

GCS

METOLACHLOR GROUP 15 HERBICIDE

Metola Plus 8EC

Herbicide for use in Corn (Field, Pop, Sweet, Grown for Seed), Cotton, Peanuts, Crop Group 6 Legume Vegetables (Succulent and Dried), Potatoes, Safflower, Sorghum (grain or forage), and Soybeans and Tomato

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

Contains 7.9 lbs. of active ingredient per gallon.
Contains safener.

KEEP OUT OF REACH OF CHILDREN CAUTION/PRECAUCION

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

FIRST AID

IF SWALLOWED:	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have person sip a glass of water if able to swallow.• Do not induce vomiting unless told to by a poison control center or doctor.• Do not give anything by mouth to an unconscious person.
IF IN EYES:	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15-20 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.• Call a poison control center or doctor for further treatment advice.

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 Assistant (Human or Animal), call **1-800-222-1222**. For Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), call CHEMTREC at **1-800-424-9300**.

See label booklet for complete Precautionary Statements, Directions For Use, and Storage and Disposal.

Manufactured For:
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EPA Reg. No. 94730-1

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

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

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

ENGINEERING CONTROL STATEMENTS

Mixers and loaders supporting aerial applications are required to use closed systems. The closed system must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.607(d)]. When using this closed system, the mixers and loaders PPE requirements may be reduced or modified as specified in the WPS.

When handlers used closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.607(d-f)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

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

ENVIRONMENTAL HAZARDS

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

Ground Water Advisory

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

Surface Water Advisory

This product may impact surface water quality due to runoff of rainwater. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having high potential for reaching surface water via runoff for several weeks or months after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of metolachlor 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 866-396-0465.

PHYSICAL AND CHEMICAL HAZARD

Do not mix or allow coming in contact with oxidizing agents. Hazardous chemical reaction may occur.

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.

GCS Metola Plus 8EC may not be mixed or loaded within 50 ft. of perennial or intermittent streams and rivers, natural or impounded lakes and reservoirs. **GCS Metola Plus 8EC** may 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 **GCS Metola Plus 8EC** 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 rainwater that may fall on the pad. Surface water shall not be allowed to either flow over or from the pad, which means the pad must be self-contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain at a minimum 110% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment capacity of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities, as described above, shall be maintained at all times. The above-specified minimum containment capacities do not apply to vehicles when delivering pesticide shipments to the mixing/loading site.

DIRECTIONS FOR USE

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

Endangered Species Protection Requirements

It is a Federal offense to use any pesticide in a manner that results in an unauthorized "take" (e.g., kill or otherwise harm) of an endangered species and certain threatened species, under the Endangered Species Act section 9. When using this product, you must follow the measures contained in the Endangered Species Protection Bulletin for the area in which you are applying the product. You must obtain a Bulletin no earlier than 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.

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

Do not apply **GCS Metola Plus 8EC** in windy conditions. Do not allow spray to overlap as crop injury can occur.

Do not apply this product by air in New York State. Not for Sale, Sale Into, Distribution and/or Use in Nassau and Suffolk Counties of New York State.

AGRICULTURAL USE REQUIREMENTS

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

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

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

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

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

PRODUCT INFORMATION

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

FOR ALL TANK MIXTURES: It is the pesticide user's responsibility to ensure that all products 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.

GCS Metola Plus 8EC is a selective herbicide that can be used pre-plant surface-applied, pre-plant incorporated, or pre-emergence treatment in water or liquid fertilizer to control listed annual grasses and broadleaf weeds in all types of corn, cotton, peanuts, pod crops, potatoes, safflower, grain or forage sorghum, and soybeans. Post-Emergence applications of **GCS Metola Plus 8EC** can be made on corn and soybeans.

WEED RESISTANCE MANAGEMENT

Metolachlor, the active ingredient in this product, is a Group 15 herbicide. Any weed population may contain or develop plants naturally resistant to this product and other Group 15 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Appropriate resistance-management strategies should be followed.

Weed Management

To delay herbicide resistance, take one or more of the following steps:

- Rotate the use of this product or other Group 15 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in the field.
- Use tank mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available, use the less resistance-prone partner at a rate that will control the target weed(s) equally as well as the more resistance-prone partner. Consult your local extension service or certified crop advisor if you are unsure as to which active ingredient is currently less prone to resistance.
- Adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information related to herbicide use and crop rotation, and that considers tillage (or other mechanical control methods), cultural (e.g., higher crop seeding rates; precision fertilizer application method and timing to favor the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Scout before and after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; or (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method such as hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields and planting clean seed.
- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- Contact your local extension specialist or certified crop advisors for additional pesticide resistance management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact Generic Crop Science LLC retailer, representative or call 866-396-0465.

Management of Resistant Biotypes

Since the occurrence of resistant weeds cannot be determined until after product use and scientific confirmation, manufacturer is not responsible for any losses that may result from the failure of this product to control resistant weed biotypes.

The following good agronomic practices are recommended to reduce the spread of resistant biotypes:

- If a naturally occurring resistant biotype is present in your application site, this product should be tank mixed or applied sequentially with an appropriately labeled herbicide with a different mode of action to achieve control.
- Cultural and mechanical control practices (e.g., crop rotation or tillage) may also be used as appropriate.
- Scout treated application site after herbicide applications and control escaping weeds including resistant biotypes before they set seed.
- Thoroughly clean equipment before leaving fields known to contain resistant biotypes.
- Contact your local sales representative, crop advisor, or extension agent to find out if suspected resistant weeds to this Mode of Actions have been found in your region. If resistant biotypes of target weeds have been reported, use the application rates of this product specified for your local conditions. Tank mix products so that there are multiple effective mechanisms of actions for each target weed.

Integrated Pest (Weed) Management

This product may be integrated into an overall weed pest management strategy whenever the use of an herbicide is required. Practices known to reduce weed development (tillage, crop competition) and herbicide use (weed scouting, proper application timing, banding) should be followed wherever possible. Consult local agricultural and weed authorities for additional IPM strategies established for your area.

APPLICATION INSTRUCTIONS

SOIL TEXTURES AND APPLICATION RATES

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

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

Coarse-Textured/Low Organic Matter Soils: Use the lower rate within the specified rate range.

Fine-Textured/High Organic Matter Soils: Use the higher rate within the specified rate range.

APPLICATION METHODS

Apply **GCS Metola Plus 8EC** alone or in combination with specified tank mix partners following pre-plant incorporated herbicides when used according to label instructions and such use is not prohibited on the respective labels.

Thoroughly clean sprayer/application device before applying **GCS Metola Plus 8EC**. Dispose of cleaning solution in a responsible manner. Do not use a sprayer or applicator contaminated with any other materials to avoid crop damage and/or clogging of the application device.

MIXING INSTRUCTIONS

Mix **GCS Metola Plus 8EC** alone with water or liquid fertilizer and apply as a spray:

- Fill the spray tank $\frac{1}{2}$ - $\frac{3}{4}$ full of water or liquid fertilizer.
- Add the specified amount of **GCS Metola Plus 8EC**.
- Add the remaining water or liquid fertilizer.
- Maintain sufficient agitation during mixing and application to maintain a uniform emulsion.

TANK MIX APPLICATIONS

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

Tank Mixtures:

- Fill the spray tank $\frac{1}{4}$ full with water, and begin agitation.
- Add tank mix partners (with the exception of paraquat or glyphosate), ensuring products disperse.
- Add **GCS Metola Plus 8EC**.
- Add paraquat, glyphosate/2,4-D, or glyphosate if these products are being used.
- Add the rest of the water.

For tank mixtures with atrazine, dicamba, linuron, simazine, pendimethalin, liquid fertilizers can replace all or part of the water as carrier, except for atrazine post-emergence and dicamba post-emergence tank mixes. For tank mixtures with atrazine, refer to the atrazine label for additional mixing instructions. For each mixture, check compatibility with liquid fertilizers before mixing in spray tank. For all tank mixtures, agitate during mixing and application to maintain a uniform suspension.

See **Special Mixing Instructions** for tank mixtures with fluometuron, atrazine or simazine + pendimethalin under the appropriate tank mixture section.

COMPATIBILITY TEST

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

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

If more than one herbicide is used, add them separately in the following order:

- Dry herbicides first, flowables next, and emulsifiable concentrates last.
- After each addition, shake or stir gently to thoroughly mix.
- The appropriate amount of herbicides for this test is:

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

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

For **GCS Metola Plus 8EC** tank mixtures with atrazine + simazine, use $\frac{1}{3}$ - $\frac{1}{2}$ the amount of atrazine specified and the remainder as simazine, depending on whether the 1:2 or 1:1 ratio of atrazine to simazine is to be applied.

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

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

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

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

APPLICATION TIMING

GCS Metola Plus 8EC alone or in some tank mixtures with other labeled herbicides may be applied for weed control in corn at various times. Refer to the **CORN** section of the label to determine if application timings listed below are specified.

Pre-Plant Surface Applications

- **45 days before planting:** For minimum-tillage or no-tillage systems only, apply **GCS Metola Plus 8EC** alone, or with **GCS Metola Plus 8EC** tank mixtures.
- **30-45 days before planting:** Make split applications, with $\frac{2}{3}$ the specified broadcast rate for the crop and soil texture applied initially and the remaining $\frac{1}{3}$ at planting.
- **Less than 30 days before planting:** Make split applications or a single application.

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

Pre-Plant Incorporated: Apply **GCS Metola Plus 8EC** to the soil and incorporate into the top 2 inches of soil within 14 days before planting, using a finishing disk, harrow, rolling cultivator, or similar implement capable of providing uniform 2-inch incorporation. Use a pre-plant incorporated application if furrow irrigation is used or when a period of dry weather after application is expected. If crop will be planted on beds, apply and incorporate **GCS Metola Plus 8EC** after bed formation, unless specified otherwise.

Pre-Emergence: Apply **GCS Metola Plus 8EC** during planting (behind the planter) or after planting but before weeds or crops emerge.

Post-Emergence: For corn, cotton, and soybean application: One application of **GCS Metola Plus 8EC** will provide pre-emergence control or partial control of annual grasses and broadleaf weeds listed in the "**Weeds Controlled**" section of this label. Application of this product alone will not control emerged weeds; **GCS Metola Plus 8EC** must be applied to a weed-free surface, or in tank mixture with products that provide post-emergence weed control. If weeds are present at the time of application, tank-mix with a labeled post-emergence herbicide and observe all directions for use, precautions, and restrictions on the label of the tank-mix partner. For additional post-emergence information follow the crop specific label requirements identified on this label.

SPECIAL APPLICATION PROCEDURES

CA Only (Corn, Safflowers, Crop Group 6 Legume Vegetables (succulent and dried)): Pre-Plant Incorporated: Broadcast this product alone or with tank mix partners listed on this label 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. Caution should be used when forming the beds that only soil from the **GCS Metola Plus 8EC** treated zone is used (i.e., untreated soil should not be brought to soil surface). If the application is made to pre-formed beds, incorporate this product with a tillage implement set to till 2-4 inches deep. Care should be taken during tilling to keep the tilled (**GCS Metola Plus 8EC** treated) soil on the beds.

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

Fall Applications in the states of Iowa, Minnesota, North Dakota, South Dakota, Wisconsin, portions of Nebraska and Illinois (see directions for use for corn, pod crops, and soybeans section for timing of application and other instructions): Apply **GCS Metola Plus 8EC** on medium- and fine-textured soils with more than 2.5% organic matter that will be planted to corn or soybeans in the following spring. The ground can be tilled before or after application.

Restrictions:

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

Ground Application: Apply **GCS Metola Plus 8EC** alone or in tank mixtures by ground equipment in a minimum of 10 gals. of spray mixture per acre unless otherwise specified. Use sprayers that provide accurate and uniform application. For **GCS Metola Plus 8EC** tank mixtures with wettable powder or dry flowable formulations, screens and strainers must not be finer than 50-mesh. Rinse sprayer thoroughly with clean water immediately after use.

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

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

LOW CARRIER VOLUME

Broadcast Ground Application Only

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

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

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

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

AERIAL APPLICATION

Apply **GCS Metola Plus 8EC** in water alone or in tank mixture with atrazine, linuron, or metribuzin in a minimum volume of 2 gals./A. Aerial applications of **GCS Metola Plus 8EC** can also be made with pendimethalin or trifluralin. Do not apply under conditions where uniform coverage cannot be obtained, or when excessive spray drift may occur.

MANDATORY SPRAY DRIFT MANAGEMENT

Aerial Applications:

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

Ground Boom Applications:

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

Boomless Ground Applications:

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

SPRAY DRIFT ADVISORIES

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

IMPORTANCE OF DROPLET SIZE

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

Controlling Droplet Size – Ground Boom

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

Controlling Droplet Size – Aircraft

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

BOOM HEIGHT – Ground Boom

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

RELEASE HEIGHT – Aircraft

Higher release heights increase the potential for spray drift.

SHIELDED SPRAYERS

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

TEMPERATURE AND HUMIDITY

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

TEMPERATURE INVERSIONS

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

WIND

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

BOOMLESS GROUND APPLICATIONS

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

HANDHELD TECHNOLOGY APPLICATIONS

Take precautions to minimize spray drift.

SENSITIVE AREAS

GCS Metola Plus 8EC must only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g., when wind is blowing away from the sensitive areas).

CHEMIGATION - CENTER PIVOT IRRIGATION

GCS Metola Plus 8EC alone or in tank mixture with other herbicides on this label that are registered for center pivot application can be applied in irrigation water pre-emergence (after planting but before weeds or crop emerge) at specified rates listed on this label. Apply this product only through a center pivot irrigation system.

