIL TEXTURES

Where rates are based on coarse-, medium-, or fine-textured soils, it is understood that soil textural classes are generally categorized as follows:

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

### CORN

#### Fall, Pre-Plant Surface, Pre-Plant Incorporated, Pre-Emergence, or Post-Emergence Applications

Crops (including cultivars, varieties, and/or hybrid of these)			
Field Corn	Popcorn	Seed Corn	Sweet Corn
Application Timing	Rate (Pts./A)	Use Directions	
<b>Fall Application for Spring Weed Control</b>  <b>For use in the following states:</b> <b>Iowa</b> <b>Illinois</b> <b>Minnesota</b> <b>Nebraska</b> <b>North Dakota</b> <b>South Dakota</b> <b>Wisconsin</b>	For minimum-till or no-tillage systems on soils with $\geq 2.5\%$ organic matter, apply rate based on soil texture:  Medium Soil: 1.66 – 1.98 pts./A  Fine Soil: 1.98 pts./A	Apply after harvest when the sustained soil temperature at a 4-inch depth is less than 55°F and falling.  Apply to ground that will be planted to corn the following spring.  Apply after September 30 <sup>th</sup> in ND, SD, MN, WI and north of Route 30 in IA.  Apply after October 15 <sup>th</sup> North of Route 91 in NE and south of Route 30 in IA.  Apply after October 31 <sup>st</sup> North of Route 136 in IL.  When a fall and/or a spring tillage follows application, do not exceed an incorporation depth of 2 - 3 inches.  Minimize furrow and ridge formation in the tillage operations.	
<b>Fall Application for Residual Control of Glyphosate-Resistant Italian Ryegrass (<i>Lolium multiflorum</i>)</b>	1.32 - 1.66 pts./A  Use the lower rate for coarse-textured soils and the higher rate for fine-textured soils.	Apply from September 1 <sup>st</sup> - December 1 <sup>st</sup> after harvest of the previous crop and prior to Italian ryegrass emergence.  If tillage follows application, do not incorporate to a depth greater than 2 - 3 inches.  If glyphosate resistant Italian ryegrass is emerged at the time of application, a paraquat brand herbicide can be tank-mixed with this product to control emerged ryegrass.  Other registered herbicides may be tank mixed with this product for control or improved control of other weeds present at the time of application.	
<b>Fall Application for Residual Control or Suppression of Yellow Nutsedge (<i>Cyperus esculentus</i>) the Following Spring in ID, OR and WA</b>	1.32 pts./A	Apply in the fall after the harvest of the previous crop but before freeze-up.  Application can be surface-applied or incorporated.  If tillage follows application, do not incorporate to a depth greater than 2 - 3 inches.	
<b>Early Pre-plant Surface Application</b>	Coarse Soil: 1.32 pts./A  Medium Soil: 1.66 pts./A  Fine Soil: 1.98 pts./A  For extended residual control or control of heavy weed infestations up to 2.58 pts./A is	Apply up to 14 days prior to planting on coarse soils.  Apply up to 30 days before planting, on medium- and fine-textured soils.	

	allowed.	
<b>Pre-plant Incorporated</b>	<p>For all applications use the rate for the specific soil texture and organic matter (OM) as follows:</p> <p>Coarse Soil: 0.99 - 1.32 pts./A; &lt;3% OM 1.32 pts./A; ≥ 3% OM</p> <p>Medium Soil: 1.32 - 1.66 pts./A</p> <p>Fine Soil: 1.32 - 1.66 pts./A; &lt;3% OM 1.66 – 1.98 pts./A; ≥ 3% OM</p> <p>For extended residual control or control of heavy weed infestations up to 2.58 pts./A is allowed.</p>	<p>Apply within 14 days of planting.</p> <p>Apply to the soil and incorporate into the top 2 inches of soil.</p> <p>Use a pre-plant incorporated application if furrow irrigation is used or when a period of dry weather after application is expected.</p> <p>If crop will be planted on beds, apply and incorporate after bed formation, unless specified otherwise.</p> <p><b>For California Only:</b> Broadcast this product alone or with tank mix partners to the soil and thoroughly incorporate with a disk or similar implement set to till 4 - 6 inches deep. For more thorough incorporation, till the soil in 2 different directions (cross-till). Corn may be planted on flat surface or on beds. Use caution when forming the beds to ensure that only soil from the treated zone is used (i.e., do not bring untreated soil to soil surface). If application is made to preformed beds, incorporate with a tillage implement set to till 2 - 4 inches deep. Use care during tilling to keep the treated, tilled soil on the beds.</p>
<b>Pre-emergence</b>	<p>For all applications use the rate for the specific soil texture and organic matter (OM) as follows:</p> <p>Coarse Soil: 0.99 - 1.32 pts./A; &lt;3% OM 1.32 pts./A; ≥ 3% OM</p> <p>Medium Soil: 1.32 - 1.66 pts./A</p> <p>Fine Soil: 1.32 - 1.66 pts./A; &lt;3% OM 1.66 – 1.98 pts./A; ≥ 3% OM</p> <p>For extended residual control or control of heavy weed infestations up to 2.58 pts./A is allowed.</p>	<p>Apply after planting but before crop emerges.</p> <p><b>For California Only:</b> Apply after planting. Water with sprinkler or flood irrigation within 7 - 10 days.</p>
<b>Post-emergence or Lay-By</b>	0.99 – 1.98 pts./A	<p>Apply after corn emergence up until corn reaches 40 inches in height.</p> <p>Apply to extend the duration of weed control in corn following any pre-plant surface-applied, pre-plant incorporated, or pre-emergence herbicide application, including this product.</p> <p>For best results, make applications prior to weed emergence and directed toward the base of corn plants in excess of 5 inches tall.</p>
<b>For Weed Control:</b>		
<ul style="list-style-type: none"> <li>Refer to the <b>WEEDS CONTROLLED OR PARTIALLY CONTROLLED</b> section for list of weeds.</li> </ul>		
<b>Tank Mix or Sequential Application Options:</b>		
<ul style="list-style-type: none"> <li>Refer to the <b>Tank-Mix Combinations for Corn</b> for tank-mix options.</li> </ul>		
<b>Resistance Management:</b>		
<ul style="list-style-type: none"> <li>Refer to the <b>WEED RESISTANCE MANAGEMENT</b> section.</li> </ul>		
<b>Precautions:</b>		
<ul style="list-style-type: none"> <li>For pre-plant surface application, to the extent possible, avoid moving treated soil out of the row or moving untreated soil to the surface during planting or weed control will be diminished.</li> <li>Use on peat or muck soils will results in reduced weed control.</li> </ul>		
<b>USE RESTRICTIONS</b>		
<ul style="list-style-type: none"> <li>Refer to the <b>RESTRICTIONS AND PRECAUTIONS</b> section for additional product use restrictions.</li> <li><b>Maximum Single Application Rate:</b> 2.58 pts./A <ul style="list-style-type: none"> <li><b>DO NOT</b> apply more than 2.58 pts./A in a single pre-emergence application.</li> <li><b>DO NOT</b> apply more than 1.98 pts./A in a single post-emergence application.</li> </ul> </li> <li><b>Minimum Application Interval:</b> Not Applicable</li> <li><b>Maximum Annual Rate:</b> 3.87 pts./A/year <ul style="list-style-type: none"> <li><b>DO NOT</b> exceed 3.71 lbs. a.i./A/year of S-metolachlor-containing products.</li> </ul> </li> <li>The combined total amount of this product from all applications in the fall plus spring must not exceed the maximum allowed annual rate.</li> <li><b>DO NOT</b> make more than 1 fall application per crop.</li> </ul>		



- **DO NOT** apply to frozen ground.
- **DO NOT** graze or feed forage for 30 days following application.
- **Pre-harvest Interval (PHI):**
  - Sweet corn ears: 30 days

**Tank-Mix Combinations for Corn**

Application	Tank-Mix Brands	Use Directions
<b>Burndown Weed Control</b>	AAtrex® brands Gramoxone brands Glyphosate brands Princep brands Roundup® brands	<p>Apply before, during or after planting, but before corn emerges.</p> <p>Apply the glyphosate or Roundup brands in water or fluid fertilizer with ground equipment.</p> <p>Gramoxone brands will not control weeds taller than 6 inches.</p> <p>Apply AAtrex tank mixture before weeds exceed 3 inches in height. Add non-ionic surfactant (NIS) at 1 - 2 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).</p>
<b>Pre-plant Surface Pre-plant Incorporated Pre-emergence</b>	AAtrex brands Balance® Flexx Princep® brands Atrazine 4L brands	<p>These tank mixes may be used to broaden the weed control spectrum in corn beyond that of this product alone.</p> <p>Use the Balance Flexx mixture on <b>field corn only</b>.</p>
<b>Post-emergence</b>	AAtrex brands Atrazine 4L brands	<p>Apply before grass and broadleaf weeds pass the 2-leaf stage and before corn exceeds 12 inches in height. Application to weeds larger than the 2-leaf stage will generally result in unsatisfactory control.</p> <p>Occasionally, some corn leaf burn may result, but this will likely not affect later growth or yield.</p> <p>Do not apply the post-emergence tank mixes in fluid fertilizer, or severe crop injury may occur.</p>
<b>Post-emergence Application to Glufosinate Resistant Corn</b>	Liberty® Glufosinate 280SL brands	<p>This tank mix provides post-emergence control of a broad spectrum of grass and broadleaf weeds on the Liberty label and residual control of weeds on the this label.</p> <p>Refer to this label and the Liberty label for rates recommended for weed populations and soil texture.</p> <p>Apply only to corn that is resistant to glufosinate.</p>
<b>Post-emergence Application to Glyphosate Resistant Corn</b>	Glyphosate brands and Roundup brands	<p>These tank mixes provide post-emergence control of weeds on the glyphosate brand label and residual control of weeds on this label.</p> <p>Application may be made from corn emergence until 30 inches tall or the V8 stage (8 leaves with collars), whichever comes first.</p> <p>Refer to this label and the glyphosate brands label for rates recommended for weed populations and soil texture.</p> <p>Apply only to corn that is resistant to glyphosate.</p>

**Precautions:**

- This product in any tank mixture for corn may be applied in water or fluid fertilizer before corn emerges. **After corn emergence**, use only water as a carrier when this product is applied.
- Do not apply combinations containing paraquat brands in suspension-type liquid fertilizers, because the activity of paraquat will be reduced.