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

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

Operating Instructions

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

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

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

CLEANING INSTRUCTIONS

- Do not use the same sprayer without thoroughly cleaning; minute residues of **GCS Metola Plus 8EC** in the tank can injure crops.
- Wash sprayer and spray equipment thoroughly with clean water immediately after use.
- Drain any remaining spray solution of **GCS Metola Plus 8EC** from the spray tank and dispose of according to label disposal instructions.
- Rinse the spray tank and refill with water, adding 1 cup heavy-duty detergent per 20 gallons of water.
- Recycle this mixture through the equipment for 5 minutes, and spray out.
- Clean pump and nozzle screens thoroughly.
- Wash away any spray mixture from the outside of spray tank, nozzles, or spray rig.
- Dispose of all rinse water in compliance with local, State, and Federal guidelines.

USE PRECAUTIONS

Where directions specify a **GCS Metola Plus 8EC** tank mixture with atrazine formulations, follow the rates, instructions, and limitations on the atrazine product label.

Dry weather following pre-emergence application of **GCS Metola Plus 8EC** or a tank mixture can reduce efficacy. Cultivate if weeds develop.

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

USE RESTRICTIONS

- Do not apply under conditions which favor runoff or wind erosion of soil containing this product to non-target areas.
- Do not apply to impervious substrates such as paved or highly compacted surfaces.
- Do not apply to powdery dry or light sand soils when conditions favor wind erosion. Soil surfaces must first be settled by rainfall or irrigation.
- Do not use tail-water from the first flood or furrow irrigation of treated fields to treat non-target crops unless at least ½ inch of rainfall has occurred between application and the first irrigation.
- If **GCS Metola Plus 8EC** is incorporated, any supplemental tillage before planting must not exceed the depth of incorporation.

APPLICATION WITH IMPREGNATED DRY BULK GRANULAR FERTILIZERS

GCS Metola Plus 8EC may be impregnated or coated on many dry bulk granular fertilizers and applied alone or with **GCS Metola Plus 8EC** tank mixtures that are registered for pre-plant incorporation or pre-plant surface application. Follow all directions for use restrictions and precautions on the **GCS Metola Plus 8EC** label regarding corn, rates per acre, soil texture, application methods, and rotational crops.

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

Prepare the herbicide/fertilizer mixture by using any closed drum, belt, ribbon, or other commonly used dry bulk fertilizer blender. Space nozzles used to spray **GCS Metola Plus 8EC** onto the fertilizer to provide uniform spray coverage. Aim the spray onto the fertilizer only, avoiding the walls of the blender.

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

Calculate the amount of **GCS Metola Plus 8EC**, atrazine, atrazine/simazine, simazine, metribuzin, or ethalfluralin using the following formula:

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

Application by Pneumatic (Compressed Air) Equipment (GCS Metola Plus 8EC alone): High humidity, high urea concentrations, low fertilizer use rates, and dusty fertilizer can cause fertilizer mixtures to build up and/or plug the distributor head, air tubes, or nozzle deflector plates. To minimize buildup, premix 1-4 pints/gallon **GCS Metola Plus 8EC** and ExxonMobil™ Aromatic 200. Aromatic 200 is a noncombustible, nonflammable petroleum product that can be used in either a fertilizer blender or through direct injection systems. Do not use drying agents when using Aromatic 200.

If impregnating **GCS Metola Plus 8EC** in a blender before application, substitute drying agent for the Aromatic 200 for a dryer mixture. Do not use drying agents with On-The-Go impregnation equipment.

Precautions: Use mixtures of **GCS Metola Plus 8EC** and Aromatic 200 on dry fertilizer only. Poor results or crop injury can occur if these mixtures are used in water or liquid fertilizer solutions for spraying applications.

Restrictions:

To avoid potential for explosion:

- DO NOT impregnate **GCS Metola Plus 8EC** on ammonium nitrate, potassium nitrate, or sodium nitrate, either alone or in blends with other fertilizers.
- DO NOT use **GCS Metola Plus 8EC** on straight limestone as absorption will not occur.
- Fertilizer blends containing limestone can be impregnated.

Application of Impregnated Dry Bulk Granular Fertilizer

Apply 200 to 700 pounds of the herbicide/fertilizer mixture per acre. Apply the mixture uniformly to the soil with properly calibrated equipment immediately after blending. Uniform application of the herbicide/fertilizer mixture is essential in order to prevent possible crop injury to subsequent rotational crops. Non-uniform application results in unsatisfactory weed control. In areas where conventional tillage is practiced, incorporate the mixture shallowly into the soil. On fine- or medium-textured soils in areas where soil incorporation is not planned, i.e., reduced-tillage situations or in some conventional till situations, apply **GCS Metola Plus 8EC** approximately 30 days before planting to allow moisture to move the herbicide/fertilizer mixture into the soil. On coarse-textured soils, apply **GCS Metola Plus 8EC** approximately 14 days prior to planting. Do not use herbicide/fertilizer mixtures on crops where bedding occurs.

GCS Metola Plus 8EC applied alone controls or partially controls the following weeds:

Barnyardgrass (watergrass)	Foxtail millet	Shattercane ¹
Bristly foxtail	Galinsoga	Signalgrass (<i>Brachiaria</i>)
Carpetweed	Giant foxtail	Southwestern cupgrass
Common purslane ¹	Goosegrass	Tall waterhemp
Common waterhemp	Green foxtail	Texas panicum ³
Crabgrass	Hairy nightshade ¹	Volunteer sorghum ¹
Crowfootgrass	Pigweed	Wild proso millet ²
Eastern black nightshade	Prairie cupgrass	Witchgrass
Eclipta ¹	Red rice	Woolly cupgrass ²
Fall panicum	Robust foxtails (purple, white)	Yellow foxtail
Florida beggarweed ³	Sandbur ¹	Yellow nutsedge
Florida pusley	Seedling johnsongrass ¹	

¹ Partial control. Refer to the **PRODUCT INFORMATION** section. Weed control is erratic due partially to variable weather conditions.

² For control of these weeds in corn only, refer to the **Corn - Woolly Cupgrass and Wild Proso Millet Control Program** section of this label.

³ **Florida Beggarweed:** Apply a minimum of 2 pints/acre pre-emergence for partial control. **Texas Panicum:** Apply a minimum of 2 pints/acre using a center pivot irrigation system.

To improve weed control:

1. Till moist soil thoroughly to destroy germinating and emerged weeds. If **GCS Metola Plus 8EC** is applied Pre-Plant incorporated, tillage may be used to incorporate **GCS Metola Plus 8EC** if uniform 2-inch incorporation is achieved as specified in **Application Procedures**.
2. Plant crop into moist soil immediately after tillage. If **GCS Metola Plus 8EC** is to be used pre-emergence, apply at planting or immediately after planting.
3. Irrigate ½ - 1 inch of water with a sprinkler system, if available, within 2 days of application. Irrigate with ½ inch water volume on coarse-textured soils, and 1 inch on fine-textured soils. Refer to the section on **Center Pivot Irrigation Application** for instructions with this application method.
4. If irrigation is impossible and rain does not occur within 2 days after planting and application, weed control may be decreased. Under these conditions, perform a shallow cultivation as soon as weeds emerge.

To improve weed control in corn, use 2.0 - 2.67 pts./A or the pre-plant surface-applied rates for **GCS Metola Plus 8EC** alone or in tank mixture, if allowed, when making pre-plant incorporated or pre-emergence applications.

ROTATIONAL CROPS**GCS Metola Plus 8EC APPLIED ALONE**

If a crop treated with **GCS Metola Plus 8EC** alone is lost, any crop on this label may be replanted immediately. Do not make a second broadcast application of this product. If the original application was banded and the second crop is planted in the untreated row middles, make a second banded treatment.

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

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

Restriction:

- Do not make a second broadcast application of **GCS Metola Plus 8EC**.

GCS Metola Plus 8EC TANK MIXTURES

For **Rotational Crops** restrictions for **GCS Metola Plus 8EC** used in tank mixtures, refer to the statements/restrictions above for **GCS Metola Plus 8EC** and to the respective product labels of any mixing partner(s) for additional statements/restrictions.

CORN (FIELD, SWEET, POP, GROWN FOR SEED)

GCS Metola Plus 8EC APPLIED ALONE

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

1. PRE-PLANT SURFACE APPLIED

Refer to instructions for use of **GCS Metola Plus 8EC** alone under **Application Instructions**.

a. Fall Application

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

In all locations, apply to crop stubble after harvest when the sustained soil temperature at a 4-inch depth is less than 55° F and falling. In minimum-till or no-tillage systems on soils having greater than 2.5% organic matter, apply 1.67 - 2.0 pts./A on *medium-textured* and 2.0 pts./A on *fine-textured soils*. A fall and/or spring tillage operation may precede the application. Minimize furrow and ridge formation in the tillage operations.

Restrictions:

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

- b.** Use on medium- and fine-textured soils with minimum-tillage or no-tillage systems in CO, IA, IL, IN, KS, KY, MN, MO, MT, ND, NE, SD, TN, WI, and WY. Apply 2/3 the specified rate of **GCS Metola Plus 8EC** (1.67 pts./A on medium soils and 2.0 pts./A on fine soils) as a split treatment 30-45 days before planting and the remainder at planting. Applications made less than 30 days prior to planting may be as either a split or single treatment. Apply 1.33 pts./A on coarse soils not more than 2 weeks prior to planting.

Restrictions:

- If a spring application is made, the total rate of the fall plus spring applications must not exceed the maximum total rate for corn.

- c.** On medium- and fine-textured soils with minimum- or no-tillage systems in CT, DE, MA, MD, ME, MI, NH, NY, OH, PA, RI, VA, VT, and WV, pre-plant surface applications may be applied following the directions for use above. If the amount of rainfall results in unsatisfactory length of weed control following the earlier treatment, a post-emergence application of an appropriately labeled broadleaf and/or grass weed herbicide may be used, i.e., Metola Plus, primisulfuron-methyl, prosulfuron, nicosulfuron, dicamba, bromoxynil, or 2,4-D. Observe all directions for use, restrictions, precautions, and limitations on the post-emergent herbicide label.

2. PRE-PLANT INCORPORATED OR PRE-EMERGENCE

Follow instructions for use of **GCS Metola Plus 8EC** alone under **Application Instructions**.

Coarse soils: Apply 1.0 - 1.33 pts./A of **GCS Metola Plus 8EC** if organic matter content is less than 3%, or 1.33 pts./A if organic matter content is 3% or greater.

Medium soils: Apply 1.33 - 1.67 pts./A of **GCS Metola Plus 8EC**.

Fine soils: Apply 1.33 - 1.67 pts./A of **GCS Metola Plus 8EC** if organic matter content is less than 3%, or 1.67 - 2.0 pts./A if organic matter content is 3% or greater.

CALIFORNIA ONLY

Pre-Plant Incorporated: See the **SPECIAL APPLICATION PROCEDURES** Section of this label.

3. LAY-BY OR POST-EMERGENCE

To extend the duration of weed control in corn, apply the maximum rate of 2.0 pts. per acre **GCS Metola Plus 8EC** after corn emerges until the corn reaches 40 inches tall, following any pre-plant surface-applied, pre-plant incorporated, or pre-emergence herbicide application, including **GCS Metola Plus 8EC**. For best results, apply to soil free of emerged weeds and directed towards the base of corn plants in excess of 5 inches tall. The total **GCS Metola Plus 8EC** rate applied on corn during any one crop year must not exceed 4 pts./A, depending on soil texture.

Shattercane, Wild Proso Millet, Woolly Cupgrass, and Eclipta - Partial Control: Apply 2.0 - 2.55 pts./A of **GCS Metola Plus 8EC** as a single application, or apply 1.0 - 1.33 pts./A pre-plant incorporated followed by 1.0 - 1.33 pts./A of **GCS Metola Plus 8EC** pre-emergence. Make pre-emergence application during or after planting, but before weeds and corn emerge. Apply the 1.33 pts./A rate of **GCS Metola Plus 8EC** when a heavy infestation of shattercane, wild proso millet, woolly cupgrass, or eclipta is expected. Make a shallow cultivation to control any late emerging weeds. Do not apply more than a total of 2.55 pts./A **GCS Metola Plus 8EC**.

Woolly Cupgrass and Wild Proso Millet Control:

- Medium soils: Apply 1.67 pts./A **GCS Metola Plus 8EC** early pre-plant, pre-plant incorporated, or pre-emergence. Fine soils: Apply 2.0 pts./A up to the maximum specified label rate. Lightly incorporate with a rotary hoe if rainfall does not occur within 5 - 7 days.
- Apply a post-emergence tank mix of 0.38 oz./A primisulfuron-methyl or 1 packet per 4 acres primisulfuron-methyl and prosulfuron plus nicosulfuron at 0.33 oz./A plus 1 qt. of crop oil concentrate plus 1 gal./A of 28% nitrogen, or the equivalent amount of ammonium sulfate, when grasses are 2-3 inches tall and the corn is at least 4 inches tall.
- Cultivate 14-21 days after the post-emergence application.

Precaution:

- If annual weeds escape following a pre-plant surface, pre-plant incorporated, or pre-emergence treatment of **GCS Metola Plus 8EC**, follow with a post-emergence application of an appropriately labeled broadleaf and/or grass weed herbicide, i.e., atrazine, primisulfuron-methyl, metolachlor, prosulfuron, nicosulfuron, dicamba, bromoxynil, and 2,4-D.

Restrictions:

- Do not graze or feed forage from treated areas for 30 days following application
- Do not apply more than the specified label rate for a given soil texture per year, either as a single or split treatment.
- Do not use **GCS Metola Plus 8EC** on peat or muck soils.
- Bromoxynil may be applied post-emergence alone or in tank-mix combination with atrazine. Do not exceed 1.2 lbs. a.i./A of atrazine in tank-mix combination with bromoxynil post-emergence. Refer to the atrazine, bromoxynil labels for specific rates and precautions.
- In corn, do not apply more than 2.75 pts./A **GCS Metola Plus 8EC** either pre-plant surface, pre-plant incorporated, or pre-emergence treatment on soils having an organic matter content between 6%-20% or up to 2.0 pts./A on any soil for extended residual control and where severe stands of problem weeds are expected.
- Do not apply to frozen ground.

GCS Metola Plus 8EC TANK MIXES FOR CORN

GCS Metola Plus 8EC in any tank mixture for corn (except **GCS Metola Plus 8EC** + atrazine post-emergence and **GCS Metola Plus 8EC** + dicamba post-emergence) may be applied in water or fluid fertilizer. Use only water in the **GCS Metola Plus 8EC** + atrazine or the **GCS Metola Plus 8EC** + dicamba post-emergence tank mixes.

GCS Metola Plus 8EC Tank Mixtures for Corn - Additional Weeds Controlled and Special Instructions

Tank Mix: GCS Metola Plus 8EC +	Weeds Controlled
Atrazine and/or Simazine (Pre-Plant Surface, PPI, PRE)	Weeds Controlled: Browntop panicum, Cocklebur, Common purslane, Hairy nightshade, Lambsquarters, Morningglory, Ragweed, Smartweed, Velvetleaf
Atrazine (Post)	Weeds Controlled: Jimsonweed, Kochia, Lambsquarters, Mustard, Prickly sida, Ragweed, Smartweed, Velvetleaf
	Weeds Partially Controlled: Cocklebur, Morningglory
Dicamba (Field Corn)	Weeds Controlled: Lambsquarters, Ragweed, Smartweed
	Weeds Partially Controlled: Cocklebur, Jimsonweed, Morningglory, Velvetleaf
Atrazine+Linuron	Weeds Controlled: Browntop panicum, Cocklebur, Common purslane, Hairy nightshade, Lambsquarters, Morningglory, Pigweed, Ragweed, Smartweed, Velvetleaf
Atrazine or Simazine+Pendimethalin	Weeds Controlled: Browntop panicum, Cocklebur, Common purslane, Hairy nightshade, Lambsquarters, Morningglory, Pigweed, Ragweed, Smartweed, Velvetleaf
Atrazine/Dicamba	Weeds Controlled: Cocklebur, Common purslane, Hairy nightshade, Jimsonweed, Kochia, Lambsquarters, Morningglory, Mustard, Pigweed, Prickly sida, Ragweed, Smartweed, Velvetleaf

MIXING INSTRUCTIONS

Special Mixing Instructions for GCS Metola Plus 8EC + atrazine or simazine and pendimethalin:

- Fill the spray tank ¼ full with water or fluid fertilizer and start agitation.
- Add a compatibility agent at 4 pts./100 gals. spray mixture, such as Unite or X-77.
- Add the atrazine or simazine and allow it to become dispersed.
- Add **GCS Metola Plus 8EC** and pendimethalin.
- Add the rest of the water.
- Follow the directions for use, rates, and restrictions on the tank mix partner label(s).
- In minimum-tillage and no-tillage systems, mix with paraquat for control of most emerged annual weeds and suppression of perennial weeds; or with glyphosate/2,4-D for suppression of emerged field bindweed and control or suppression of annual weeds; or with glyphosate for control of most emerged annual and perennial weeds.
- Refer to the **GCS Metola Plus 8EC TANK MIXES for Corn - Tank Mixture with Atrazine; or Atrazine + 2,4-D; or Atrazine + 2,4-D/Dicamba for Minimum-Tillage or No-Tillage Systems** sections for specific directions for 2,4-D or dicamba burndown combinations in Minimum-Tillage and No-Tillage systems.
- **GCS Metola Plus 8EC** in any tank mixture for corn may be applied in water or fluid fertilizer, except as noted.
- Refer to **Corn (Field, Pop, Sweet, Grown for Seed) - GCS Metola Plus 8EC APPLIED ALONE**, for sequential post-emergence treatments if escape weeds develop.

Restrictions for All Tank Mixes on Corn:

- For all applications to corn, do not graze or feed forage from treated areas for 30 days following application.
- When applying **GCS Metola Plus 8EC** in tank mixture with atrazine, do not exceed the specified amount of atrazine per acre per year. 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.
- In corn, do not apply more than 2.0 pts./A of **GCS Metola Plus 8EC** in combinations on any soil for extended residual control and where severe stands of problem weeds are expected.
- Do not apply more than the label rate for a given soil texture per year, either as a split or single treatment.

1. TANK MIXTURE WITH ATRAZINE OR SIMAZINE, OR ATRAZINE + SIMAZINE - Pre-Plant Surface, Pre-Plant Incorporated, or Pre-Emergence

In addition to the weeds controlled by **GCS Metola Plus 8EC** alone, **GCS Metola Plus 8EC** + atrazine or simazine, or **GCS Metola Plus 8EC** + atrazine + simazine, applied pre-plant surface, pre-plant incorporated, or pre-emergence, also controls the following weeds:

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

Apply **GCS Metola Plus 8EC** + atrazine or simazine, or **GCS Metola Plus 8EC** + atrazine + simazine either pre-plant surface, pre-plant incorporated, or pre-emergence.

Pre-Plant Surface-Applied: Follow instructions for use of **GCS Metola Plus 8EC** alone under **Application Instructions** and under application instructions for **GCS Metola Plus 8EC** alone on corn. Apply **GCS Metola Plus 8EC** + atrazine or simazine, or **GCS Metola Plus 8EC** + atrazine + simazine on medium soils (1.67 pts./A of **GCS Metola Plus 8EC** + the label rate of atrazine or simazine or atrazine + simazine combined) and on fine soils (1.67 - 2.0 pts./A of **GCS Metola Plus 8EC** + the label rate of atrazine or simazine, or atrazine + simazine combined) in minimum-tillage and no-tillage systems in CO, IA, IL, IN, KS, KY, MN, MO, MT, ND, NE, SD, TN, WI, and WY. Apply the tank mixtures as a split or single treatment in those states and as indicated in the **GCS Metola Plus 8EC APPLIED ALONE - Pre-Plant Surface-Applied** section of the label for corn. On coarse soils, apply 1.33 pts./A of **GCS Metola Plus 8EC** and the label rate of atrazine or simazine, or atrazine + simazine combined.

Pre-Plant Incorporated or Pre-Emergence: Follow instructions for use of **GCS Metola Plus 8EC** alone under **Application Instructions**. Apply **GCS Metola Plus 8EC** in combination with atrazine and using the appropriate rates from the **GCS Metola Plus 8EC + Atrazine or Simazine, or GCS Metola Plus 8EC + Atrazine + Simazine table**.

CALIFORNIA ONLY

Pre-Plant Incorporated: See the SPECIAL APPLICATION PROCEDURES Section of this label.

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

For more consistent partial control of shattercane, wild proso millet, wooly cupgrass and eclipta where **GCS Metola Plus 8EC** is applied in tank mixture or sequentially with other registered corn herbicides, apply 2.0 - 2.33 pts. per acre as a single application or make the following applications:

1. Apply 1.0 - 1.33 pts./A of **GCS Metola Plus 8EC** + the label rate of atrazine or simazine pre-plant incorporated, followed by 1.0 - 1.33 pts./A of **GCS Metola Plus 8EC** pre-emergence. Make the pre-emergence application during or after planting, but before weeds and corn emerge.
2. Apply **GCS Metola Plus 8EC** at 1.33 pts./A alone or in tank mix combination with up the label rate of atrazine or simazine, pre-plant incorporated. Do not exceed the total rate of triazine herbicide listed for corn grown on a given soil texture. Follow with a post-directed application of ametryn at the label rate. Refer to the ametryn label for specific directions for the post-directed application.
3. Apply EPTC or Butylate at label rates pre-plant incorporated, followed by a pre-emergence application of **GCS Metola Plus 8EC** at 1.0 - 1.33 pts./A. Do not use EPTC or Butylate on soils where rapid degradation has been shown to occur. Make the pre-emergence application during or after planting, but before weeds and corn emerge.

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

Table 1. GCS Metola Plus 8EC + Atrazine or Simazine, or GCS Metola Plus 8EC + Atrazine + Simazine, Pre-Plant Incorporated or Pre-Emergence - Corn (Field, Pop, Sweet, Grown for Seed)

BROADCAST RATES PER ACRE of GCS Metola Plus 8EC				
SOIL TEXTURE	Less than 3% Organic matter		Greater than 3% Organic matter	
Coarse	0.85 - 1.0 pts.*	0.85 - 1.0 pts.**	1.0 pts.*	1.0 pts.**
Medium	1.0 - 1.33 pts.*	1.0 - 1.33 pts.**	1.33 pts.*	1.33 pts.**
Fine	1.33 pts.*	1.33 pts.**	1.33 - 1.67 pts.*	1.33 - 1.67 pts.**

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

* Plus the rate of atrazine or simazine. Use simazine instead of atrazine when heavy infestations of crabgrass or fall panicum are expected. On soils having between 6% and 20% organic matter, use up to 2.33 pts./A **GCS Metola Plus 8EC** in tank mix combination with the label rate of atrazine. Refer to the atrazine label for weeds controlled at this reduced rate.

** Plus the rate of atrazine and simazine.

2. TANK MIXTURES WITH ATRAZINE - Post-Emergence

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

Coarse soils: Apply 1.0 pts./A of **GCS Metola Plus 8EC** + the label rate of atrazine.

Medium soils: 1.33 pts./A of **GCS Metola Plus 8EC** + the label rate of atrazine.

Fine soils: 1.33 - 1.67 pts./A of **GCS Metola Plus 8EC** + the label rate of atrazine. Apply this tank mixture before grass and broadleaf weeds pass the 2-leaf stage and before corn exceeds 5" tall. Application to weeds larger than the 2-leaf stage will generally result in unsatisfactory control.

Lay-By Applications: Apply to corn plants less than 12" tall. Direct applications to corn in >5" tall to the base of the corn plants. Apply over the top to corn plants <5" tall. Corn leaf burn can occur, but will not impact growth or yield. Occasionally, some corn leaf burn may result, but this should not affect later growth or yield. Do not apply this post-emergence tank mixture in fluid fertilizer, or severe crop injury may occur. For better control of cocklebur, morningglory, velvetleaf, and yellow nutsedge on fine-textured soils above 3% organic matter, apply the label rate of atrazine with 1.33-1.67 pts./A of **GCS Metola Plus 8EC**.

Tank mixtures of **GCS Metola Plus 8EC** + atrazine can be applied following application of any registered pre-plant surface applied, pre-plant incorporated, or pre-emergence corn herbicide, including **GCS Metola Plus 8EC** + atrazine.

Refer to the atrazine label for geographic, soil-texture, and rotational restrictions.

Restriction:

- Do not exceed 4 pints of **GCS Metola Plus 8EC** and the atrazine rate must not exceed the amount allowed on the label during one crop year.

3. TANK MIXTURES WITH DICAMBA

Pre-Emergence: Use this tank mixture only on field corn which is flat-planted (no furrows) in CO, IA, IL, IN, KS, MN, NE, OH, SD, and WI if the tank mix partner is registered in the State. In addition to the weeds controlled by **GCS Metola Plus 8EC** alone, **GCS Metola Plus 8EC** + dicamba, applied pre-emergence controls lambsquarters, ragweed, smartweed, and partially controls cocklebur, jimsonweed, morningglory, and velvetleaf.

Apply **GCS Metola Plus 8EC** + Dicamba Pre-Emergence.

- **Medium soils:** Broadcast the label rate of dicamba with 1.33 pts./A of **GCS Metola Plus 8EC**.
- **Fine soils:** Broadcast the label rate of dicamba with 1.33 - 1.67 pts./A of **GCS Metola Plus 8EC** tank mixture to the soil surface at planting or after planting, but before corn emerges. Plant corn at least 1½" deep and apply behind planting equipment, avoiding incorporation by the planter wheel or other seed covering device. Do not incorporate before corn emerges. If it is necessary to rotary hoe to break the soil crust, do not disturb the soil more than ½" deep.
- **Coarse soils:** Do not apply on soils with less than 2.5% organic matter.

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

Apply 1.0 - 1.5 pts. of **GCS Metola Plus 8EC** + the label rate of dicamba by ground equipment when pigweed plants are <3" tall and before corn is >5" tall in a minimum of 20 gals. of spray per acre. Use the lower rate within the specified rate range on coarse-textured and low organic matter soils. Use the higher rate within the specified rate range on fine-textured and high organic matter soils.

Restrictions:

- Do not allow **GCS Metola Plus 8EC** to drift to non-target plants such as soybeans during application.
- Do not apply with aircraft.

4. TANK MIXTURE WITH ATRAZINE AND LINURON - Control of Lambsquarters and Pigweed

For prolonged control of lambsquarters and pigweed in DE, MD, NJ, NY, PA, VA, and WV, apply **GCS Metola Plus 8EC** pre-emergence in tank mix combination with atrazine + linuron. Apply **GCS Metola Plus 8EC** and atrazine according to the rates specified in the Table 1 or linuron according to label rates.

Observe all directions for use, restrictions, precautions, and limitations on the **GCS Metola Plus 8EC**, atrazine, and linuron labels when applying these products in tank mix combinations.