**TANK-MIX USE RESTRICTIONS**

- All application rates, precautions, and use restrictions cited in the **CORN - Fall, Pre-Plant Surface, Pre-Plant Incorporated, Pre-Emergence, or Post-Emergence Applications** section for this product alone apply to tank-mixes with this product.
- 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.
- **IMPORTANT: FOR TANK MIXTURES WITH AATREX (OR OTHER BRANDS OF ATRAZINE):**
  - If applying this product in tank mixture with AAtrex, all the restrictions and rate limitations on the AAtrex label must be followed.
  - 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.

- **DO NOT** exceed a total of 2.5 lbs. a.i./A/year of atrazine-containing products.

### COTTON

#### Fall, Pre-Plant Incorporated, Pre-Emergence, or Post-Emergence Applications

Crops (including cultivars, varieties, and/or hybrids of these)		
Cotton		
Application Timing	Rate (Pts./A)	Use Directions
<b>Fall Application for Residual Control of Glyphosate-Resistant Italian Ryegrass (<i>Lolium multiflorum</i>)</b>	1.32 - 1.66 pts./A  Use the lower rate for coarse-textured soils and the higher rate for fine-textured soils.	Apply from September 1 <sup>st</sup> - December 1 <sup>st</sup> after harvest of the previous crop and prior to Italian ryegrass emergence.  If tillage follows application, do not incorporate to a depth greater than 2 - 3 inches.  If glyphosate-resistant Italian ryegrass is emerged at the time of application, a paraquat brand herbicide can be tank-mixed with this product to control emerged ryegrass.
<b>Pre-plant Incorporated (NM, OK, and TX Only)</b>	Use the following rates for the specific soil type:  Sandy Loam Soil: 0.99 pt./A  Medium Soil: 0.99 - 1.32 pts./A  Fine Soil: 1.32 pts./A	Apply to the soil and incorporate into the top inch of soil. Use a rolling cultivator or similar implement to uniformly incorporate not more than 1 inch deep.  Use a pre-plant incorporated application if furrow irrigation is used or when a period of dry weather after application is expected.  Where furrow irrigation is used, wet the top of the bed for best results.  If the crop is to be planted on beds, apply, and incorporate after bed formation.  Plant cotton below the zone of incorporation; i.e., at least 1 inch on <i>fine soils</i> and 1.5 inches on <i>coarse</i> and <i>medium soils</i> .  If incorporated prior to planting, use a planter that will result in a minimum of soil disturbance.
<b>Pre-emergence (AR, KS, LA, MS, TN, and Bootheel of MO only)</b>	Use the following rates for the specific soil type in AR, KS, LA, MS, TN, and Bootheel of MO only:  Sandy Loam Soil: 0.5 – 0.99 pt./A  Medium Soil: 0.66 - 1.32 pts./A  Fine Soil: 0.99 - 1.32 pts./A	Apply at planting or after planting, but before crop emerges.  If the crop is to be planted on beds, apply after bed formation.
<b>Pre-emergence (NM, OK, and TX only)</b>	Use the following rates for the specific soil type in NM, OK and TX only:  Sandy Loam Soil: 0.99 pt./A  Medium Soil: 0.99 - 1.32 pts./A  Fine Soil: 1.32 pts./A	Apply at planting or after planting, but before crop emerges.  If the crop is to be planted on beds, apply after bed formation.
<b>Post-emergence</b>	Use the post-emergence rates below based upon the following geographical areas:  <b>VA, NC, SC, GA, FL, and AL:</b> Apply at 0.99 - 1.32 pts./A  <b>TN, AR, KS, MS, MO, and LA:</b>	Apply broadcast over-the-top or directed to the soil surface.  In sprinkler-irrigated areas, sprinkler irrigate after application with 0.5 - 1 inch of water (0.5 inch on coarse-textured soils to 1 inch on fine-textured soils) to incorporate this product.  In furrow-irrigated areas, apply this product, incorporate with a rolling cultivator or similar implement that provides uniform shallow

	Apply at 0.5 - 1.32 pts./A  <b>TX, OK, NM, AZ, CA, and Clay Soils in AR:</b> Apply at 0.99 - 1.32 pts./A	incorporation (2 inches or less), and then irrigate.  In non-irrigated areas, if less than 0.5 inch of rainfall occurs within 10 days after application, cultivate with a rolling cultivator or similar implement that provides uniform shallow incorporation of this product.
<b>For Weed Control:</b> <ul style="list-style-type: none"> <li>Refer to the <b>WEEDS CONTROLLED OR PARTIALLY CONTROLLED</b> section for list of weeds.</li> </ul>		
<b>Tank Mix Options:</b> <ul style="list-style-type: none"> <li>Refer to the <b>Tank-Mix Combinations for Cotton</b> section for tank-mix options.</li> </ul>		
<b>Resistance Management:</b> <ul style="list-style-type: none"> <li>Refer to the <b>WEED RESISTANCE MANAGEMENT</b> section.</li> </ul>		
<b>Precautions:</b> <ul style="list-style-type: none"> <li>For best control of yellow nutsedge and suppression of seedling Johnsongrass, apply pre-plant incorporated, pre-emergence, or post-emergence to cotton and pre-emergence to weeds at the maximum rate for the soil texture, whether applied alone or in combinations.</li> <li>To avoid concentration in the seed furrow, do not make broadcast applications to cotton planted in furrows more than 2 inches deep. When making band applications to cotton planted in furrows deeper than 2 inches, ensure that band width does not exceed the width of the bottom of the furrow.</li> <li>Applying over-the-top in fluid fertilizer or any other adjuvant, surfactant, oil, or other pesticide not listed in the cotton section of this label may result in crop injury.</li> <li>In furrow-planted cotton, to avoid concentration in the furrow and potential injury, do not apply post-emergence until after first “knifing” or cultivation to level soil surface.</li> <li>This product will not control emerged weeds. Control emerged weeds with an appropriate registered foliar herbicide or by mechanical means.</li> </ul>		
<b>USE RESTRICTIONS</b>		
<ul style="list-style-type: none"> <li>Refer to the <b>RESTRICTIONS AND PRECAUTIONS</b> section for additional product use restrictions.</li> <li><b>Maximum Single Application Rate:</b> 1.66 pts./A</li> <li><b>Minimum Application Interval:</b> Not Applicable</li> <li><b>Maximum Annual Rate:</b> 2.58 pts./A/year <ul style="list-style-type: none"> <li>DO NOT exceed 2.48 lbs. a.i./A/year of S-metolachlor-containing products.</li> </ul> </li> <li><b>DO NOT</b> apply on sand or loamy sand soils, or in areas where water is likely to “pond” over the bed.</li> <li><b>DO NOT</b> apply on Taloka silt loam.</li> <li><b>DO NOT</b> use in Gaines County, TX.</li> <li><b>DO NOT</b> apply to frozen ground.</li> <li>The combined total amount of this product from all applications in the fall plus spring must not exceed the maximum allowed annual rate.</li> <li><b>Pre-harvest Interval (PHI):</b> <ul style="list-style-type: none"> <li>80 days after directed-post-emergence application.</li> <li>100 days after post-emergence over-the-top application.</li> </ul> </li> </ul>		

**Tank-Mix Combinations for Cotton**

Application	Tank-Mix Brands	Use Directions
<b>Burndown</b>	Cotoran® 4L Gramoxone brands Glyphosate brands Roundup brands	Use in applications where cotton is planted directly into a cover crop, stale seedbed, or previous crop residues.  Apply before, during or after planting, but before the cotton emerges. Apply in a minimum of 15 gallons of water or fluid fertilizer per acre with ground equipment.
<b>Pre-plant Incorporated Pre-emergence</b>	Caparol® 4L	Apply as a mixture in water or liquid fertilizer.  For pre-plant incorporated applications, plant cotton below the zone of incorporation. If incorporated before planting, use a planter that will result in a minimum of soil disturbance.
<b>Pre-emergence</b>	Cotoran 4L	Apply to the soil surface at planting or after planting, but before weeds or crop emerge.
<b>Post-emergence Directed</b>	Caparol 4L	Tank mix in water only for post-emergence-directed application in <b>AR, AZ, CA, LA, MS, NM, OK, TN, TX, and MO.</b>  Apply the tank mix in a minimum of 15 gallons of spray volume per acre. Only use water as a carrier for post-emergence applications.
<b>Post-emergence Directed Semi-Directed Over-</b>	Cotoran 4L	Do not use fluid fertilizer as a carrier for post-emergence applications.  Tank mix may be applied post-emergence to cotton but pre-

<b>the-Top Spray</b>		emergence to weeds or post-emergence to both cotton and weeds for control of weeds on the Cotoran 4L label.
<b>Post-emergence Application to Glyphosate-Resistant Cotton</b>	Glyphosate brands Roundup brands	Apply as a tank mixture in water for control of emerged weeds on the glyphosate labels and for residual pre-emergence control of weeds listed on the this label.  Adding additional spray adjuvants, surfactants, fertilizer additives, or other pesticides to a tank mixture of this product + Roundup brands applied post-emergence can result in unacceptable crop injury.  Apply only to cotton that is resistant to glyphosate.
<b>Post-emergence Application to Glufosinate-Resistant Cotton</b>	Liberty Glufosinate 280SL brands	Apply as a tank mixture in water for control of emerged weeds on the Liberty label and for residual pre-emergence control of weeds listed on this label.  Apply only to cotton that is resistant to glufosinate.

**Tank Mix Instructions:**

- Refer to the **Mixing Directions** section for tank-mix instructions.

**Precautions:**

- To avoid concentration in the seed furrow, do not make broadcast applications of this product + Caparol 4L or this product + Cotoran DF to cotton planted in furrows more than 2 inches deep. When making band applications to cotton planted in furrows deeper than 2 inches, ensure that the band width does not exceed the width of the bottom of the furrow.
- Do not apply this product + Caparol 4L post-emergence over-the-top of cotton, or injury may occur.
- For tank mixtures of this product alone or this product + Cotoran, 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.
- Do not apply combinations containing Gramoxone brands in suspension-type liquid fertilizers, as the activity of paraquat will be reduced.

**TANK-MIX USE RESTRICTIONS**

- All use restrictions cited in the **COTTON - Fall, Pre-Plant Incorporated, Pre-Emergence, or Post-Emergence Applications** section for this product alone, apply to tank-mixes with this product.
- 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.