5. TANK MIXTURE WITH ATRAZINE OR SIMAZINE + PENDIMETHALIN - Prolonged Control of Lambsquarters and Pigweed in Field Corn Only (Northeast U.S., including MI, IN, KY, and States East of These)

For prolonged control of lambsquarters, pigweed, and other annual broadleaf and grass weeds, apply **GCS Metola Plus 8EC** in tank mix combination with atrazine* or simazine + pendimethalin after planting but before corn or weeds emerge. Apply using ground equipment in a minimum of 10 gals. water or 20 gals. liquid fertilizer. Apply by air in a minimum of 5 gals. water. Refer to Table 1 of this label for rates of **GCS Metola Plus 8EC** to be applied. Apply pendimethalin, atrazine or simazine at the label rate.

Some formulations of atrazine and pendimethalin are not compatible. Before using this tank mixture, a compatibility test must be conducted. See the **COMPATIBILITY TEST** section of this label.

Mixing Instructions:

- Fill the spray tank ¼ full with water or fluid fertilizer and start agitation.
- Add a compatibility agent at 4 pts./100 gals. spray mixture, such as Unite or X-77.
- Add the atrazine or simazine and allow it to become dispersed.
- Add **GCS Metola Plus 8EC** and pendimethalin.
- Add the rest of the water.

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

6. TANK MIXTURE WITH ATRAZINE OR SIMAZINE OR ATRAZINE + SIMAZINE, WITH PARAQUAT, GLYPHOSATE + 2,4-D, OR GLYPHOSATE - Minimum-Tillage or No-Tillage Systems

In minimum-tillage or no-tillage systems where corn is planted directly into a cover crop, stale seedbed, established sod, or previous crop residues, the contact herbicides paraquat, glyphosate + 2,4-D, or glyphosate may be added to a tank mix of **GCS Metola Plus 8EC** + atrazine or simazine, or **GCS Metola Plus 8EC** + atrazine + simazine. The **GCS Metola Plus 8EC** + atrazine or simazine, or **GCS Metola Plus 8EC** + atrazine + simazine portion of the tank mixture provides pre-emergence control of the weeds listed on this label in the tank mixture section for **GCS Metola Plus 8EC + Atrazine or Simazine, or GCS Metola Plus 8EC + atrazine + simazine - Pre-Plant Surface, Pre-Plant Incorporated, or Pre-Emergence**.

Application: Apply before, during, or after planting, but before the corn emerges, at the rates specified below. Add paraquat, glyphosate or glyphosate + 2,4-D at the label broadcast rates. See the paraquat, glyphosate or glyphosate + 2,4-D labels for weeds controlled, label rates for specific weeds, and other use directions.

- Apply surfactant at 1 or 2 pts./100 gals. of spray mixture with 75% or greater or 50 - 74% nonionic active ingredient, respectively. This treatment will not control weeds greater than 6" tall.
- Apply in 20-60 gals. of water or fluid fertilizer per acre with ground equipment.
- On coarse soils, apply 1.0 pt./A of **GCS Metola Plus 8EC** with the label rate of all tank mix partners,
- On medium soils, apply 1.33 pts./A of **GCS Metola Plus 8EC** with the label rate of all tank mix partners.
- On fine soils*, apply 1.33-1.67 pts./A of **GCS Metola Plus 8EC** with the label rate of all tank mix

Notes:

1. Use simazine in preference to atrazine when heavy infestations of crabgrass or fall panicum are expected.
2. When using the tank mixture of **GCS Metola Plus 8EC** + atrazine + simazine, use equal rates of atrazine and simazine as shown when heavy broadleaf weed infestations are expected. When heavy infestations of crabgrass or fall panicum are expected, use a 1:2 ratio of atrazine + simazine instead of the 1:1 ratio given.
3. *For cocklebur, yellow nutsedge, and velvetleaf control on *fine-textured soils* above 3% organic matter, apply the label rate of atrazine and/or simazine, with 1.33 - 1.67 pts./A of **GCS Metola Plus 8EC**.

Restriction:

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

7. TANK MIXTURE WITH ATRAZINE, OR ATRAZINE + 2,4-D, OR ATRAZINE + 2.4-D + DICAMBA - Minimum-Tillage or No-Tillage Systems

In minimum-tillage or no-tillage systems where corn is planted directly into a cover crop, stale seedbed, established sod, or previous crop residues, applying **GCS Metola Plus 8EC** in combination with atrazine will kill most emerged small annual weeds. Apply **GCS Metola Plus 8EC** + atrazine before, during, or after planting, but before corn emerges, according to the rates in Table 1.

Where heavy crop residues exist, add the label rate of an appropriately labeled 3.8 lbs. a.i./gal. 2,4-D amine to the spray tank last and apply in a minimum of 25 gals. carrier per acre.

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

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

8. TANK MIXTURE WITH DICAMBA + ATRAZINE - Conservation Tillage - Field and Silage Corn

In conservation tillage systems where corn is planted directly into a cover crop or previous crop residue, **GCS Metola Plus 8EC** + dicamba/atrazine will kill most emerged small annual weeds. Apply **GCS Metola Plus 8EC** + dicamba/atrazine before, during, or after planting, but before corn emergence on medium and fine soils with greater than 2.5% organic matter. For fields with existing vegetation exceeding 3" tall or when very dry conditions exist, add paraquat at its label rate. Apply **GCS Metola Plus 8EC** + dicamba/atrazine post-emergence to field corn <3" tall and before weedy grasses exceed the 2-leaf stage. As carriers, nitrogen solutions and complete liquid fertilizers, applied before corn emergence, enhance burndown of existing weeds.

Restriction:

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

COTTON

GCS Metola Plus 8EC APPLIED ALONE

Application: Apply **GCS Metola Plus 8EC** pre-emergence only in Area 1* at the rate of 0.50-1.0 pt./A on sandy loams, 0.67-1.33 pts./A on medium soils, or 1.0-1.33 pts./A on fine soils. Apply **GCS Metola Plus 8EC** pre-plant incorporated or pre-emergence in Area 2** at 1.0 pt./A on sandy loams, 1.0-1.33 pts./A on medium soils, or 1.33 pts./A on fine soils. Apply this product post-emergence to cotton and pre-emergence to weeds at 0.75 to 1.33 pts./A according to the state rate restrictions in the Post-emergence section below.

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

**Area 2 = NM, OK, and TX

Restriction:

- Do not use on sand and loamy sand.

Pre-Plant Incorporated (NM, OK, and TX Only): Apply to the soil and incorporate into the top inch of soil immediately before planting, at planting, or after planting, but before crop or weeds emerge. Use a rolling cultivator or similar implement to uniformly incorporate not more than 1-inch deep. Use a pre-plant incorporated application if furrow irrigation is used or when a period of dry weather after application is expected. Where furrow irrigation is used, wet the top of the bed for best results. If the crop is to be planted on beds, apply and incorporate after bed formation. Plant cotton below the zone of incorporation; i.e., at least 1 inch on fine soils and 1.5 inches on coarse and medium soils. If incorporated prior to planting, use a planter that will result in a minimum of soil disturbance.

Precaution:

- For best control of yellow nutsedge and suppression of seedling johnsongrass, apply **GCS Metola Plus 8EC** pre-plant incorporated at the maximum rate for the soil texture, whether applied alone or mixed with prometryn.

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

Post-emergence: Apply **GCS Metola Plus 8EC** broadcast over-the-top or directed to the soil surface, according to the rate and cotton height restrictions listed below by state. Application before weeds emerge or after clean cultivation to remove existing weeds is necessary as this product will not control emerged weeds. This product post-emergence may be applied over any previous registered herbicide treatment. In sprinkler-irrigated areas, sprinkler irrigate after application with one-half to 1 inch of water (one-half inch on coarse-textured soils to 1 inch on fine-textured soils). To incorporate this product in furrow-irrigated areas, apply this product, incorporate with a rolling cultivator or similar implement that provides uniform shallow incorporation (2 inches or less), and then irrigate. In non-irrigated areas, if at least one-half inch of rainfall does not occur within 10 days after application, cultivate with a rolling cultivator or similar implement that provides uniform shallow incorporation of this product.

VA, NC, SC, GA, FL, and AL	Apply GCS Metola Plus 8EC at 1.0 to 1.33 pts./A when cotton is 3 to 6 inches tall.
TN, AR, MS, MO, and LA	Apply GCS Metola Plus 8EC at 0.75 to 1.33 pts./A when cotton is 3 to 12 inches tall
TX, OK, NM, AZ, CA, and Clay Soils in AR	Apply GCS Metola Plus 8EC at 1.0 to 1.33 pts./A when cotton is 3 to 12 inches tall, but before August 1.

Multiple Applications: Where weed pressure is heavy, difficult-to-control species are expected, or reinfestation may occur, and a weed control program is used, multiple applications of this product are effective when used as part of the weed control program. Apply as a pre-plant incorporated or pre-emergence treatment and follow with an application post-emergence to cotton before weeds emerge or after clean cultivation to remove existing weeds since this product will not control emerged weeds. Cotton must be at least 3 inches tall at the post-emergence timing. Apply this product post-emergence over a previous pre-plant or pre-emergence application of this product as shown in the following table.

GCS Metola Plus 8EC Application to Cotton			
State	Pre-plant incorporated or Pre-emergence Pts./A		Post-emergence and Height Pts./A
MS, LA, TN, AR, MO	0.75 - 1.33 (Pre-emergence only)	+	0.75 - 1.33 to 3-12" cotton
TX, OK, NM	1.0 - 1.33	+	1.0 - 1.33 to 3-12" cotton before August 1
NC, VA	1.0 - 1.33 (Pre-emergence only)	+	1.0 - 1.33 to 3-12" cotton

In sprinkler-irrigated areas, sprinkler irrigate after application with one-half to 1 inch of water (one-half inch on coarse-textured soils to 1 inch on fine-textured soils) to incorporate this product. In furrow-irrigated areas, apply this product, incorporate with a rolling cultivator or similar implement that provides uniform shallow incorporation (2 inches or less), and then irrigate. In non-irrigated areas, if at least one-half inch of rainfall does not occur within 10 days after application, cultivate with a rolling cultivator or similar implement that provides uniform shallow incorporation of this product.

For best control of yellow nutsedge and suppression of seedling johnsongrass, apply this product pre-plant incorporated, pre-emergence, or post-emergence to cotton and pre-emergence to weeds at the maximum rate for the soil texture, whether applied alone or in combinations. Do not apply more than a total of 2 pts./A on coarse soils or 4 pts./A of this product on medium and fine soils during a growing season (do not make tandem applications of metolachlor and s-metolachlor herbicides). These treatments may be applied over previous application of herbicides.

Restrictions:

- Do not make broadcast applications of **GCS Metola Plus 8EC** to cotton planted in furrows more than 2 inches deep. Band applications may be made to cotton planted in furrows deeper than 2 inches, but band width must not exceed the width of the bottom of the furrow.
- Do not apply **GCS Metola Plus 8EC** on sand or loamy sand soils, or in areas where water is likely to “pond” over the bed.
- In furrow-planted cotton, do not apply this product post-emergence until after first “knifing” or cultivation to level soil surface.
- Do not apply over-the-top in fluid fertilizer or any other adjuvant, surfactant, oil, or other pesticide not specified in the cotton section of this label, or injury may occur.
- Do not apply on Taloka silt loam.
- Do not use in Gaines County, TX.
- Do not graze or feed forage or fodder from cotton to livestock.

GCS Metola Plus 8EC TANK MIX COMBINATIONS

TANK MIXTURE WITH PROMETRYN

GCS Metola Plus 8EC tank mixed with prometryn may be applied pre-plant incorporated or pre-emergence in water or fluid fertilizer. When fluid fertilizer is used as a carrier for this product, either alone or in combination with prometryn, mix only the amount that will be sprayed in one operation. Do not allow these to stand without agitation. Only water may be used as a carrier for post-emergence-directed application.

In addition to those weeds controlled by **GCS Metola Plus 8EC** alone, **GCS Metola Plus 8EC** + prometryn, applied pre-plant incorporated or pre-emergence, also controls the following weeds: junglerice, wild oats, annual morningglory, groundcherry, hairy nightshade, lambsquarters, malva, mustard, prickly sida (teaweed), purslane, ragweed, and shallow-germinating seedlings of cocklebur and coffeeweed. As a post-emergence-directed application, prometryn provides post-emergence control and residual control of weeds on its label, while this product provides residual control of weed species on its label. This product will not control emerged weeds.

Table 2. GCS Metola Plus 8EC + Prometryn -Cotton (NM, OK, TX)

USE AREAS	SOIL TEXTURE	BROADCAST RATES PER ACRE	
		GCS Metolachlor 8EC	PROMETRYN
ALL	Sand, loamy sand	DO NOT USE	
OK, and Blacklands and Gulf Coast and Rio Grande Valley of TX	Loams	0.85 - 1.33 pts.	Label rate
	Clays	1.33 pts.	Label rate
NM; High Plains, Rolling Plains, Edwards Plateau of TX; and Southwest TX	Sandy loam	0.85 - 1.0 pt.	Label rate
	Loams	0.85 - 1.33 pts.	Label rate
	Sandy clay loams	1.33 pts.	Label rate
	Other clay soils	1.33 pts.	Label rate

Post-emergence-Directed (AR, AZ, CA, LA, MO, MS, NM, OK, TN, and TX): **GCS Metola Plus 8EC** may be tank mixed with prometryn in water and applied post-emergence directed in cotton for control of emerged weeds listed on the prometryn label and residual pre-emergence control of weeds controlled by this product and prometryn, or application may be made after cultivation for residual pre-emergence control. These treatments may be applied over previous application of herbicides, including this product, provided the maximum label rate of any product is not exceeded (do not make tandem applications of metolachlor and s-metolachlor herbicides). Do not apply over-the-top of cotton or injury may occur.

Apply **GCS Metola Plus 8EC** + prometryn in a minimum of 20 gals. of spray volume per acre. Follow the directions, restrictions, and use precautions on the prometryn label when prometryn is applied as a post-emergence-directed application. Refer to the directions, restrictions, and use precautions for this product under the **Cotton — GCS Metola Plus 8EC APPLIED ALONE — Post-emergence section**. Refer to the prometryn label for further instructions and limitations.

Restrictions:

- Do not make broadcast applications of **GCS Metola Plus 8EC** + prometryn to cotton planted in furrows more than 2 inches deep. Band applications may be made to cotton planted in furrows deeper than 2 inches, but band width must not exceed the width of the bottom of the furrow.
- Do not apply on sand or loamy sand soils, or in areas where water is likely to “pond” over the bed.
- Do not apply in cut areas of newly leveled fields, or in areas of excess salt.
- Do not apply to glandless cotton varieties.
- Do not apply on Taloka silt loam.
- Do not use in Gaines County, TX.
- Do not graze or feed forage or fodder from cotton to livestock.

TANK MIXTURE WITH FLUOMETURON

GCS Metola Plus 8EC may be applied in tank mixture with fluometuron pre-emergence for control of those weeds controlled by **GCS Metola Plus 8EC** alone and those as listed on the fluometuron label. This combination will also control spotted spurge, hyssop spurge, nodding spurge, and prostrate spurge. Apply to the soil surface at planting or after planting, but before weeds or crops emerge, using the appropriate rates from the table below. The tank mixture may be applied post-emergence to cotton, but pre-emergence to weeds, or it may be applied post-emergence to both cotton and broadleaf weeds for control of weeds on the fluometuron label. Apply as a directed, semi-directed, or over-the-top spray. This product will not control emerged weeds, but will provide pre-emergence control of species on its label.

Mixing Instructions: Incompatibility may occur when tank mixing **GCS Metola Plus 8EC** and fluometuron. To help overcome this condition, fill the spray tank ¼ full with water or fluid fertilizer and start agitation, add the fluometuron and allow it to become dispersed. Add X-77 at 0.5% volume/volume final spray (4 pts./100 gals.), then add the **GCS Metola Plus 8EC** and finally the rest of the water or fluid fertilizer. Agitate during mixing and application to maintain a uniform suspension. Do not use fluid fertilizer as a carrier for post-emergence applications.

Table 3. GCS Metola Plus 8EC + Fluometuron - Cotton

SOIL TEXTURE	BROADCAST RATES PER ACRE		
	GCS Metola Plus 8EC		FLUOMETURON
	Area 1*	Area 2**	
Sand, loamy sand	DO NOT USE		
Sandy loam	0.75 - 1.0	0.85 - 1.0	Label rate
Loam, silt, silt loam	1.0 - 1.33	1.0 - 1.33	Label rate
Fine soil	1.0 - 1.33	1.33	Label rate

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

Post-emergence: This tank mixture may be applied post-emergence to cotton, but pre-emergence to weeds or post-emergence to both cotton and weeds for control of weeds on the fluometuron label. Apply as a directed, semi-directed, or over-the-top spray. This product will not control emerged weeds, but will provide pre-emergence control of species on its label. Apply when cotton is in the 3- to 12-inch stage. Where rate ranges are given for fluometuron, use the higher rate when applying post-emergence to weeds that are 2 inches or less. These treatments may be applied over previous application of herbicides, including this product, provided the maximum label rate of any product is not exceeded (do not make tandem applications of metolachlor and s-metolachlor herbicides). Refer to the fluometuron labels for further instructions, use precautions, and restrictions.

Restrictions:

- Do not feed treated forage or gin trash to livestock, or graze treated areas.
- Do not apply **GCS Metola Plus 8EC** + fluometuron on sand or loamy sand soils, or in areas where water is to “pond” over the bed.
- Do not make broadcast applications of **GCS Metola Plus 8EC** + fluometuron to cotton planted in furrows more than 2 inches deep. Band applications may be made to cotton planted in furrows deeper than 2 inches, but band width must not exceed the width of the bottom of the furrow.
- Do not use fluometuron following the use of a systemic insecticide at planting.
- Do not use in Gaines County, TX.
- Do not use on Taloka silt loam.

TANK MIXTURE OF GCS Metola Plus 8EC + FLUOMETURON WITH PARAQUAT OR GLYPHOSATE - Minimum-Tillage or No-Tillage Systems

In minimum-tillage or no-tillage systems where cotton is planted directly into a cover crop, stale seedbed, or previous crop residues, the contact herbicides paraquat or glyphosate may be added to a tank mix of either **GCS Metola Plus 8EC** or **GCS Metola Plus 8EC** + fluometuron. When used as directed, the paraquat portion of the tank mixture controls most emerged weeds and suppresses many perennial weeds. Glyphosate combinations will control emerged annual and perennial weeds when applied as directed on the glyphosate label. The **GCS Metola Plus 8EC** and **GCS Metola Plus 8EC** + fluometuron portion of the tank mixture provides pre-emergence control of the weeds listed on each label, respectively.

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

Application: Apply before, during, or after planting, but before the cotton emerges, at the rates specified below. Apply this product at 0.85 to 1 pt./A on sandy loams, medium-, and fine-textured soils. Use fluometuron at the label rates.

Do not apply this product + fluometuron + glyphosate in tank mixture because of compatibility problems.

Add paraquat or glyphosate at the following broadcast rates:

Paraquat: Use the label rates. Apply surfactant at 1 or 2 pts./100 gals. of spray mixture with 75% or greater or 50 to 74% nonionic active ingredient, respectively. This treatment will not control weeds taller than 6 inches.

Restriction:

- Do not apply combinations containing paraquat in suspension-type liquid fertilizers, as the activity of paraquat will be reduced.

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

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

Precaution:

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

Restriction:

- Do not use in Gaines County, TX.

TANK MIXTURE WITH MSMA, MSMA+PROMETRYN, OR MSMA + FLUOMETURON

GCS Metola Plus 8EC may be tank mixed with MSMA in water and applied post-emergence-directed for control of emerged weeds listed on the MSMA product label and residual pre-emergence control of weeds controlled by this product. The addition of prometryn or fluometuron will add control of weed species on their respective labels.

Post-emergence-Directed (AR, AZ, CA, LA, MS, NM, OK, TN, TX, and Bootheel of MO): Apply **GCS Metola Plus 8EC** + MSMA post-emergence-directed to 3 to 12-inch cotton according to the directions, restrictions, and use precautions on the MSMA product label, as well as the directions, restrictions, and use precautions for use of this product in the section for **Cotton — GCS Metola Plus 8EC APPLIED ALONE – Post-emergence**. Do not apply after first cotton bloom. These treatments may be applied over previous registered treatments, including this product, provided the maximum label rate of any product is not exceeded. Fluometuron or prometryn may be added to this product + MSMA tank mixture according to the respective label directions for application to 3- to 12-inch cotton. When these mixtures are used, follow the mixing instructions for **GCS Metola Plus 8EC** + prometryn or fluometuron and then add the MSMA product.

Do not use this product in tank mix with premixes of MSMA plus herbicides other than those registered for use in tank mixture with this product on cotton.

TANK MIXTURE OF GCS Metola Plus 8EC WITH GLYPHOSATE FOR USE ON GLYPHOSATE-RESISTANT COTTON

GCS Metola Plus 8EC may be tank mixed with glyphosate in water and applied post-emergence over-the-top or post-emergence-directed spray only to glyphosate-resistant cotton. This tank mixture will control emerged weeds listed on the glyphosate label and residual pre-emergence control of weeds listed on this label. See the **Cotton – GCS Metola Plus 8EC APPLIED ALONE– Post-emergence** section for proper rates and timing of **GCS Metola Plus 8EC**. Also follow the glyphosate label for appropriate use rate, method of application, and restrictions of application timing. For post-emergence over-the-top application, do not add any adjuvants, surfactants, fertilizers, or other pesticides to this tank mixture as unacceptable injury may occur.

Precautions:

- Post-emergence over-the-top applications of this tank mixture may cause temporary injury in the form of necrotic spotting to exposed cotton leaves, which will not affect normal plant development.

Restrictions:

- Do not apply this tank mixture post-emergence to any cotton variety unless it is designated glyphosate-resistant, and unless the glyphosate formulation being used is registered for post-emergence use in glyphosate-resistant cotton.
- Do not apply glyphosate post-emergence over-the-top to cotton past the growth stage limit specified on the label.
- Do not use on sand or loamy sand soils in Gaines County, TX.

TANK MIXTURE OF GCS Metola Plus 8EC WITH GLUFOSINATE-RESISTANT COTTON

GCS Metola Plus 8EC may be tank mixed with glufosinate in water and applied as a post-emergence, broadcast over-the-top spray or as a post-emergence-directed spray only to glufosinate-resistant cotton or other cotton varieties or cultivars warranted as resistant to glufosinate. This tank mixture will control emerged weeds listed on the glufosinate label and provide residual pre-emergence control of weeds listed on this label. See the **Cotton – GCS Metola Plus 8EC APPLIED ALONE – Post-emergence** section for proper rates and timing of **GCS Metola Plus 8EC**. Also follow the glufosinate label for appropriate use rate, method of application, and restrictions of application timing. For post-emergence over-the-top application, do not add any adjuvants, surfactants, fertilizers, or other pesticides to this tank mixture as unacceptable injury may occur.

Precautions:

- Post-emergence over-the-top applications of this tank mixture may cause temporary injury in the form of necrotic spotting to exposed cotton leaves, which will not affect normal plant development.

Restrictions:

- Do not apply this tank mixture post-emergence to any cotton variety unless it is designated glufosinate-resistant, and unless the glufosinate formulation being used is registered for post-emergence use in glufosinate-resistant cotton.
- Do not apply glufosinate post-emergence to cotton beyond early bloom stage.
- Do not use on sand or loamy sand soils in Gaines County, TX.

PEANUTS

GCS Metola Plus 8EC APPLIED ALONE

Apply **GCS Metola Plus 8EC**, either pre-plant incorporated, post-plant incorporated pre-emergence or lay-by using the appropriate rate specified below.

Pre-Plant Incorporated or Pre-Emergence: Follow instructions for use of **GCS Metola Plus 8EC** alone under **Application Procedures**.

Post-Plant Incorporated: Apply and shallowly incorporate **GCS Metola Plus 8EC** into the soil after planting, but before peanut germination. Incorporation depth and incorporating implements must be kept above the seed, or seed will be damaged.

Lay-by: Apply **GCS Metola Plus 8EC** to the soil immediately after the last normal cultivation. Apply this product alone, pre-plant incorporated, post-plant incorporated, or pre-emergence, or lay-by, at a broadcast rate of 1 to 1.33 pts./A in the Southeast* and 0.85 to 1.33 pts./A in NM, OK, and TX.

*In the Southeast, use 1.33 to 2 pts./A and apply pre-emergence for partial control of Florida beggarweed.

GCS Metola Plus 8EC alone may be applied as directed after any of the following pre-plant incorporated herbicides when used according to their label: trifluralin at the label rate; ethalfluralin at the label rate; imazethapyr at the label rate; or pendimethalin at the label rate.

Restrictions:

- Do not graze or feed peanut forage or fodder to livestock for 30 days following application.
- Do not apply within 90 days of harvest.

GCS Metola Plus 8EC TANK MIX COMBINATIONS

TANK MIXTURE OR SEQUENTIALLY WITH IMAZETHAPYR

The tank mixture or sequential treatment of **GCS Metola Plus 8EC** and Imazethapyr controls all weeds controlled by **GCS Metola Plus 8EC** alone and by Imazethapyr alone. Refer to the **GCS Metola Plus 8EC APPLIED ALONE** section for weeds controlled by **GCS Metola Plus 8EC** and to the Imazethapyr label for weeds controlled by Imazethapyr.

Refer to the respective labels for application methods, timing, rates, restrictions, and use precautions; and use in accordance with the most restrictive label. Do not exceed the label rate of either product. This product will not control emerged weeds.

TANK MIXTURE WITH ETHALFLURALIN

The tank mixture controls all weeds controlled by **GCS Metola Plus 8EC** alone and by ethalfluralin alone. Refer to the **GCS Metola Plus 8EC APPLIED ALONE** section for weeds controlled by **GCS Metola Plus 8EC** and to the ethalfluralin label for weeds controlled by ethalfluralin.

Apply **GCS Metola Plus 8EC** + ethalfluralin pre-plant incorporated, using the appropriate rate from the table below. Follow label recommended soil preparation and soil-incorporation procedures for ethalfluralin.

Table 4. GCS Metola Plus 8EC + ETHALFLURALIN - Peanuts

SOIL TEXTURE	BROADCAST RATES PER ACRE			
	SOUTHEAST		NM, OK, TX	
	GCS Metola Plus 8EC	ETHALFLURALIN	GCS Metola Plus 8EC	ETHALFLURALIN
Coarse	1.0 - 1.33 pts.	Label rate	0.85 - 1.33 pts.	Label rate
Medium		Label rate		Label rate
Fine		Label rate		Label rate

Follow all use directions, limitations, restrictions, precautions, and information regarding application to peanuts on the **GCS Metola Plus 8EC** and ethalfluralin labels.