**GRASSES GROWN FOR SEED**

<b>Crops (including cultivars, varieties, and/or hybrids of these)</b>		
Bentgrass Fine fescue	Kentucky bluegrass Orchardgrass	Perennial ryegrass Tall fescue
<b>Application Timing</b>	<b>Rate (Pts./A)</b>	<b>Use Directions</b>
<b>Established Grasses Grown for Seed Crops in Idaho, Oregon, and Washington</b>	Use the following rates for the specific grass type:  Fine fescue and perennial ryegrass: Apply 0.99 pt./A  Bentgrass, Kentucky bluegrass, orchardgrass and tall fescue: Apply 0.99 - 1.32 pts./A	Apply just before, during, or immediately following the first fall rains or just before or during a late summer or early fall irrigation, but before target grasses emerge.  Evenly spread, remove, or burn the post-harvest residue (straw) before applying this product.  In addition to controlling the weeds listed in the <b>WEEDS CONTROLLED OR PARTIALLY CONTROLLED</b> section, this product will provide pre-emergence control/suppression of volunteer seedlings of bentgrass, fine fescue spp., Kentucky bluegrass, orchardgrass, perennial ryegrass and tall fescue.  This product will also suppress or control annual bluegrass, California brome, doughstalk bluegrass, downy brome, Italian ryegrass, and rattail fescue.  Apply by ground equipment in a minimum of 10 gallons of water per acre at the recommended rate.
<b>For Weed Control:</b>		
<ul style="list-style-type: none"> <li>Refer to the <b>WEEDS CONTROLLED OR PARTIALLY CONTROLLED</b> section for list of weeds.</li> </ul>		
<b>Resistance Management:</b>		
<ul style="list-style-type: none"> <li>Refer to the <b>WEED RESISTANCE MANAGEMENT</b> section.</li> </ul>		
<b>Precautions:</b>		
<ul style="list-style-type: none"> <li>Avoid application after the 15<sup>th</sup> of November or poor control may result.</li> </ul>		

- Tank mixtures with other pesticides, or the addition of an adjuvant, can increase the risk of crop injury.
- Application to perennial ryegrass and fine fescue stands under stress may cause crop injury.
- If weed escapes occur following an application of this product, an application of a post-emergence herbicide may be necessary to control escapes.
- Control may be decreased if excessive straw from the previous harvest is present at application and/or insufficient rainfall/irrigation occurs.
- This product will not control emerged weeds. Control emerged weeds with an appropriate registered foliar herbicide or by mechanical means.

**USE RESTRICTIONS**

- Refer to the **RESTRICTIONS AND PRECAUTIONS** section for additional product use restrictions.
- The grass grown for seed crop must have at least 1 seed harvest or been established at least 1 year prior to application.
- **Maximum Single Application Rate:** 1.32 pts./A
- **Minimum Application Interval:** Not Applicable
- **Maximum Annual Rate:** 1.32 pts./A/year
  - **DO NOT** exceed 1.27 lbs. a.i./A/year of S-metolachlor-containing products.
- **DO NOT** apply this product more than once per crop year.
- **DO NOT** graze forage regrowth for 60 days following application west of the Cascades.
- **DO NOT** graze forage regrowth for 150 days following application in areas east of the Cascades.
- **Pre-harvest Interval (PHI):**
  - Hay: harvest anytime between seed harvest and the next application of S-metolachlor.

**HORSERADISH****Crops (including cultivars, varieties, and/or hybrids)**

Horseradish

Application Timing	Rate (Pts./A)	Use Directions
Pre-emergence	0.99 - 1.32 pts./A  Use lower rates on soils relatively coarse-textured and higher rates on fine-textured soils.	Apply a single broadcast application of this product to the soil surface after planting but before the crop emerges.

**For Weed Control:**

- Refer to the **WEEDS CONTROLLED OR PARTIALLY CONTROLLED** section for list of weeds.

**Resistance Management:**

- Refer to the **WEED RESISTANCE MANAGEMENT** section.

**Precaution:**

- This will not control emerged weeds. Control emerged weeds with an appropriate registered foliar herbicide or by mechanical means.

**USE RESTRICTIONS**

- Refer to the **RESTRICTIONS AND PRECAUTIONS** section for additional product use restrictions.
- **Maximum Single Application Rate:** 1.32 pts./A
- **Minimum Application Interval:** Not Applicable
- **Maximum Annual Rate:** 1.32 pts./A/year
  - **DO NOT** exceed 1.27 lbs. a.i./A/year of S-metolachlor-containing products.
- **DO NOT** apply this product more than once per crop year.
- **Pre-harvest Interval (PHI):** normal timing for horseradish

**LEGUME VEGETABLES (SUCCULENT OR DRIED), CROP GROUP 6, EXCEPT SOYBEAN****Fall, Pre-Plant Incorporated, or Pre-Emergence Applications****Crops (including cultivars, varieties, and/or hybrids of these)**

Edible Podded (only):	Edible Podded, Succulent Shelled or Dried Shelled: Pea ( <i>Pisum spp.</i> )	Edible Podded, Succulent Shelled or Dried Shelled: (continued)	Succulent Shelled or Dried Shelled: Broad bean (fava bean)
Jackbean	Dwarf pea	<b>Bean (<i>Vigna spp.</i>)</b>	<b>Dried Shelled Only:</b>
Sword bean	Edible-pod pea	Adzuki bean	Chickpea (garbanzo bean)
Soybean, (immature seed)	English pea	Asparagus bean	Guar
<b>Edible Podded, Succulent Shelled or Dried Shelled:</b>	Field pea	Blackeyed pea	Lablab bean (hyacinth bean)
Pigeon pea	Garden pea	Catjang	Grain lupin
<b>Bean (<i>Phaseolus spp.</i>)</b>	Green pea	Chinese longbean	Sweet lupin
Field bean	Snow pea	Cowpea	White lupin
Great Northern	Sugar snap pea	Crowder pea	White sweet lupin
Kidney bean		Moth bean	Lentils
		Mung bean	

Lima bean Navy bean Pinto bean Runner bean Snap bean Tepary Bean Wax Bean		Rice bean Southern pea Urd bean Yardlong bean
Application Timing	Rate (Pts./A)	Use Directions
<b>Fall Application for Spring Weed Control</b>  <b>For use in the following states:</b> <b>Iowa</b> <b>Illinois</b> <b>Minnesota</b> <b>Nebraska</b> <b>North Dakota</b> <b>South Dakota</b> <b>Wisconsin</b>	For minimum-till or no-tillage systems on soils with $\geq 2.5\%$ organic matter, apply rate based on soil texture:  Medium Soil: Apply 1.66 – 1.98 pts./A Fine Soil: Apply 1.98 pts./A	Apply after harvest when the sustained soil temperature at a 4-inch depth is less than 55°F and falling.  Apply after September 30 <sup>th</sup> in ND, SD, MN, WI and north of Route 30 in IA.  Apply after October 15 <sup>th</sup> North of Route 91 in NE and south of Route 30 in IA.  Apply after October 31 <sup>st</sup> North of Route 136 in IL.  When a fall and/or a spring tillage follows application, do not exceed an incorporation depth of 2 - 3 inches.  Minimize furrow and ridge formation in the tillage operations.
<b>Pre-plant Incorporated</b>	For all applications use the rate for the specific soil texture and organic matter (OM) as follows:  Coarse Soil: 0.99 - 1.32 pts./A; <3% OM 1.32 pts./A; $\geq 3\%$ OM  Medium Soil: 1.32 - 1.66 pts./A  Fine Soil: 1.32 - 1.66 pts./A; <3% OM 1.66 – 1.98 pts./A; $\geq 3\%$ OM	Apply to the soil and incorporate in the top 2 inches within 14 days before planting using an implement capable of providing uniform incorporation.  Use a pre-plant incorporated application if furrow irrigation is used or when a period of dry weather after application is expected.  If a crop will be planted on beds, apply and incorporate after bed formation, unless specified otherwise.  <b>For California Only for Beans, Peas and Lentils:</b> For pre-plant incorporation, broadcast alone or with tank mix partners to the soil and thoroughly incorporate with a disk or similar implement set to till 4 - 6 inches deep. For more thorough incorporation, till the soil in 2 different directions (cross-till). Crops may be planted on flat surface or on beds.  Use caution when forming the beds to ensure that only soil from the treated zone is used (i.e., do not bring untreated soil to soil surface). If application is made to preformed beds, incorporate with a tillage implement set to till 2 - 4 inches deep. Use care during tilling to keep the treated, tilled soil on the beds.
<b>Pre-emergence</b>	For all applications use the rate for the specific soil texture and organic matter (OM) as follows:  Coarse Soil: 0.99 - 1.32 pts./A; <3% OM 1.32 pts./A; $\geq 3\%$ OM  Medium Soil: 1.32 - 1.66 pts./A  Fine Soil: 1.32 - 1.66 pts./A; <3% OM 1.66 – 1.98 pts./A; $\geq 3\%$ OM	Make pre-emergence applications after planting, but before crop emerges.  <b>For California Only for Beans, Peas and Lentils:</b> Apply after planting. Water with sprinkler or flood irrigation within 7 - 10 days.
<b>For Weed Control:</b> <ul style="list-style-type: none"> <li>Refer to the <b>WEEDS CONTROLLED OR PARTIALLY CONTROLLED</b> section for list of weeds.</li> </ul>		
<b>Tank Mix Application Options:</b> <ul style="list-style-type: none"> <li>Refer to the <b>Tank-Mix Combinations for Legume Vegetables</b> section for tank-mix options.</li> </ul>		
<b>Resistance Management:</b> <ul style="list-style-type: none"> <li>Refer to the <b>WEED RESISTANCE MANAGEMENT</b> section.</li> </ul>		

<b>Precautions:</b>
<ul style="list-style-type: none"> <li>On English peas, use only pre-emergence applications for a spring treatment. If soils are cold and wet during pea germination and emergence, the use of this product may delay maturity and/or reduce yields.</li> <li>This product will not control emerged weeds. Control emerged weeds with an appropriate registered foliar herbicide or by mechanical means.</li> </ul>
<b>USE RESTRICTIONS</b>
<ul style="list-style-type: none"> <li>Refer to the <b>RESTRICTIONS AND PRECAUTIONS</b> section for additional product use restrictions.</li> <li><b>Maximum Single Application Rate:</b> 1.98 pts./A</li> <li><b>Minimum Application Interval:</b> Not Applicable</li> <li><b>Maximum Annual Rate:</b> 1.98 pts./A/year <ul style="list-style-type: none"> <li><b>DO NOT</b> exceed 1.91 lbs. a.i./A/year of S-metolachlor-containing products.</li> </ul> </li> <li>The combined total amount of this product from all applications in the fall plus spring must not exceed the maximum allowed annual rate.</li> <li><b>DO NOT</b> apply to frozen ground.</li> <li><b>Pre-harvest Interval (PHI):</b> <ul style="list-style-type: none"> <li>Forage: 60 days</li> <li>Hay: 120 days</li> </ul> </li> </ul>

**Tank-Mix Combinations for Legume Vegetables**

Application	Tank-Mix Brands	Use Directions
Pre-plant Incorporated	Treflan®	<p>For use with <b>Dry Beans</b> (Kidney, Navy, Pinto, etc.; Lima; and Snap).</p> <p>Apply up to 14 days prior to planting. Incorporate to a uniform 2-inch depth using appropriate equipment.</p> <p>Choose the rate specified on the respective labels for each product used alone, for the specific soil texture/organic matter classification and weed species expected.</p>
<b>TANK-MIX USE RESTRICTIONS</b>		
<ul style="list-style-type: none"> <li>All use restrictions cited in the <b>LEGUME VEGETABLES (SUCCULENT OR DRIED), CROP GROUP 6, EXCEPT SOYBEAN - Fall, Pre-Plant Incorporated, or Pre-Emergence Applications</b> section for this product alone apply to tank-mixes with this product.</li> <li>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.</li> </ul>		

**PEANUT****Pre-Plant Incorporated, Post-Plant Incorporated, Pre-Emergence, or Lay-By Applications**

Crops (including cultivars, varieties, and/or hybrids)		
Peanut		
Application Timing	Rate (Pts./A)	Use Directions
<b>Pre-plant Incorporated</b>  <b>Post-plant Incorporated</b>	<p>Use the following rates for the specific geography:</p> <p>Southeast: Apply 0.99 - 1.32 pts./A</p> <p>NM, OK and TX: Apply 0.79 - 1.32 pts./A</p> <p>Within the rate range, use lower rates on soils relatively coarse-textured and higher rates on fine-textured soils.</p>	<p><b>For Pre-plant Incorporation:</b> Apply within 14 days before planting.</p> <p>Apply to the soil and incorporate into the top 2 inches of soil before planting using an implement capable of providing uniform incorporation.</p> <p>Use pre-plant incorporated application if furrow irrigation is used or when a period of dry weather after application is expected.</p> <p>If peanuts will be planted on beds, apply and incorporate after bed formation.</p> <p><b>For Post-plant Incorporation:</b> Apply and shallowly incorporate into the soil after planting but before peanut germination.</p> <p>Incorporation depth and incorporating implements must be kept above the seed, or seed will be damaged.</p>
<b>Pre-emergence Lay-By</b>	<p>Use the following rates for the specific geography:</p> <p>Southeast: Apply 0.99 - 1.32 pts./A</p>	<p><b>Pre-emergence Application:</b> Apply after planting but before crop emergence. If applying at planting, apply behind the planter.</p> <p><b>Lay-By Application:</b></p>

	<p>Apply 1.32 – 1.98 pts./A pre-emergence for partial control of Florida beggarweed.</p> <p>NM, OK and TX: Apply 0.79 - 1.32 pts./A</p> <p>Within the rate range, use lower rates on soils relatively coarse-textured and higher rates on fine-textured soils.</p>	Apply to the soil immediately after the last cultivation.
<b>For Weed Control:</b> <ul style="list-style-type: none"> <li>Refer to the <b>WEEDS CONTROLLED OR PARTIALLY CONTROLLED</b> section for list of weeds.</li> </ul>		
<b>Tank Mix Options:</b> <ul style="list-style-type: none"> <li>Refer to the <b>Tank-Mix Combinations for Peanut</b> section for tank mix application options.</li> </ul>		
<b>Resistance Management:</b> <ul style="list-style-type: none"> <li>Refer to the <b>WEED RESISTANCE MANAGEMENT</b> section.</li> </ul>		
<b>Precaution:</b> <ul style="list-style-type: none"> <li>This product will not control emerged weeds. Control emerged weeds with an appropriate registered foliar herbicide or by mechanical means.</li> </ul>		
<b>USE RESTRICTIONS</b>		
<ul style="list-style-type: none"> <li>Refer to the <b>RESTRICTIONS AND PRECAUTIONS</b> section for additional product use restrictions.</li> <li><b>Maximum Single Application Rate:</b> 1.98 pts./A</li> <li><b>Minimum Application Interval:</b> Not Applicable</li> <li><b>Maximum Annual Rate:</b> 1.98 pts./A/year <ul style="list-style-type: none"> <li><b>DO NOT</b> exceed 1.91 lbs. a.i./A/year of S-metolachlor-containing products.</li> </ul> </li> <li><b>DO NOT</b> graze or feed peanut forage or fodder to livestock for 30 days following application.</li> <li><b>Pre-harvest Interval (PHI):</b> 90 days</li> </ul>		

**Tank-Mix Combinations for Peanut**

Application Timing	Tank-Mix Brands	Use Directions
<b>Pre-plant Incorporated</b>	Prowl® Pursuit® Sonalan® Imazethapyr 2SL brands	Apply the tank mixture within 14 days before planting.  Apply to the soil and incorporate into the top 2 inches of soil before planting using an implement capable of providing uniform incorporation.  Use pre-plant incorporated application if furrow irrigation is used or when a period of dry weather after application is expected.  If peanuts will be planted on beds, apply, and incorporate after bed formation.
<b>Pre-emergence</b>	Pursuit	Apply after planting but before peanut cracking.
<b>Ground Cracking</b>	Basagran® Butyrac® 200 Gramoxone Brands Pursuit Imazethapyr 2SL brands	Apply tank mixtures at ground cracking.  Apply <b>Gramoxone brands</b> as a tank mixture with this product at ground cracking to control or suppress small (1 - 6 inch) emerged annual grass and broadleaf weeds and provide residual control of weeds listed the <b>WEEDS CONTROLLED OR PARTIALLY CONTROLLED</b> section. Apply in a minimum spray volume of 20 gals./A with ground equipment.
<b>Ground Cracking to Post-emergence</b>	Basagran Pursuit Storm® Imazethapyr 2SL brands	Apply <b>Basagran</b> as a tank mixture with this product from ground cracking to post-emergence.  Apply <b>Storm</b> as a tank mixture with this product post-emergence (after peanut emergence) through 2 expanded tetrafoliate leaves.  Apply <b>Pursuit</b> as a tank mixture with this product at ground cracking and after peanut emergence.

**TANK-MIX USE RESTRICTIONS**

- All use restrictions cited in the **PEANUT- Pre-Plant Incorporated, Post-Plant Incorporated, Pre-Emergence, or Lay-By Applications** section for this product alone apply to tank-mixes with this product.



- 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.
- DO NOT** apply more than the equivalent of 2.67 lbs. a.i./A/year of this product.

### POTATO

#### Incorporated, Pre-Emergence, Post-Emergence, and Lay-By Applications

Crops (including cultivars, varieties, and/or hybrids)		
Potato		
Application Timing	Rate (Pts./A)	Use Directions
<b>Incorporated</b>	0.99 – 1.98 pts./A Within the 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.	<p><b>Pre-plant Incorporated</b> Apply and incorporate into the top 3 inches before planting, using an implement capable of providing uniform incorporation. During planting and cultural practices later in the growing season, avoid bringing untreated soil to the surface or weed control will be reduced where untreated soil has been exposed.</p> <p><b>Post-plant Incorporated</b> Applications may be made any time after planting to drag-off, but before potato emergence. Use an implement that evenly distributes this product in the top 2 inches of soil. Do not damage potato seed pieces or sprouts with incorporation equipment.</p>
<b>Pre-emergence</b>	0.99 – 1.98 pts./A Within the 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. For extended residual or control of heavy weed infestations, up to 2.58 pts./A is allowed.	Apply either after planting as a pre-emergence, delayed pre-emergence, after drag-off or hilling treatment.  Effectiveness will be reduced if later cultural practices expose untreated soil.
<b>Post-emergence After-Hilling/ Lay-By</b>	1.66 pts./A	Apply to potatoes after hilling or at lay-by for control of labeled weeds for remainder of the growing season.
<b>For Weed Control:</b>		
<ul style="list-style-type: none"> <li>Refer to the <b>WEEDS CONTROLLED OR PARTIALLY CONTROLLED</b> section for list of weeds.</li> </ul>		
<b>Tank Mix Options:</b>		
<ul style="list-style-type: none"> <li>Refer to the <b>Tank-Mix Combinations for Potato</b> section for tank mix application options.</li> </ul>		
<b>Resistance Management:</b>		
<ul style="list-style-type: none"> <li>Refer to the <b>WEED RESISTANCE MANAGEMENT</b> section.</li> </ul>		
<b>Precautions:</b>		
<ul style="list-style-type: none"> <li>If cool, wet soil conditions occur after application, this product may delay maturity and/or reduce yield of Superior and other early-maturing potato varieties.</li> <li>This product will not control emerged weeds. Control emerged weeds with an appropriate registered foliar herbicide or by mechanical means.</li> </ul>		
<b>USE RESTRICTIONS</b>		
<ul style="list-style-type: none"> <li>Refer to the <b>RESTRICTIONS AND PRECAUTIONS</b> section for additional product use restrictions.</li> <li><b>Maximum Single Application Rate:</b> 2.58 pts./A</li> <li><b>Minimum Application Interval:</b> Not Applicable</li> <li><b>Maximum Annual Rate:</b> 3.57 pts./A/year <ul style="list-style-type: none"> <li><b>DO NOT</b> exceed 3.43 lbs. a.i./A/year of S-metolachlor-containing products.</li> </ul> </li> <li><b>DO NOT</b> use on muck or peat soils.</li> <li><b>DO NOT</b> apply both as a pre-emergence and an incorporated treatment.</li> <li><b>Pre-harvest Interval (PHI):</b> <ul style="list-style-type: none"> <li>40 days after a lay-by application</li> <li>60 days after at-planting to drag-off application</li> </ul> </li> <li><b>DO NOT</b> apply to sweet potatoes or yams.</li> </ul>		