TANK MIXTURE WITH PENDIMETHALIN

GCS Metola Plus 8EC + pendimethalin applied pre-plant incorporated controls all weeds controlled by **GCS Metola Plus 8EC** alone plus Texas panicum, field sandbur, johnsongrass from seed, lambsquarters, kochia, annual spurge, and other species on the pendimethalin label. Apply **GCS Metola Plus 8EC** + pendimethalin by ground or by aerial equipment within 14 days before planting. Incorporate into the top 1-2 inches of soil before planting and within 7 days of application, using a finishing disk or similar implement capable of providing uniform incorporation. If peanuts will be planted on beds, apply and incorporate after bed formation. Refer to the Incorporation instructions of the respective labels for additional directions.

Apply **GCS Metola Plus 8EC** + pendimethalin pre-plant incorporated, using the appropriate rates from the table below.

Table 5. GCS Metola Plus 8EC + PENDIMETHALIN - Peanuts

SOIL TEXTURE	BROADCAST RATES PER ACRE			
	NM, OK, TX		OTHER PEANUT GROWING STATES	
	GCS Metola Plus 8EC	PENDIMETHALIN	GCS Metola Plus 8EC	PENDIMETHALIN
Sand, loamy sand	0.85 pt.	Label rate	1.0 - 1.33 pts.	Label rate
Sandy loam	0.85 - 1.0 pt.	Label rate	1.0 - 1.33 pts.	Label rate
Fine soil	1.33 pts.	Label rate	1.33 pts.	Label rate

Follow all use directions, limitations, precautions, and information regarding application to peanuts on the **GCS Metola Plus 8EC** and pendimethalin labels.

TANK MIXTURE OR SEQUENTIALLY WITH BENTAZON/ACIFLUFEN

GCS Metola Plus 8EC + bentazon/aciflufen applied at ground cracking through 2 expanded tetrafoliate leaves or **GCS Metola Plus 8EC** applied according to the directions for **GCS Metola Plus 8EC APPLIED ALONE** and followed with an at-cracking through post-emergence treatment of bentazon/aciflufen as specified on its label will control species on the bentazon/aciflufen label and provide residual control of species listed in the **GCS Metola Plus 8EC APPLIED ALONE** section of this label. This product will not control emerged weeds. Refer to the **Peanuts – GCS Metola Plus 8EC APPLIED ALONE** section and to the bentazon/aciflufen label and follow all directions, use precautions, and restrictions for each product.

CROP GROUP 6 LEGUME VEGETABLES (SUCCULENT AND DRIED)

Crop Group 6 – Legume Vegetables (Succulent or Dried) Group – Beans, peas and lentils (includes grain lupin, sweet lupin, white lupin, and white sweet lupin, field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean, adzuki bean, asparagus bean, blackeyed pea, catjang, Chinese longbean, cowpea, Crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean, yardlong bean, Broad bean (fava bean), Chickpea (garbanzo bean), Guar, Jackbean, Lablab bean, Lentil, dwarf pea, edible-pod pea, English pea, field pea, garden pea, green pea, snow pea, sugar snap pea, Pigeon pea, and Sword bean.)

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

GCS Metola Plus 8EC APPLIED ALONE

Spring Application

Apply **GCS Metola Plus 8EC**, either pre-plant incorporated or pre-emergence, using the appropriate rate specified below.

Pre-Plant Incorporated or Pre-Emergence: Follow instructions for use of **GCS Metola Plus 8EC** alone under **Application Procedures**. On coarse soils with less than 3% organic matter, apply 1.0 -1.33 pts./A of **GCS Metola Plus 8EC** or 1.33 pts./A if organic matter is 3% or greater. On medium soils, apply 1.33-1.67 pts./A of **GCS Metola Plus 8EC**. On fine soils, apply 1.33 pts./A of **GCS Metola Plus 8EC** if organic matter content is less than 3%, or 1.67-2 pts./A if organic matter content is 3% or greater.

Restrictions:

- Do not cut for hay within 120 days following a **GCS Metola Plus 8EC** application.
- Do not use for forage within 60 days following a **GCS Metola Plus 8EC** application.
- Do not apply more than 3 pts./A of **GCS Metola Plus 8EC** during any one crop year.

GCS Metola Plus 8EC TANK MIX COMBINATIONS

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

This mixture controls all weeds controlled by **GCS Metola Plus 8EC** alone and by EPTC alone. Refer to the **GCS Metola Plus 8EC APPLIED ALONE** section of this label for weeds controlled by **GCS Metola Plus 8EC** alone and to the EPTC label for weeds controlled by EPTC.

Pre-Plant Incorporated: Follow instructions for use of **GCS Metola Plus 8EC** alone under **Application Procedures**.

Sequential: Apply EPTC alone pre-plant incorporated, as specified on that label. Follow with a pre-emergence application of **GCS Metola Plus 8EC**, at rates specified for **GCS Metola Plus 8EC** alone, during planting (behind the planter) or after planting, but before the weeds or crop emerge.

CALIFORNIA ONLY

Pre-Plant Incorporated: See the **SPECIAL APPLICATION PROCEDURES** Section of this label.

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

Apply the label rate of EPTC with **GCS Metola Plus 8EC** as specified. On coarse soils, apply 0.85 pt./A of **GCS Metola Plus 8EC** if organic matter content is less than 3%, or 1.0 pt./A if organic matter content is 3% or greater. On medium soils, apply 1.0 pt./A of **GCS Metola Plus 8EC** if organic matter content is less than 3%, or 1.33 pts./A if organic matter content is 3% or greater. On fine soils, apply 1.33 pts./A of **GCS Metola Plus 8EC** if organic matter is less than 3%, or 1.33-1.67 pts./A if organic matter is 3% or greater. Refer to the EPTC label for rate instructions depending on geographical area, and for species and varietal restrictions.

Restrictions:

- Do not exceed the label rate of EPTC on small white beans or green beans grown on coarse-textured soils.
- Do not cut for hay within 120 days following a **GCS Metola Plus 8EC** application.-

TANK MIXTURE WITH TRIFLURALIN - Beans (Dry-Kidney, Navy, Pinto, etc.; Lima; and Snap)

GCS Metola Plus 8EC + trifluralin tank mix applied pre-plant incorporated controls those weeds listed under **GCS Metola Plus 8EC APPLIED ALONE** and those weeds listed for trifluralin alone on the trifluralin label. **GCS Metola Plus 8EC** + trifluralin may be applied by ground or by aerial equipment and incorporated up to 14 days prior to planting. Follow the label procedures on this label and on the respective trifluralin label using equipment that provides uniform 2-inch incorporation.

Apply **GCS Metola Plus 8EC** + trifluralin tank mix using the appropriate **GCS Metola Plus 8EC** rate specified for **GCS Metola Plus 8EC** alone, and the trifluralin rate from the Dry Beans, and the Lima and Snap Beans sections of the respective trifluralin label. Choose the product rate for the specific soil texture/organic matter classification and weed species expected.

Follow all restrictions and precautions on the respective trifluralin label and in the **Crop Group 6 Legume Vegetables (succulent and dried)-GCS Metola Plus 8EC APPLIED ALONE** section of this label.

POTATOES

GCS Metola Plus 8EC APPLIED ALONE

Apply **GCS Metola Plus 8EC**, either incorporated or pre-emergence, according to directions specified below for control of weeds listed under the **Product Information** section. Within a rate range, use the lower rate on soils relatively coarse-textured or low in organic matter; use the higher rate on soils relatively fine-textured or high in organic matter. Effectiveness will be reduced if later cultural practices expose untreated soil.

Incorporated: Apply **GCS Metola Plus 8EC** at 1.0-2.0 pts./A to the soil and incorporate into the top 3 inches before planting, using a finishing disk, harrow, rolling cultivator, or similar implement. Planting and later cultural practices should not bring untreated soil to the surface. Post-plant incorporated application may be made any time after planting to drag-off, but before potato emergence. Use an implement that evenly distributes **GCS Metola Plus 8EC** in the top 2 inches of soil. Do not damage potato seed pieces or sprouts with incorporation equipment.

Pre-Emergence: Apply **GCS Metola Plus 8EC** at 1.0-2.0 pts./A, either after planting as a pre-emergence, delayed pre-emergence, after drag-off or hilling treatment, but before weeds emerge. Up to 2.75 pts./A of **GCS Metola Plus 8EC** alone may be used where soil organic matter is between 6% and 20%.

After Hilling/Lay-By: Apply 1.67 pts./A of **GCS Metola Plus 8EC** after hilling/at lay-by to control species sensitive to this product for remainder of the growing season. This application will not control emerged weeds. It may be applied over a previous application of this product, but do not apply more than 3.7 pts./A of this product in a single crop season.

Precaution:

- Do not use on muck or peat soils. If cool, wet soil conditions occur after application, **GCS Metola Plus 8EC** may delay maturity and/or reduce yield of Superior and other early maturing potato varieties.

Restrictions:

- Do not use on sweet potatoes or yams.
- Do not apply both as a pre-emergence and an incorporated treatment.
- Potatoes treated with **GCS Metola Plus 8EC** must not be harvested within 60 days after the at-planting to drag-off application.
- Do not use in Kern County, CA.

GCS Metola Plus 8EC TANK MIX COMBINATIONS

TANK MIXTURE WITH METRIBUZIN

In addition to those weeds controlled by **GCS Metola Plus 8EC** alone, **GCS Metola Plus 8EC** applied in tank mix combination with, or sequentially with, any of the registered metribuzin formulations, also controls the following broadleaf weeds: cocklebur*, hairy nightshade*, hemp sesbania, jimsonweed*, lambsquarters, prickly sida, ragweed, smartweed, velvetleaf, Venice mallow, and wild mustard.

*Partially controlled.

GCS Metola Plus 8EC at 1.0-2.0 pts./A plus the label metribuzin use rate may be used pre-emergence. Apply 1.0-1.33 pts./A of **GCS Metola Plus 8EC** on coarse soils and 1.33-2.0 pts./A on other soil textures. Within this rate range, use the lower rate on soils relatively coarse-textured or low in organic matter; use the higher rate on soils relatively fine-textured or high in organic matter. Effectiveness will be reduced if later cultural practices expose untreated soil. **GCS Metola Plus 8EC** will not control emerged weeds.

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

Restrictions:

- DO NOT use this product + metribuzin on potatoes in Kern County, CA.
- Make post-emergence applications to potatoes as a directed or semi-directed spray.
- Do not apply to sweet potatoes or yams.
- DO NOT use this product + metribuzin on potatoes in Kern County, CA.
- Do not use this tank mixture on muck or peat soils.
- Potatoes treated with **GCS Metola Plus 8EC** in tank mixture with metribuzin cannot be harvested within 60 days after application.

GCS Metola Plus 8EC + LINURON TANK MIXTURE (East of Rocky Mountains)

GCS Metola Plus 8EC may be applied in a tank-mix combination with any of the registered linuron formulations as a pre-emergence broadcast application to potatoes. Apply to the soil surface after planting and before emergence of the crop or after final drag-off according to the rates specified in the table below.

Table 6. GCS Metola Plus 8EC + Linuron-Potatoes (East of Rocky Mountains)

SOIL TEXTURE	BROADCAST RATES PER ACRE			
	1% TO LESS THAN 3% ORGANIC MATTER		3-5% ORGANIC MATTER	
	GCS Metola Plus 8EC	LINURON	GCS Metola Plus 8EC	LINURON
Coarse Sandy loam	1.0 pt.	Label rate	1.33 pts.	Label rate
Medium Loam, silt loam, silt	1.33 pts.	Label rate	1.67 - 2.0 pts.	Label rate

Restrictions:

- Do not use on sands or loamy sands.
- Do not incorporate or spray over the top of emerged potatoes.

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

TANK MIXTURE WITH PENDIMETHALIN

In addition to the weeds controlled by **GCS Metola Plus 8EC** alone, this tank mixture with pendimethalin controls such problem species as kochia, lambsquarters, purslane, annual spurge, stinging nettle, and others specified on the pendimethalin APPLIED ALONE label. Apply **GCS Metola Plus 8EC** + pendimethalin pre-emergence or pre-emergence incorporated, according to the specific directions on the pendimethalin label, using the rates in the table below.

Table 7. GCS Metola Plus 8EC + PENDIMETHALIN - Potatoes

SOIL TEXTURE	BROADCAST RATES PER ACRE			
	LESS THAN 3% ORGANIC MATTER		MORE THAN 3% ORGANIC MATTER	
	GCS Metola Plus 8EC	PENDIMETHALIN	GCS Metola Plus 8EC	PENDIMETHALIN
Coarse	1.0 - 1.33 pts.	Label rate	1.0 - 1.33 pts.	Label rate
Medium	1.33 pts.	Label rate	1.33 - 1.67 pts.	Label rate
Fine	1.33 - 1.67 pts.	Label rate	1.67 - 2.0 pts.	Label rate

Refer to the **GCS Metola Plus 8EC** and pendimethalin labels and observe all directions, timings, limitations, restrictions, precautions, and restrictions concerning the use of these products on potatoes and follow the most restrictive.

TANK MIXTURE WITH PENDIMETHALIN + EPTC

In addition to the weeds controlled by **GCS Metola Plus 8EC** alone, this tank mixture will control those species on the pendimethalin and EPTC labels. Refer to the **GCS Metola Plus 8EC** + pendimethalin labels for rates of those products and add EPTC 7E at 3.5-7.0 pts./A, depending on geographical area. Refer to the respective **GCS Metola Plus 8EC**, pendimethalin and EPTC labels and observe all directions, limitations, precautions, and restrictions concerning the use of these products on potatoes and follow the most restrictive.