#### Tank-Mix Combinations for Potato

Application	Tank-Mix Brands	Use Directions
<b>Pre-emergence (East of the Rocky Mountains)</b>	Linex Lorox	Apply this tank mix as a pre-emergence broadcast application. Apply to the soil surface after planting and before emergence of the

		crop or after final drag-off.
<b>Pre-emergence Incorporated</b>	Prowl®	For <b>pre-emergence incorporated</b> use, apply this tank mixture after planting but before potato emerges. Keep incorporation depth above the seed pieces and elongated sprouts, or the crop will be damaged.
<b>Pre-emergence</b>		
<b>Early Post-emergence</b>		For <b>pre-emergence</b> use, apply this tank mixture after planting but before potato emerges.
<b>Pre-emergence Post-emergence</b>	Tricor	Apply this tank mixture pre-emergence or post-emergence to potatoes.  For <b>post-emergence</b> use, apply this tank mixture as a directed or semi-directed spray to avoid chlorosis, minor necrosis, or leaf distortion.
<b>Precaution:</b>		
<ul style="list-style-type: none"> <li>These use directions for use do not apply to sweet potatoes or yams.</li> </ul>		
<b>TANK-MIX USE RESTRICTIONS</b>		
<ul style="list-style-type: none"> <li>All use restrictions cited in the <b>POTATO - Incorporated, Pre-Emergence, Post-Emergence, and Lay-By Applications</b> section for this product alone apply to tank-mixes with this product.</li> <li>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.</li> </ul>		

**PUMPKIN**

<b>Crops (including cultivars, varieties, and/or hybrids)</b>		
Pumpkin		
<b>Application Timing</b>	<b>Rate (Pts./A)</b>	<b>Use Directions</b>
<b>Pre-emergence (Inter-Row or Inter-Hill)</b>	0.99 - 1.32 pts./A  Use the lower rate on soils light in texture (loamy sand or lighter) and low in soil organic matter (less than 3%).	Apply as an inter-row or inter-hill application. Leave 1 foot of untreated area over the row, or 6 inches to each side of the planted hill and/or any emerged pumpkin foliage (inter-row or inter-hill means not directly over the planted seed or young pumpkin plants).
<b>For Weed Control:</b>		
<ul style="list-style-type: none"> <li>Refer to the <b>WEEDS CONTROLLED OR PARTIALLY CONTROLLED</b> section for list of weeds.</li> </ul>		
<b>Resistance Management:</b>		
<ul style="list-style-type: none"> <li>Refer to the <b>WEED RESISTANCE MANAGEMENT</b> section.</li> </ul>		
<b>Precautions:</b>		
<ul style="list-style-type: none"> <li>This product applied as a broadcast spray over the planted row or hill, or applications made directly to crop foliage will increase the risk of injury to the pumpkin crop such as stand loss, delayed maturity, and loss of yield.</li> <li>This product will not control emerged weeds. Control emerged weeds with an appropriate registered foliar herbicide or by mechanical means.</li> </ul>		
<b>USE RESTRICTIONS</b>		
<ul style="list-style-type: none"> <li>Refer to the <b>RESTRICTIONS AND PRECAUTIONS</b> section for additional product use restrictions.</li> <li><b>Maximum Single Application Rate:</b> 1.32 pts./A</li> <li><b>Minimum Application Interval:</b> Not Applicable</li> <li><b>Maximum Annual Rate:</b> 1.32 pts./A/year <ul style="list-style-type: none"> <li><b>DO NOT</b> exceed 1.27 lbs. a.i./A/year of S-metolachlor-containing products.</li> </ul> </li> <li><b>Pre-harvest Interval (PHI):</b> 30 days</li> </ul>		

**RHUBARB**

<b>Crops (including cultivars, varieties, and/or hybrids)</b>		
Rhubarb		
<b>Application Timing</b>	<b>Rate (Pts./A)</b>	<b>Use Directions</b>
<b>Pre-emergence</b>	0.67 - 1.32 pts./A  Use lower rates on soils relatively coarse-textured and higher rates on fine-textured soils.	Apply as a broadcast spray to the soil surface. Apply in early spring, prior to crop emergence.
<b>For Weed Control:</b>		
<ul style="list-style-type: none"> <li>Refer to the <b>WEEDS CONTROLLED OR PARTIALLY CONTROLLED</b> section for list of weeds.</li> </ul>		
<b>Resistance Management:</b>		
<ul style="list-style-type: none"> <li>Refer to the <b>WEED RESISTANCE MANAGEMENT</b> section.</li> </ul>		
<b>Precaution:</b>		

- This product will not control emerged weeds. Control emerged weeds with an appropriate registered foliar herbicide or by mechanical means.

**USE RESTRICTIONS**

- Refer to the **RESTRICTIONS AND PRECAUTIONS** section for additional product use restrictions.
- Maximum Single Application Rate:** 1.32 pts./A
- Minimum Application Interval:** Not Applicable
- Maximum Annual Rate:** 1.32 pts./A/year
  - DO NOT** exceed 1.27 lbs. a.i./A/year of S-metolachlor-containing products.
- DO NOT** make more than 1 application of this product per crop.
- Pre-harvest Interval (PHI):** 62 days

**SAFFLOWERS**

<b>Crops (including cultivars, varieties, and/or hybrids)</b>		
Safflowers		
<b>Application Timing</b>	<b>Rate (Pts./A)</b>	<b>Use Directions</b>
<b>Pre-plant Incorporated</b>	<p>For all applications use the rate for the specific soil texture and organic matter (OM) as follows:</p> <p>Coarse Soil: 0.99 - 1.32 pts./A; &lt;3% OM 1.32 pts./A; ≥ 3% OM</p> <p>Medium Soil: 1.32 - 1.66 pts./A</p> <p>Fine Soil: 1.32 - 1.66 pts./A; &lt;3% OM 1.66 - 1.98 pts./A; ≥ 3% OM</p>	<p>Apply within 14 days of planting.</p> <p>Apply to the soil and incorporate into the top 2 inches of soil using an implement capable of providing uniform incorporation.</p> <p>Use a pre-plant incorporated application if furrow irrigation is used or when a period of dry weather after application is expected.</p> <p>If crop will be planted on beds, apply, and incorporate after bed formation, unless specified otherwise.</p> <p><b>For California Only:</b> Broadcast alone or with tank mix partners to the soil and thoroughly incorporate with a disk or similar implement set to till 4 - 6 inches deep. For more thorough incorporation, till the soil in 2 different directions (cross-till). Safflowers may be planted on flat surface or on beds.</p> <p>Use caution when forming the beds to ensure that only soil from the treated zone is used (i.e., do not bring untreated soil to soil surface).</p> <p>If application is made to preformed beds, incorporate with a tillage implement set to till 2 - 4 inches deep. Use care during tilling to keep the treated, tilled soil on the beds.</p>
<b>Pre-emergence</b>	<p>For all applications use the rate for the specific soil texture and organic matter (OM) as follows:</p> <p>Coarse Soil: 0.99 - 1.32 pts./A; &lt;3% OM 1.32 pts./A; ≥ 3% OM</p> <p>Medium Soil: 1.32 - 1.66 pts./A</p> <p>Fine Soil: 1.32 - 1.66 pts./A; &lt;3% OM 1.66 - 1.98 pts./A; ≥ 3% OM</p>	<p>Apply during planting (behind the planter) or after planting.</p> <p><b>For California Only:</b> Apply after planting. Water with sprinkler or flood irrigation within 7 - 10 days.</p>
<b>For Weed Control:</b>		
<ul style="list-style-type: none"> <li>Refer to the <b>WEEDS CONTROLLED OR PARTIALLY CONTROLLED</b> section for list of weeds.</li> </ul>		
<b>Resistance Management:</b>		
<ul style="list-style-type: none"> <li>Refer to the <b>WEED RESISTANCE MANAGEMENT</b> section.</li> </ul>		
<b>Precaution:</b>		
<ul style="list-style-type: none"> <li>This product will not control emerged weeds. Control emerged weeds with an appropriate registered foliar herbicide or by mechanical means.</li> </ul>		
<b>USE RESTRICTIONS</b>		
<ul style="list-style-type: none"> <li>Refer to the <b>RESTRICTIONS AND PRECAUTIONS</b> section for additional product use restrictions.</li> <li><b>Maximum Single Application Rate:</b> 1.98 pts./A</li> <li><b>Minimum Application Interval:</b> Not Applicable</li> </ul>		

- **Maximum Annual Rate:** 1.98 pts./A/year
  - **DO NOT** exceed 1.91 lbs. a.i./A/year of S-metolachlor-containing products.
- **Pre-harvest Interval (PHI):** Not Applicable

**SORGHUM (CONCEP III TREATED ONLY)**

Grain or Forage Sorghum, Fall, Pre-Plant Surface, Pre-Plant Incorporated, Pre-Emergence, or Post-Emergence Applications

<b>Crops (including cultivars, varieties, and/or hybrids of these)</b>		
Sorghum grain (seed-treated with approved Concep® III treated only)		Forage sorghum (seed-treated with Concep III treated only)
<b>Application Timing</b>	<b>Rate (Pts./A)</b>	<b>Use Directions</b>
<b>Fall Application for Residual Control of Glyphosate Resistant Italian Ryegrass</b>	1.32 - 1.66 pts./A  Use the lower rate for coarse-textured soils and the higher rate for fine-textured soils.	Apply from September 1 <sup>st</sup> to December 1 <sup>st</sup> after harvest of the previous crop and prior to Italian ryegrass emergence.  If tillage follows application, avoid incorporating to a depth greater than 2 - 3 inches.  After emergence of glyphosate-resistant Italian ryegrass, a paraquat brand herbicide can be tank- mixed with this product to control emerged ryegrass.
<b>Pre-plant Surface Application in CO, IA, IL, KS, MO, NE and SD</b>	Apply the rate for the specific soil texture as follows:  Coarse Soil: 1.32 pts./A  Medium Soil: 1.49 pts./A  Fine Soil: 1.66 pts./A	Apply up to 45 days before planting.  On coarse soils apply no more than 2 weeks prior to planting.  Under dry conditions, irrigate after application to activate this product and improve weed control.
<b>Pre-plant Incorporated</b>  <b>Pre-emergence</b>	Apply the rate for the specific soil texture as follows:  Coarse Soil: 0.99 - 1.32 pts./A  Medium Soil: 1.32 - 1.49 pts./A  Fine Soil: 1.32 -1.66 pts./A	<b>Pre-plant Incorporated Application:</b> Apply within 14 days of planting.  Apply to the soil and incorporate into the top 2 inches of soil using an implement capable of providing uniform incorporation.  Use a pre-plant incorporated application if furrow irrigation is used or when a period of dry weather after application is expected.  <b>Pre-emergence Application:</b> Apply after planting but before crop emerges.
<b>Post-emergence</b>	Apply the rate for the specific soil texture as follows:  Coarse Soil: 0.99 - 1.32 pts./A  Medium Soil: 1.32 - 1.49 pts./A  Fine Soil: 1.32 -1.66 pts./A	Apply as a broadcast spray.  When applied alone, this product will be safe to emerged sorghum.  The risk of sorghum injury increases when adjuvants (e.g., non-ionic, crop oil), nitrogen sources (e.g., AMS, UAN) or fertilizers are applied with this product.
<b>For Weed Control:</b>		
<ul style="list-style-type: none"> <li>• Refer to the <b>WEEDS CONTROLLED OR PARTIALLY CONTROLLED</b> section for list of weeds.</li> </ul>		
<b>Tank Mix Application Options:</b>		
<ul style="list-style-type: none"> <li>• Refer to the <b>Tank-Mix Combinations for Sorghum (Concep III Treated Only)</b> section for tank-mix options.</li> </ul>		
<b>Resistance Management:</b>		
<ul style="list-style-type: none"> <li>• Refer to the <b>WEED RESISTANCE MANAGEMENT</b> section.</li> </ul>		
<b>Precautions:</b>		
<ul style="list-style-type: none"> <li>• If sorghum seed is not properly treated with Concep III seed treatment, applications prior to sorghum emergence will result in severe injury or crop death.</li> <li>• Under high soil moisture conditions prior to sorghum emergence, injury may occur following pre-plant and pre-emergence application. The crop will normally outgrow this effect.</li> <li>• Avoid use of this product on sorghum grown under dry mulch tillage, or injury may occur.</li> <li>• This product will not control emerged weeds. Control emerged weeds with an appropriate registered foliar herbicide or by mechanical means.</li> </ul>		
<b>USE RESTRICTIONS</b>		
<ul style="list-style-type: none"> <li>• Refer to the <b>RESTRICTIONS AND PRECAUTIONS</b> section for additional product use restrictions.</li> <li>• <b>Maximum Single Application Rate:</b> 1.66 pts./A</li> <li>• <b>Minimum Application Interval:</b> Not Applicable</li> </ul>		

- **Maximum Annual Rate:** 1.66 pts./A/year
- **DO NOT** exceed 1.59 lbs. a.i./A/year of S-metolachlor-containing products.
- The combined total amount of this product from all applications in the fall plus spring must not exceed the maximum allowed annual rate.
- More than 1 application per year is allowed but the total must not exceed 1.66 pts./A/year.
- **DO NOT** apply to frozen ground.
- **Pre-harvest Interval (PHI):** 75 days

#### Tank-Mix Combinations for Sorghum (Concep III Treated Only)

Application	Tank-Mix Brands	Use Directions
<b>Burndown Weed Control</b>	Gramoxone brands Glyphosate Roundup brands	For use where sorghum (seed treated with Concep III) is planted directly into a cover crop, stale seedbed, established sod, or previous crop residues. Apply before, during or after planting, but before sorghum emerges. The herbicides identified as tank-mix partners may be tank mixed with this product or this product + AAtrex.
<b>Pre-plant Surface</b>  <b>Pre-plant Incorporated</b>  <b>Pre-emergence</b>	AAtrex Atrazine 4L brands	Tank mixtures with AAtrex may be applied in water or fluid fertilizer.

#### Precautions:

- If sorghum seed is not properly treated with Concep III seed treatment, applications prior to sorghum emergence will result in crop death.
- Applications of this product + AAtrex on highly alkaline soils or on eroded areas where calcareous subsoils are exposed may cause sorghum injury.
- Burndown, pre-plant, or pre-emergence applications of this product to sorghum not treated with a Concep III seed treatment will result in severe injury or kill the crop.
- Under high soil moisture conditions prior to sorghum emergence, injury may occur following the use of pre-plant and pre-emergence applications of this product + AAtrex. The crop will normally outgrow this effect.
- Avoid use of this product + AAtrex on sorghum grown under dry mulch tillage, or injury may occur.

#### TANK-MIX USE RESTRICTIONS

- All use restrictions cited in the **Grain or Forage Sorghum, Fall, Pre-Plant Surface, Pre-Plant Incorporated, Pre-Emergence, or Post-Emergence Applications** section for this product alone apply to tank-mixes with this product.
- 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.
- **IMPORTANT: FOR TANK MIXTURES WITH AATREX (OR OTHER BRANDS OF ATRAZINE):**
  - If applying this product in tank mixture with AAtrex, all the restrictions and rate limitations on the AAtrex label must be followed.
  - **DO NOT** apply this product + AAtrex tank mixture on coarse soils or medium soils with less than 1.5% organic matter.
  - **DO NOT** apply this product + AAtrex tank mixture as a pre-plant incorporated or pre-emergence treatment in NM, OK, or TX, except in northeast OK and the TX Gulf Coast and Blacklands areas.
  - **DO NOT** apply this product + AAtrex tank mixture as a pre-plant incorporated treatment in AZ or the Imperial Valley of CA.

#### Sweet Sorghum, Pre-Plant Surface, Pre-Plant Incorporated, Pre-Emergence, or Post-Emergence

Crops (including cultivars, varieties, and/or hybrids of these)		
Sweet sorghum (seed treated with Concep III only)		
Application Timing	Rate (Pts./A)	Use Directions
<b>Pre-plant Surface Application</b>	Apply the rate for the specific soil texture as follows:  Coarse Soil: 1.32 pts./A  Medium Soil: 1.49 pts./A  Fine Soil: 1.66pts./A	On medium and fine soils, apply up to 30 days before planting.  On coarse soils apply no more than 14 days prior to planting.  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.  Under dry conditions, irrigate after application to activate this product and improve weed control.
<b>Pre-plant Incorporated</b>	Apply this product at the rates below for the soil texture:	<b>Pre-plant Incorporated Application:</b> Make applications within 14 days of planting.
<b>Pre-emergence</b>	Coarse Soil: 0.99 - 1.32 pts./A	Apply to the soil and incorporate into the top 2 inches of soil using

	<p>Medium Soil: 1.32 - 1.49 pts./A</p> <p>Fine Soil: 1.32 - 1.66 pts./A</p>	<p>an implement capable of providing uniform incorporation.</p> <p>Use a pre-plant incorporated application if furrow irrigation is used or when a period of dry weather after application is expected.</p> <p>If crop will be planted on beds, apply and incorporate after bed formation, unless specified otherwise.</p> <p><b>Pre-emergence Application:</b> Apply after planting but before crop emerges.</p> <p>Under dry conditions, irrigate after application to activate this product and improve weed control.</p>
<b>Post-emergence</b>	<p>Apply this product at the rates below for the soil texture:</p> <p>Coarse Soil: 0.99 - 1.32 pts./A</p> <p>Medium Soil: 1.32 pts./A</p> <p>Fine Soil: 1.32 pts./A</p>	<p>Apply up to a crop height of 5 inches.</p> <p>When applied alone, this product will be safe to emerged sweet sorghum. Use of adjuvants is prohibited on sweet sorghum.</p>

**For Weed Control:**

- Refer to the **WEEDS CONTROLLED OR PARTIALLY CONTROLLED** section for list of weeds.

**Resistance Management:**

- Refer to the **WEED RESISTANCE MANAGEMENT** section.

**Precautions:**

- If sweet sorghum seed is not properly treated with Concep III seed treatment, applications with this product prior to sorghum emergence will result in crop death.
- Under high soil moisture conditions prior to sweet sorghum emergence, injury may occur following soil applications. The crop will normally outgrow this effect.
- Avoid use of this product on sweet sorghum grown under dry mulch tillage, or injury may occur.
- Weed control will be reduced under dry conditions, irrigate after application to activate this product.
- This product will not control emerged weeds. Control emerged weeds with an appropriate registered foliar herbicide or by mechanical means.

**USE RESTRICTIONS**

- Refer to the **RESTRICTIONS AND PRECAUTIONS** section for additional product use restrictions.
- **Maximum Single Application Rate:** 1.66 pts./A
- **Minimum Application Interval:** Not Applicable
- **Maximum Annual Rate:** 1.66 pts./A/year
- **DO NOT** exceed 1.59 lbs. a.i./A/year of S-metolachlor-containing products.
- **DO NOT** make more than 1 application per year.
- **Pre-harvest Interval (PHI):** 90 days

**SOYBEANS [(NOT FOR POST-EMERGENCE USE IN CALIFORNIA.)]**

**Fall, Pre-Plant Surface, Pre-Plant Incorporated, Pre-Emergence, or Post-Emergence Applications**

<b>Crops (including cultivars, varieties, and/or hybrids of these)</b>		
Soybeans		
<b>Application Timing</b>	<b>Rate (Pts./A)</b>	<b>Use Directions</b>
<p><b>Fall Application for Spring Weed Control</b></p> <p><b>For use in the following states:</b> Iowa Illinois Minnesota Nebraska North Dakota South Dakota Wisconsin</p>	<p>For minimum-till or no-tillage systems on soils with <math>\geq 2.5\%</math> organic matter, apply rate based on soil texture:</p> <p>Fine Soil: 1.98 pts./A</p> <p>Medium Soil: 1.66 – 1.98 pts./A</p> <p>Coarse Soil: 1.32 pts./A</p>	<p>Apply after harvest when the sustained soil temperature at a 4-inch depth is less than 55°F and falling.</p> <p>Apply to ground that will be planted to soybeans the next spring and time application according to the following geographic schedule:</p> <p>Apply after September 30<sup>th</sup> in ND, SD, MN, WI and north of Route 30 in IA.</p> <p>Apply after October 15<sup>th</sup> North of Route 91 in NE and south of Route 30 in IA.</p> <p>Apply after October 31<sup>st</sup> North of Route 136 in IL.</p> <p>When fall and/or a spring tillage follows application, avoid incorporating to a depth greater than 2 - 3 inches.</p>