SAFFLOWER

GCS Metola Plus 8EC APPLIED ALONE

Pre-Plant Incorporated or Pre-Emergence: Follow instructions for use of **GCS Metola Plus 8EC** alone under **Application Procedures**.

On coarse soils, apply 1.0-1.33 pts./A of **GCS Metola Plus 8EC** if organic matter content is less than 3%, or 1.33 pts./A if organic matter is 3% or greater. On medium soils, apply 1.33-1.67 pts./A of **GCS Metola Plus 8EC**. On fine soils, apply 1.33-1.67 pts./A of **GCS Metola Plus 8EC** if organic matter content is less than 3%, or 1.67-2.0 pts./A if organic matter content is 3% or greater.

SORGHUM

Use Only on Sorghum (Grain or Forage) Seed Treated with Concep®

GCS Metola Plus 8EC APPLIED ALONE

Apply **GCS Metola Plus 8EC**, either pre-plant surface, pre-plant incorporated, or pre-emergence, using the appropriate rate specified below. Apply **GCS Metola Plus 8EC** alone only when the sorghum seed has been properly treated by the seed company with Concep®.

Pre-Plant Surface-Applied: Refer to instructions for use of **GCS Metola Plus 8EC** under **Application Procedures**. For minimum- tillage or no-tillage systems only, **GCS Metola Plus 8EC** may be applied up to 45 days before planting in CO, IA, IL, KS, MO, NE, and SD. Use only split applications for treatments made 30-45 days prior to planting, with 2/3 of the broadcast rate applied initially and the remaining 1/3 at planting. Apply 1.50 pts./A of **GCS Metola Plus 8EC** on medium soils or 1.67 pts./A on fine soils. Treatments less than 30 days prior to planting may be made either as a split or single application. Apply 1.33 pts./A of **GCS Metola Plus 8EC** on coarse soils not more than 2 weeks prior to planting. Under dry conditions, irrigate after application to move **GCS Metola Plus 8EC** into the soil.

Pre-Plant Incorporated or Pre-Emergence: Refer to instructions for use of **GCS Metola Plus 8EC** under **Application Procedures**.

Broadcast 1.0-1.33 pts./A of **GCS Metola Plus 8EC** on coarse soils, 1.33-1.50 pts./A on medium soils, or 1.33-1.67 pts./A on fine soils.

Precautions:

- If sorghum seed is not properly treated with Concep®, **GCS Metola Plus 8EC** will severely injure the crop.
- Under high soil moisture conditions prior to sorghum emergence, injury may occur following the use of **GCS Metola Plus 8EC**. The crop will normally outgrow this effect.

Restrictions:

- Except for the split pre-plant surface treatment, do not make more than one application per year.
- Do not use **GCS Metola Plus 8EC** on sorghum grown under dry mulch tillage or injury may occur.

GCS Metola Plus 8EC TANK MIX COMBINATIONS

GCS Metola Plus 8EC tank mixtures with atrazine may be applied in water or fluid fertilizer. Apply **GCS Metola Plus 8EC** in tank mixtures only when the sorghum seed has been properly treated by the seed company with Concep®.

IMPORTANT: FOR TANK MIXTURES WITH ATRAZINE

If applying **GCS Metola Plus 8EC** in tank mixture with atrazine, all the restrictions and rate limitations on the atrazine label must be followed if more restrictive/protective than those on this label. In addition, if atrazine is/must be applied at rates lower than those listed on this label, broadleaf weed control may be affected. Refer to the atrazine label for weeds controlled at the reduced rates.

Precautions:

- If sorghum seed is not properly treated with Concep®, **GCS Metola Plus 8EC** + atrazine may severely injure the crop.
- Under high soil moisture conditions prior to sorghum emergence, injury may occur following the use of **GCS Metola Plus 8EC** + atrazine. The crop will normally outgrow this effect.
- Applications of **GCS Metola Plus 8EC** + atrazine on highly alkaline soils or on eroded areas where calcareous subsoils are exposed may cause sorghum injury.

Restrictions:

- Except for the split pre-plant surface treatment, do not make more than one application per year.
- Do not use **GCS Metola Plus 8EC** + atrazine on sorghum grown under dry mulch tillage, or injury may occur.

TANK MIXTURE WITH ATRAZINE

In addition to the weeds controlled by **GCS Metola Plus 8EC** alone, **GCS Metola Plus 8EC** + atrazine also controls the following broadleaf weeds when applied either pre-plant surface, pre-plant incorporated, or pre-emergence: cocklebur, common purslane, hairy nightshade, lambsquarters, morningglory, ragweed, smartweed, and velvetleaf.

Pre-Plant Surface-Applied: Refer to instructions for use of **GCS Metola Plus 8EC** under **Application Procedures**. For minimum-tillage or no-tillage systems only, **GCS Metola Plus 8EC** + atrazine may be applied up to 45 days prior to planting in IA, IL, eastern KS, MO, NE, and SD. Use only split applications for treatments made 30-45 days prior to planting, with 2/3 of the broadcast rate applied initially and the remaining 1/3 at planting. Apply 1.5 pts./A of **GCS Metola Plus 8EC** + the label rate of atrazine on medium soils with 1.5% organic matter or greater. Apply 1.5 pts./A of **GCS Metola Plus 8EC** + the label rate of atrazine on fine soils with less than 1.5% organic matter, or apply 1.67 pts./A of **GCS Metola Plus 8EC** + the label rate of atrazine on fine soils with 1.5% organic matter or greater. Treatments less than 30 days prior to planting may be made either as a split or single application. Under dry conditions, irrigate after application to move **GCS Metola Plus 8EC** + atrazine into the soil.

Restrictions:

- Do not use on coarse soils.
- Do not use on medium soils with less than 1.5% organic matter.

Pre-Plant Incorporated or Pre-Emergence: Refer to instructions for use of **GCS Metola Plus 8EC** under **Application Procedures**. On medium soils with 1.5% organic matter or greater, apply 1.0 pt./A of **GCS Metola Plus 8EC** + the label rate of atrazine. On fine soils with less than 1.5% organic matter, apply 1.0 pt./A of **GCS Metola Plus 8EC** + the label rate of atrazine; on fine soils with 1.5% organic matter or greater, apply 1.2-1.33 pts./A of **GCS Metola Plus 8EC** + the label rate of atrazine.

Restrictions:

- Do not use on medium soils with less than 1.5% organic matter.
- Do not use on coarse soils.
- Do not use in NM, OK, or TX, except in northeast OK and the TX Gulf Coast and Blacklands areas.
- DO NOT apply pre-plant incorporated in AZ or the Imperial Valley of CA.

MINIMUM TILLAGE OR NO-TILLAGE SYSTEMS

TANK MIXTURE OF GCS METOLA PLUS 8EC OR GCS METOLA PLUS 8EC + ATRAZINE WITH PARAQUAT, GLYPHOSATE/2,4-D, OR GLYPHOSATE

In minimum-tillage or no-tillage systems where sorghum (seed treated with Concep®) is planted directly into a cover crop, stale seedbed, established sod, or previous crop residues, the contact herbicides paraquat, glyphosate/2,4-D or glyphosate may be tank mixed with **GCS Metola Plus 8EC** or **GCS Metola Plus 8EC** + atrazine. Mix with paraquat for control of most emerged annual weeds and suppression of perennial weeds; or with glyphosate/2, 4-D for suppression of emerged field bindweed and control or suppression of annual weeds; or with glyphosate for control of most emerged annual and perennial weeds. The **GCS Metola Plus 8EC** or **GCS Metola Plus 8EC + atrazine** portion of the tank mixture provides pre-emergence control of the weeds listed on this label under the respective sections.

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

Application: Apply before, during, or after planting, but before sorghum emerges, at the appropriate rates listed under **Grain or Forage Sorghum - GCS Metola Plus 8EC APPLIED ALONE** or - **GCS Metola Plus 8EC TANK MIXES - GCS Metola Plus 8EC + Atrazine**, respectively. Add paraquat, glyphosate/2,4-D, or glyphosate at the following broadcast rates:

- **Paraquat:** Use the label rate. Apply surfactant at 1 or 2 pts./100 gals of spray mixture with 75% or greater or 50-74% nonionic active ingredient, respectively. This treatment will not control weeds taller than 6 inches.
- **Glyphosate/2,4-D:** Use the label rate depending on weed species and size. See the glyphosate/2,4-D label for weeds controlled, rates for specific weeds, and other information concerning use.
- **Glyphosate:** See the glyphosate label for weeds controlled, rates, and other use directions. Apply in a minimum of 20 gals. of water per acre with conventional spray equipment.

SOYBEANS

GCS Metola Plus 8EC APPLIED ALONE

Apply **GCS Metola Plus 8EC**, either pre-plant surface-applied, pre-plant incorporated, pre-emergence, or post-emergence using the appropriate rate specified below.

Pre-plant Surface-Applied, Pre-plant Incorporated, Pre-emergence or Post-emergence: Follow instructions for use of **GCS Metola Plus 8EC** alone under **Application Procedures**.

Pre-Plant Surface-Applied Fall Application:

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

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

Restrictions:

- If a spring application is made, the total rate of the fall plus spring applications must not exceed the maximum total rate for soybeans.
- Do not apply to frozen ground.

Pre-Plant Surface – Spring Application

Use on medium and fine soils with minimum-tillage or no-tillage systems in CO, CT, DE, IA, IL, IN, KS, KY, MA, MD, ME, MI, MN, MO, MT, ND, NE, NH, NY, OH, PA, RI, SD, TN, VA, VT, WI, WV, and WY. Apply 2/3 the label rate of **GCS Metola Plus 8EC** (1.67 pts./A on medium soils and 2.0 pts./A on fine soils) as a split treatment 30-45 days prior to planting and the remainder at planting. Applications made less than 30 days before planting may be as either a split or single treatment. Apply 1.33 pts./A on coarse soils not more than 2 weeks prior to planting.

Pre-Plant Incorporated or Pre-Emergence: On coarse soils, apply 1.0-1.33 pts./A of **GCS Metola Plus 8EC** if organic matter content is less than 3%, or 1.33 pts./A if organic matter content is 3% or greater. On medium soils, apply 1.33-1.67 pts./A of **GCS Metola Plus 8EC** On fine soils, apply 1.33-1.67 pts./A of **GCS Metola Plus 8EC** if organic matter content is less than 3%, or 1.67- 2.0 pts./A if organic matter content is 3% or greater.

On soybeans, **GCS Metola Plus 8EC** may be used up to 2.75 pts./A as a pre-plant surface-applied, pre-plant incorporated, or pre-emergence treatment on soils having an organic matter content between 6% and 20%.

Restrictions (Pre-plant surface applied, pre-plant incorporated, pre-emergence):

- On soybeans, use up to 2.5 pints / acre of **GCS Metola Plus 8EC** pre-plant incorporated or pre-emergence treatment on soils having an organic matter content between 6% and 20%.
- The total **GCS Metola Plus 8EC** rate applied to soybeans during any one crop must not exceed 2.75 pts./A.
- If a pre-plant surface, pre-plant incorporated or pre-emergence application of metolachlor products has already been applied, a post-emergence application of this product cannot be used.
- Do not graze or feed treated soybean forage, hay, or straw to livestock 30 days following treatment.
- If a spring application is made, the total rate of the fall plus spring applications must not exceed the maximum total rate on soybeans.
- DO NOT apply to frozen ground.

Post-Emergence**From emergence up through the fifth trifoliolate leaf stage:**

Apply 1.0-1.33 pts./A as a post-emergence treatment to soybeans from emergence up through the **fifth trifoliolate leaf stage**. **GCS Metola Plus 8EC** will not control emerged weeds so it must be applied to a weed-free surface or in a tank mixture with products that provide post-emergence control of weeds present at the time of application.

Restrictions (Post-emergence):

- Do not apply a post-emergence application of **GCS Metola Plus 8EC** if a pre-plant surface, pre-plant incorporated, or pre-emergence application of metolachlor products have already been applied.
- When **GCS Metola Plus 8EC** is applied post-emergence to soybeans do not apply more than 1.33 pts./A post-emergence.
- Do not graze or feed treated forage or hay from soybeans to livestock following a post-emergence application of **GCS Metola Plus 8EC**.
- Not for use in California.

GCS Metola Plus 8EC TANK MIX COMBINATIONS**(Pre-Plant/Pre-Emergence)**

Water or fluid fertilizer may be used as carrier for **GCS Metola Plus 8EC** in combination with metribuzin, linuron, metribuzin/chlorimuron-ethyl, imazethapyr, imazaquin, ethalfluralin, or clomazone.

Restrictions:

- For all of the following combinations, do not apply more than 2.5 pts./A of **GCS Metola Plus 8EC** on soils having an organic matter content between 6% and 20%.
- The total **GCS Metola Plus 8EC** rate applied to soybeans during any one crop year must not exceed 2.75 pts./A.
- DO NOT apply to frozen ground.

TANK MIXTURE WITH METRIBUZIN

In addition to those weeds controlled by **GCS Metola Plus 8EC** alone, **GCS Metola Plus 8EC** + metribuzin, when applied as directed, also controls the following broadleaf weeds: cocklebur*, hairy nightshade, hemp sesbania, jimsonweed*, lambsquarters, prickly sida, ragweed, smartweed, velvetleaf, Venice mallow, and wild mustard.

*Partially controlled.

Pre-plant incorporated or Pre-emergence: Follow instructions for use of **GCS Metola Plus 8EC** alone under Application Procedures.

Sequential: Apply **GCS Metola Plus 8EC** alone Pre-plant Incorporated, as specified in the table below. Follow with a pre-emergence application of metribuzin during planting (behind the planter) or after planting, but before weeds or soybeans emerge.