<b>Fall Application for Residual Control of Glyphosate Resistant Italian Ryegrass</b>	1.32 - 1.66 pts./A  Use the lower rate for coarse-textured soils and the higher rate for fine-textured soils.	Minimize furrow and ridge formation in the tillage operations. Apply after harvest of the previous crop and prior to Italian ryegrass emergence.  If tillage follows application, avoid incorporating to a depth greater than 2 - 3 inches.  After emergence of glyphosate resistant Italian ryegrass, a Gramoxone brand herbicide can be tank-mixed with this product to control emerged ryegrass.
<b>Pre-plant Surface Application</b>	Apply this product at rates below for the soil texture:  Coarse Soil: 1.32 pts./A  Medium Soil: 1.66 pts./A  Fine Soil: 1.98 pts./A  For extended residual control or control of heavy weed infestations, up to 2.58 pts./A is allowed.	Apply up to 14 days prior to planting on coarse soils.  Apply up to 30 days before planting on medium or fine soils.
<b>Pre-plant Incorporated Pre-emergence</b>	For all applications use the rate for the specific soil texture and organic matter (OM) as follows:  Coarse Soil: 0.99 - 1.32 pts./A; <3% OM 1.32 pts./A; ≥ 3% OM  Medium Soil: 1.32 - 1.66 pts./A  Fine Soil: 1.32 - 1.66 pts./A; <3% OM 1.66 - 1.98 pts./A; ≥ 3% OM  For extended residual or control of heavy weed infestations, up to 2.58 pts./A is allowed.	<b>Pre-plant Incorporation Application:</b> Apply within 14 days of planting.  Apply to the soil and incorporate into the top 2 inches of soil using an implement capable of providing uniform 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 after bed formation, unless specified otherwise.  <b>Pre-emergence Application:</b> Apply during planting or after planting but before crop emerges.
<b>Post-emergence</b>	0.99 - 1.98 pts./A  Use the lower rate for coarse-textured soils and the higher rate for fine-textured soils.	Apply as a broadcast treatment after soybean emergence up to 75 days before harvest.  Apply to extend the duration of weed control in soybean.

**For Weed Control:**

- Refer to the **WEEDS CONTROLLED OR PARTIALLY CONTROLLED** section for list of weeds.

**Tank Mix Application Options:**

- Refer to the **Tank-Mix Combinations for Soybeans** section for tank-mix options.

**Resistance Management:**

- Refer to the **WEED RESISTANCE MANAGEMENT** section.

**Precautions:**

- For pre-plant surface application, to the extent possible, avoid moving treated soil out of the row or moving untreated soil to the surface during planting or weed control will be diminished.
- This product will not control emerged weeds. Control emerged weeds with an appropriate registered foliar herbicide or by mechanical means.

**USE RESTRICTIONS**

- Refer to the **RESTRICTIONS AND PRECAUTIONS** section for additional product use restrictions.
- Maximum Single Application Rate:**
  - DO NOT** apply more than 2.58 pts./A in a single pre-emergence application.
  - DO NOT** apply more than 1.98 pts./A in a single post-emergence application.

- **Minimum Application Interval:** Not applicable
- **Maximum Annual Rate:** 3.87 pts./A/year
- **DO NOT** exceed 3.71 lbs. a.i./A/year of S-metolachlor-containing products.
- The combined total amount of this product from all applications in the fall plus spring must not exceed the maximum allowed annual rate.
- More than 1 post-emergence application may be applied, but the total applied to the crop must not exceed 3.87 pts./A.
- **DO NOT** apply this product to frozen ground.
- **DO NOT** graze or feed treated forage, hay or straw from soybeans to livestock for 30 days following a pre-plant surface, pre-plant incorporated or pre-emergence application.
- **DO NOT** graze or feed treated forage or hay from soybeans to livestock following a post-emergence application.
- **Pre-harvest Interval (PHI):** 75 days

#### Tank-Mix Combinations for Soybeans

Application	Tank-Mix Brands	Use Directions
Pre-plant Surface Pre-emergence	Gramoxone brands Glyphosate Roundup brands	Use these tank mixtures for burndown plus residual control in reduced or no-till systems.
	Authority <sup>®</sup> MTZ TriCor <sup>®</sup> Canopy <sup>®</sup> Authority <sup>®</sup> First Authority <sup>®</sup> Maxx Classic <sup>®</sup> FirstRate <sup>®</sup> Sharpen <sup>®</sup> Sonic <sup>®</sup> Verdict <sup>®</sup> Sulfen Met brands Sulfen Cloran brands Sulfen Chlorim brands Sulfen IMAZ brands Chlorin WDG brands Cloran DF brands	Use these tank mixtures for additional residual control.  Do not use this Authority MTZ of Tricor tank mixes on soil with less than 0.5% organic matter or on alkaline soils with a pH over 7.4.  If heavy rain occurs soon after application, crop injury may result.  Use of Authority MTZ of Tricor is not recommended for soybean varieties known to be metribuzin sensitive.
Post-emergence	Classic FirstRate Flexstar <sup>®</sup> Fusilade <sup>®</sup> DX Fusion <sup>®</sup> Prefix <sup>®</sup> Python <sup>®</sup> Reflex <sup>®</sup> Chlorin WDG brands Cloran DF brands Fomesafen 1.88 brands	Use these tank mixtures for control of emerged weeds plus residual control of grasses and small-seeded broadleaf weeds.  Follow the tank-mix partner label for adjuvant use instructions.
Post-emergence to Glyphosate-Resistant Soybeans	Flexstar <sup>®</sup> GT Glyphosate Roundup brands	Use these tank mixtures only on glyphosate-resistant soybeans.  Use of this product in these tank mixtures will provide residual control of weed listed in the <b>WEEDS CONTROLLED OR PARTIALLY CONTROLLED</b> section.  Follow the tank-mix partner label for adjuvant use instructions.  Apply only to soybeans that are resistant to glyphosate.
Post-emergence to Glufosinate-Resistant Soybeans	Liberty <sup>®</sup> Glufosinate 280SL brands	Use this tank mixture only on soybeans that are resistant to glufosinate (e.g., LibertyLink).  Use of this product in this tank mixture will provide residual control of weeds listed in the <b>WEEDS CONTROLLED OR PARTIALLY CONTROLLED</b> section.  Follow the Liberty product label for adjuvant use instructions.  Apply only to soybeans that are resistant to glufosinate.
<b>Precaution:</b>		
<ul style="list-style-type: none"> <li>• The use of COC or UAN with this product may result in temporary crop injury with post-emergence applications.</li> </ul>		



**TANK-MIX USE RESTRICTIONS**

- All use restrictions cited in the **SOYBEANS - Fall, Pre-Plant Surface, Pre-Plant Incorporated, Pre-Emergence, or Post-Emergence Applications** section for this product alone apply to tank-mixes with this product.
- 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.

**SUGAR BEETS****Post-Emergence Application**

<b>Crops (including cultivars, varieties, and/or hybrids of these)</b>		
Sugar Beets		
<b>Application Timing</b>	<b>Rate (Pts./A)</b>	<b>Use Directions</b>
<b>Post-emergence</b>	Apply this product at rates below for the soil texture:  Coarse Soil: 0.99 pt./A  Medium Soil: 1.32 pts./A  Fine Soil: 1.66 pts./A	Apply after sugar beets have reached first true-leaf stage.  More than 1 post-emergence application may be made.
<b>For Weed Control:</b>		
<ul style="list-style-type: none"> <li>• Refer to the <b>WEEDS CONTROLLED OR PARTIALLY CONTROLLED</b> section for list of weeds.</li> </ul>		
<b>Tank Mix Application Options:</b>		
<ul style="list-style-type: none"> <li>• Refer to the <b>Tank-Mix Combinations for Sugar Beets</b> section for tank-mix options.</li> </ul>		
<b>Resistance Management:</b>		
<ul style="list-style-type: none"> <li>• Refer to the <b>WEED RESISTANCE MANAGEMENT</b> section.</li> </ul>		
<b>Precaution:</b>		
<ul style="list-style-type: none"> <li>• This product will not control emerged weeds. Control emerged weeds with an appropriate registered foliar herbicide or by mechanical means.</li> </ul>		
<b>USE RESTRICTIONS</b>		
<ul style="list-style-type: none"> <li>• Refer to the <b>RESTRICTIONS AND PRECAUTIONS</b> section for additional product use restrictions.</li> <li>• <b>Maximum Single Application Rate:</b> 1.66 pts./A <ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 1.98 pts./A/year post-emergence in a single application.</li> </ul> </li> <li>• <b>Minimum Application Interval:</b> Not Applicable</li> <li>• <b>Maximum Annual Rate:</b> 2.65 pts./A/year <ul style="list-style-type: none"> <li>• <b>DO NOT</b> exceed 2.54 lbs. a.i./A/year of S-metolachlor-containing products.</li> </ul> </li> <li>• More than 1 post-emergence application may be applied, but the total must not exceed 2.58 pts./A.</li> <li>• <b>Pre-harvest Interval (PHI):</b> 60 days</li> </ul>		

**Tank-Mix Combinations for Sugar Beets**

<b>Application</b>	<b>Tank-Mix Brands</b>	<b>Use Directions</b>
<b>Post-emergence</b>	Assure® II Poast® Select® Stinger® Upbeet® Clethodim 2EC brands	Tank mixtures of these products will increase the risk of crop injury over that of either product applied alone.
<b>Precautions:</b>		
<ul style="list-style-type: none"> <li>• The addition of a spray adjuvant such as crop oil concentrates (COC's) or methylated seed oils (MSO's) can further increase the risk of crop injury.</li> <li>• Injury risk can be reduced by using the lowest effective rate of the tank mix partner(s) and/or adjuvant and by avoiding applications under adverse growing conditions or high soil or air humidity.</li> </ul>		
<b>TANK-MIX USE RESTRICTIONS</b>		
<ul style="list-style-type: none"> <li>• All use restrictions cited in the <b>SUGAR BEETS - Post-Emergence Application</b> section for this product alone apply to tank-mixes with Clethodim 2EC brands.</li> <li>• 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.</li> </ul>		

**SUNFLOWERS**

<b>Crops (including cultivars, varieties, and/or hybrids of these)</b>
Sunflowers

Application Timing	Rate (Pts./A)	Use Directions
<b>Pre-plant Incorporated</b> <b>Pre-emergence</b>	For all applications use the rate for the specific soil texture and organic matter (OM) as follows:  Coarse Soil: 0.99 - 1.32 pts./A; <3% OM 1.32 pts./A; ≥ 3% OM  Medium Soil: 1.32 - 1.66 pts./A  Fine Soil: 1.32 - 1.66 pts./A; <3% OM 1.66 – 1.98 pts./A; ≥ 3% OM  Within the rate range, use the higher rate of this product if heavy weed infestations are expected.	<b>Pre-plant Incorporation Application:</b> Apply within 14 days of planting.  Apply to the soil and incorporate into the top 2 inches of soil using an implement capable of providing uniform 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 after bed formation, unless specified otherwise.  <b>Pre-emergence Application:</b> Apply after planting but before crop emerges.
<b>For Weed Control:</b>		
<ul style="list-style-type: none"> <li>Refer to the <b>WEEDS CONTROLLED OR PARTIALLY CONTROLLED</b> section for list of weeds.</li> </ul>		
<b>Resistance Management:</b>		
<ul style="list-style-type: none"> <li>Refer to the <b>WEED RESISTANCE MANAGEMENT</b> section.</li> </ul>		
<b>Precaution:</b>		
<ul style="list-style-type: none"> <li>This product will not control emerged weeds. Control emerged weeds with an appropriate registered foliar herbicide or by mechanical means.</li> </ul>		
<b>USE RESTRICTIONS</b>		
<ul style="list-style-type: none"> <li>Refer to the <b>RESTRICTIONS AND PRECAUTIONS</b> section for additional product use restrictions.</li> <li><b>Maximum Single Application Rate:</b> 1.98 pts./A</li> <li><b>Minimum Application Interval:</b> Not Applicable</li> <li><b>Maximum Annual Rate:</b> 1.98 pts./A/year <ul style="list-style-type: none"> <li><b>DO NOT</b> exceed 1.91 lbs. a.i./A/year of S-metolachlor-containing products.</li> </ul> </li> <li><b>DO NOT</b> exceed the maximum label rates given above for the soil type.</li> <li><b>DO NOT</b> allow livestock to graze or feed in treated area.</li> <li><b>Pre-harvest Interval (PHI):</b> Not Applicable</li> </ul>		

**TOMATO**

<b>Crops (including cultivars, varieties, and/or hybrids of these)</b>		
Tomato, seeded		Tomato, transplanted
Application Timing	Rate (Pts./A)	Use Directions
<b>For Transplanted Tomatoes</b>  <b>Pre-plant Incorporated</b>  <b>Pre-plant Post-Directed</b>	For all applications, use the rate for the specific soil texture and organic matter (OM) as follows:  Coarse Soil: 0.99 - 1.32 pts./A; <3% OM 1.32 pts./A; ≥ 3% OM  Medium Soil: 1.32 - 1.66 pts./A  Fine Soil: 1.32 - 1.66 pts./A; <3% OM 1.66 – 1.98 pts./A; ≥ 3% OM	<b>Pre-plant Incorporation Application:</b> Apply to the soil and incorporate into the soil using an implement capable of providing uniform incorporation.  Use a pre-plant incorporated application if furrow irrigation is used or when a period of dry weather after application is expected.  <b>Pre-plant Application:</b> Apply before transplanting and keep soil disturbance to a minimum during the transplanting operation.  In bedded transplanted tomatoes, apply this product pre-plant non-incorporated to the top of the pressed bed, as the last step prior to laying plastic.  This product may also be used to treat row- middles in bedded tomatoes, as long as the total amount of this product does not exceed the maximum allowed per crop.  <b>Post-Directed Application:</b> Apply after the first settling rain or irrigation.  Apply in a minimum of 20 gallons of water per acre and minimize

<p><b>For Seeded Tomatoes</b></p> <p><b>Post-Directed</b></p>	<p>For all applications, use the rate for the specific soil texture and organic matter (OM) as follows:</p> <p>Coarse Soil: 0.99 - 1.32 pts./A; &lt;3% OM 1.32 pts./A; ≥ 3% OM</p> <p>Medium Soil: 1.32 - 1.66 pts./A</p> <p>Fine Soil: 1.32 - 1.66 pts./A; &lt;3% OM 1.66 - 1.98 pts./A; ≥ 3% OM</p>	<p>contact with tomato plants.</p> <p>Apply when tomato plants are at least 4 inches tall.</p> <p>Apply in a minimum of 20 gallons of water per acre.</p> <p>Minimize spray contact with tomato plants.</p>
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**For Weed Control:**

- Refer to the **WEEDS CONTROLLED OR PARTIALLY CONTROLLED** section for list of weeds.

**Resistance Management:**

- Refer to the **WEED RESISTANCE MANAGEMENT** section.

**Precautions:**

- Application to varieties or cultivars with unknown tolerance to this product may result in crop injury.
- This product may damage transplants that have been weakened by any cause. To prevent damage, plant only healthy transplants and avoid planting when wet, cool, or unfavorable growing conditions exist.
- In transplanted tomatoes, if this product is applied pre-plant incorporated, incorporate to a depth less than the depth of transplanting, and use the lower end of the rate range for the given soil type, or damage may occur.
- For row middle applications where tomatoes are grown on sandy soils and where high soil moisture conditions can exist (e.g., low binding and high evaporation conditions), as may be found in the States of Florida, Georgia, Maryland, and Virginia, there is potential for crop injury in the form of leaf epinasty. The risk of this type of injury can be reduced by: a) incorporating this product immediately following application, b) applying this product 7 or more days before transplanting (but only after the beds have been formed), c) minimizing the application of this product onto the plastic of the bed, or d) any combination of the above.
- This product will not control emerged weeds. Control emerged weeds with an appropriate registered foliar herbicide or by mechanical means.

**USE RESTRICTIONS**

- Refer to the **RESTRICTIONS AND PRECAUTIONS** section for additional product use restrictions.
- Maximum Single Application Rate:** 1.98 pts./A
- Minimum Application Interval:** Not Applicable
- Maximum Annual Rate:** 1.98 pts./A/year
  - DO NOT** exceed 1.91 lbs. a.i./A/year of S-metolachlor-containing products.
- Apply only by ground application.
- When applying at 1.32 pts./A per year with a 30-day PHI:
  - DO NOT** exceed 2 applications per growing season and do not use adjuvants.
- Pre-harvest Interval (PHI):**
  - 30 days, if the total amount of this product applied does not exceed 1.32 pts./A/year.
  - 90 days, if the total amount of this product is greater than 1.32 pts./A/year.

**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 degrees below 0°F.

**PESTICIDE DISPOSAL:** Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Wastes resulting from the use of this product are toxic. Improper disposal of unused pesticide, spray mixture, or rinsate is a violation of Federal law. Pesticide, spray mixture, or rinsate that cannot be used according to label instructions must be disposed of according to Federal, State, or local procedures. For guidance in proper disposal methods, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office.

**CONTAINER HANDLING:**

**[[Nonrefillable Container (five gallons or less):]** Nonrefillable container. **DO NOT** reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use and disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by incineration.]

**[[Nonrefillable Container (greater than five gallons):]** Nonrefillable container. **DO NOT** reuse or refill this container. Offer for recycling if available. Triple rinse container or pressure rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or a mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by incineration.]

**[[Refillable Container (greater than five gallons):]** 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 person refilling. To clean container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by State and local authorities.]

**DO NOT USE CONTAINERS FOR THE STORAGE OF FOOD, FEED, OR DRINKING WATER!**

#### 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 Generic Crop Science, 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 Generic Crop Science, LLC and Seller harmless for any claims relating to such factors.

Generic Crop Science, 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. To the extent consistent with applicable law, 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 Generic Crop Science, LLC and Buyer and User assume the risk of any such use. To the extent consistent with applicable law, Generic Crop Science, LLC, MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

To the extent consistent with applicable law, neither Generic Crop Science, LLC nor Seller shall be liable for any incidental, consequential, or special damages resulting from the use or handling of this product. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF GENERIC CROP SCIENCE, LLC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF GENERIC CROP SCIENCE, LLC OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

Generic Crop Science, LLC and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of Generic Crop Science, LLC.

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#### [APPENDIX]

NOTE: Other products that contain equivalent active ingredient(s) and used at the same active ingredient rate(s) as the herbicide tank mix partner listed here may be used.

#### Tank-Mix Partner Table

Product Name	EPA Registration Number	Active Ingredient(s)
AAtrex	100-497 & 100-585	atrazine
Gramoxone	100-1431, 100-1652	paraquat
Roundup	524-549-(multiple)	glyphosate
Princep	100-526 & 100-603	simazine
Balance	264-1067	isoxaflutole
Liberty	264-829 & 7969-448	glufosinate-ammonium

Cotoran	66222-181	fluometuron
Caparol	100-620	prometryn
Eptam	10163-281 & 10163-283	EPTC
Treflan	34704-853-(multiple)	trifluralin
Prowl	241-337 & 241-418	pendimethalin
Pursuit	241-310	imazethapyr
Sonalan	10163-355 & 10163-356	ethalfluralin
Basagran	7969-112-(multiple)	bentazon
Butyrac	42750-39 & 42750-38	2-4DB
Storm	7050-59	bentazon + acifluorfen
Linex	61842-21	linuron
Lorox	61842-23	linuron
Tricor	70506-68 & 70506-103	metribuzin
Authority MTZ	279-3340	metribuzin + sulfentrazone
Canopy	352-444	metribuzin + chlorimuron
Authority First	279-3246	sulfentrazone + cloransulam
Classic	352-436	chlorimuron
FirstRate	62719-275	cloransulam
Sharpen	7969-278	saflufenacil
Sonic	62719-680	sulfentrazone + cloransulam
Verdict	7969-279	dimethenamid-p + saflufenacil
Flexstar	100-1101	fomesafen
Fusilade DX	100-1070	fluazifop
Fusion	100-1059	fluazifop + fenoxaprop
Prefix	100-1268	s-metolachlor + fomesafen
Python	62719-277	flumetsulam
Reflex	100-933	fomesafen
Flexstar GT	100-1385	fomesafen + glyphosate
Liberty	264-829 & 7969-448	glufosinate
Assure II	352-541 & 5481-646	quizalofop
Select	59639-3 & 59639-3-1381	clethodim
Poast	7969-58	sethoxydim
Stinger	62719-73	clopyralid

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{Note to Reviewer: The mention of the product name throughout this Master Label may be updated/replaced with the term "This product" on the Market Label.}

{Optional graphics to be used on any panel of final market label:}

<p>[www.FBN.com][FBN.com] [Available at www.FBN.com] [844-200-FARM (3276)] [Farmers First]</p>		<p>{any color}</p>  <p>FARMERS BUSINESS NETWORK™</p>
		
		

	 [ <b>HERBICIDE</b> ] [Herbicide]	
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[End of Optional Text]