Refer to the metribuzin labels for planting details and soybean variety restrictions.

Table 8. GCS Metola Plus 8EC + METRIBUZIN-Soybeans

SOIL TEXTURE*	BROADCAST RATES PER ACRE			
	0.5% to Less than 3% Organic Matter		3% Organic Matter or Greater	
	GCS Metola Plus 8EC	METRIBUZIN	GCS Metola Plus 8EC	METRIBUZIN
Coarse	0.85 - 1.0 pt.	Label rate	1.0 pt.	Label rate
Medium	1.0 - 1.33 pts.	Label rate	1.33 pts.	Label rate
Fine	1.33 pts.	Label rate	1.33 - 1.67 pts.	Label rate
Mississippi Delta Only Silty clay, clay	1.33 pts.	Label rate	1.33 - 1.67 pts.	Label rate
DO NOT USE on Muck or Peat (soils with more than 20% organic matter)				
*On all sand and on loamy sand with less than 2% organic matter, do not use this tank mixture pre-emergence or the sequential treatment. Do not use the tank mixture pre-plant incorporated on any sand, loamy sand, or sandy loam, or crop injury may occur.				

Precaution:

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

Restriction:

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

TANK MIXTURE WITH LINURON

In addition to those weeds controlled by **GCS Metola Plus 8EC** alone, **GCS Metola Plus 8EC** + linuron, applied pre-emergence, also controls the following broadleaf weeds: cocklebur*, jimsonweed*, lambsquarters, morningglory*, prickly sida, ragweed, smartweed, velvetleaf*, Venice mallow, and wild mustard.

*Partially controlled.

Pre-Emergence: Apply during planting (behind planter) or after planting, but before weeds or soybeans emerge. Refer to the linuron label for planting details. Apply the appropriate rates from the table below.

Restriction:

- Do not use on soil with less than 0.5% organic matter or crop injury may occur.

Table 9. GCS Metola Plus 8EC + LINURON - Soybeans

SOIL TEXTURE*	BROADCAST RATES PER ACRE			
	0.5% to Less than 3% Organic Matter		3% Organic Matter or Greater	
	GCS Metola Plus 8EC	LINURON	GCS Metola Plus 8EC	LINURON
Coarse**	0.85 pt.	Label rate	1.0 pt.	Label rate
Medium	1.0 pt.	Label rate	1.33 pts.	Label rate
Fine	1.33 pts.	Label rate	1.33 - 1.67 pts.	Label rate
DO NOT USE on Muck or Peat (soils with more than 20% organic matter)				
* Restriction: Do not use on sand, gravelly soils, or exposed subsoils.				
** Restriction: Do not use on loamy sand, except in the northeastern U.S. on loamy sand with over 1% organic matter.				

TANK MIXTURE WITH TRIFLURALIN

GCS Metola Plus 8EC + trifluralin tank mix applied pre-plant incorporated controls those weeds listed under the **GCS Metola Plus 8EC APPLIED ALONE** section and those weeds listed on the trifluralin label. **GCS Metola Plus 8EC** + trifluralin may be applied by ground or by aerial equipment and incorporated up to 14 days before planting. Follow the procedures on the trifluralin and **GCS Metola Plus 8EC** labels, using equipment that provides uniform 2-inch incorporation.

Apply **GCS Metola Plus 8EC** + trifluralin tank mix, using the appropriate rate from the **Soybeans - GCS Metola Plus 8EC APPLIED ALONE** section of this label and the appropriate section of the trifluralin label for the specific soil texture/organic matter classification and weed species expected.

To control dinitroaniline (DNA) resistant goosegrass* and other species on the respective labels where the soil organic matter is 3% or less, apply the rate listed in the table below.

Table 10. GCS Metola Plus 8EC + TRIFLURALIN-Organic Matter Content Less Than 3%

SOIL TEXTURE	BROADCAST RATE PER ACRE		
	GCS Metola Plus 8EC	TRIFLURALIN	
	Organic Less Than 3%	ORGANIC MATTER	
		Less Than 2%	2 - 3 %
Coarse*	0.85 - 1.0 pt.	Lower label rate	Lower label rate
Medium	1.0 pt.	Lower label rate	Lower label rate
Fine	1.33 pts.	Lower label rate	Lower label rate

*Where a range of rates is given for **GCS Metola Plus 8EC**, use the minimum rate where DNA-resistant goosegrass is the predominant species.

Follow all restrictions and precautions on the respective trifluralin label and in the **Soybeans-GCS Metola Plus 8EC** section of this label.

TANK MIXTURE WITH IMAZAQUIN

This tank mixture controls all weeds controlled by **GCS Metola Plus 8EC** alone and by Imazaquin alone. Refer to the **GCS Metola Plus 8EC APPLIED ALONE** section for weeds controlled by **GCS Metola Plus 8EC** and to the Imazaquin label for weeds controlled by Imazaquin. Refer to the Imazaquin label for geographical locations where this tank mixture may be applied.

Apply **GCS Metola Plus 8EC** + Imazaquin pre-plant incorporated or pre-emergence, using rates in the table below. Follow use directions under **Application Instructions** on the Imazaquin label. For pre-plant incorporated applications, apply and incorporate within 30 days before planting. Observe all other restrictions, precautions, and limitations on the Imazaquin labels.

Table 11. GCS Metola Plus 8EC + IMAZAQUIN - Soybeans

SOIL TEXTURE*	BROADCAST RATES PER ACRE			
	Less Than 3% Organic Matter		3% Or More Organic Matter	
	GCS Metola Plus 8EC	IMAZAQUIN	GCS Metola Plus 8EC	IMAZAQUIN
Coarse	0.85 pt.	Label Rate	1.0 pt.	Label Rate
Medium	1.0 pts.	Label Rate	1.33 pts.	Label Rate
Fine	1.33 pts.	Label Rate	1.33 - 1.67* pts.	Label Rate

DO NOT USE on Muck or Peat (soils with more than 20% organic matter)

*Use the higher rate of **GCS Metola Plus 8EC** if heavy weed infestations are expected.

Restrictions:

- Do not apply within 90 days of harvest.
- Do not graze or feed treated soybean forage, hay, or straw to livestock.

TANK MIXTURE WITH LINURON/CHLORIMURON-ETHYL

This tank mixture controls all weeds controlled by **GCS Metola Plus 8EC** alone and by linuron/chlorimuron-ethyl alone. Refer to the **GCS Metola Plus 8EC APPLIED ALONE** section for weeds controlled by **GCS Metola Plus 8EC** and to the linuron/chlorimuron-ethyl label for weeds controlled.

Apply **GCS Metola Plus 8EC** + linuron/chlorimuron-ethyl pre-emergence after planting, but before soybeans emerge, using rates in the table below.

Follow all use directions, limitations, precautions, information regarding application to soybeans, and rotational restrictions on the **GCS Metola Plus 8EC** and linuron/chlorimuron-ethyl labels.

Table 12. GCS Metola Plus 8EC + LINURON/CHLORIMURON-ETHYL - Soybeans

SOIL TEXTURE	BROADCAST RATES PER ACRE	
	0.5 - 3% Organic Matter	
	GCS Metola Plus 8EC	Linuron/Chlorimuron-ethyl
Coarse	0.85 pt.	Label Rate
Medium	1.0 pt.	Label Rate
Fine	1.33 pts.	Label Rate

Restriction:

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

TANK MIXTURE WITH METRIBUZIN/CHLORIMURON-ETHYL

This tank mixture controls all weeds controlled by **GCS Metola Plus 8EC** alone and by metribuzin/chlorimuron-ethyl alone. Refer to the **GCS Metola Plus 8EC APPLIED ALONE** section for weeds controlled by **GCS Metola Plus 8EC** and to the metribuzin/chlorimuron-ethyl labels for weeds controlled.

Apply pre-plant incorporated or **Pre-emergence**, using the appropriate rates from the table below.

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

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

Follow all use directions, varietal restrictions, limitations, precautions, information regarding application to soybeans, and rotational restrictions on the **GCS Metola Plus 8EC** and metribuzin/chlorimuron-ethyl labels.

Table 13. GCS Metola Plus 8EC + METRIBUZIN/CHLORIMURON-ETHYL - Soybeans

SOIL TEXTURE	BROADCAST RATES PER ACRE			
	0.5 to Less Than 3% Organic Matter		3-5% Organic Matter	
	GCS Metola Plus 8EC	METRIBUZIN/ CHLORIMURON-ETHYL	GCS Metola Plus 8EC	METRIBUZIN/ CHLORIMURON-ETHYL
Coarse*	0.85 pt.	Label rate	1.0 pt.	Label rate
Medium*	1.0 pt.	Label rate	1.33 pts.	Label rate
Fine*	1.33 pts.	Label rate	1.33 - 1.67 pts.	Label rate

*Refer to the metribuzin / chlorimuron-ethyl label for appropriate rate according to geographical location, soil and organic matter classification, and pH limitations.

Restriction:

- Do not apply to sand, or to any soil with less than 0.5% organic matter, or to any soil with pH greater than 7.0, except as noted in the directions for use of the metribuzin/chlorimuron-ethyl labels.

TANK MIXTURE WITH CLOMAZONE

This tank mixture controls all weeds controlled by **GCS Metola Plus 8EC** alone and by clomazone alone. Refer to the **GCS Metola Plus 8EC APPLIED ALONE** section for weeds controlled by **GCS Metola Plus 8EC** and to the clomazone label for weeds controlled by clomazone.

Apply **GCS Metola Plus 8EC** + clomazone pre-plant incorporated, using rates in the **GCS Metola Plus 8EC + Clomazone- Soybeans** table. Follow all clomazone application instructions as to incorporation interval, geographical location, equipment operation, soil moisture conditions, etc.

Before making applications, read and strictly follow all use directions, limitations, precautions, information regarding application to soybeans, and rotational restrictions on the **GCS Metola Plus 8EC** and clomazone labels.

Table 14. GCS Metola Plus 8EC + CLOMAZONE - Soybeans

SOIL TEXTURE	BROADCAST RATES PER ACRE			
	Less Than-3% Organic Matter		Greater Than 3% Organic Matter	
	GCS Metola Plus 8EC	CLOMAZONE	GCS Metola Plus 8EC	CLOMAZONE
Coarse	0.85 pt.	Label rate	1.0 pt.	Label rate
Medium	1.0 pt.	Label rate	1.33 pt.	Label rate
Fine	1.33 pts.	Label rate	1.33 - 1.67 pts.	Label rate

TANK MIXTURE WITH ETHALFLURALIN

This tank mixture controls all weeds controlled by **GCS Metola Plus 8EC** alone and by ethalfluralin alone. Refer to the **GCS Metola Plus 8EC APPLIED ALONE** section for weeds controlled by **GCS Metola Plus 8EC** and to the ethalfluralin label for weeds controlled by ethalfluralin.

Apply **GCS Metola Plus 8EC** and ethalfluralin pre-plant incorporated, using the appropriate rates from the table below.

Pre-Plant Incorporated: Follow label recommended soil preparation and soil incorporation procedures for ethalfluralin.

Sequential: Apply ethalfluralin alone pre-plant incorporated as specified on the ethalfluralin label. Follow with a pre-emergence application of **GCS Metola Plus 8EC** during planting (behind the planter) or after planting, but before weeds or soybeans emerge.

Table 15. GCS Metola Plus 8EC + ETHALFLURALIN -Soybeans

SOIL TEXTURE	BROADCAST RATES PER ACRE			
	Less Than 3% Organic Matter		3% or More Organic Matter	
	GCS Metola Plus 8EC	ETHALFLURALIN	GCS Metola Plus 8EC	ETHALFLURALIN
Coarse	1.0 - 1.33 pts.	Label rate	1.33 pts.	Label rate
Medium	1.33 - 1.67 pts.	Label rate	1.33 - 1.67 pts.	Label rate
Fine	1.33 - 1.67 pts.	Label rate	1.67 - 2.0 pts.	Label rate
DO NOT USE ON Muck or Peat (soils with more than 20% organic matter).				

Follow all use directions, limitations, restrictions, precautions, and information regarding application to soybeans on the **GCS Metola Plus 8EC** and ethalfluralin labels.

TANK MIXTURE WITH IMAZETHAPYR

This tank mixture controls all weeds controlled by **GCS Metola Plus 8EC** alone and by Imazethapyr alone. Refer to the **GCS Metola Plus 8EC APPLIED Alone** section for weeds controlled by **GCS Metola Plus 8EC** and to the Imazethapyr label for weeds controlled by Imazethapyr. Refer to the Imazethapyr label for geographical locations where this tank mixture may be applied.

Apply **GCS Metola Plus 8EC** + Imazethapyr early pre-plant, pre-plant incorporated, or pre-emergence after planting, using rates in the **GCS Metola Plus 8EC + Imazethapyr-Soybeans** table. Application can be made in water or liquid fertilizer. Follow all use directions under Soil Applications on the Imazethapyr label. For early pre-plant and pre-plant incorporated applications, apply within 30 days of planting.

Follow all use directions, limitations, precautions, information regarding application to soybeans, and rotational restrictions on the **GCS Metola Plus 8EC** and Imazethapyr labels.

GCS Metola Plus 8EC + IMAZETHAPYR - Soybeans

SOIL TEXTURE	BROADCAST RATES PER ACRE			
	Less Than 3% Organic Matter		3% or More Organic Matter	
	GCS Metola Plus 8EC	IMAZETHAPYR	GCS Metola Plus 8EC	IMAZETHAPYR
Coarse	0.85 pt.	Label rate	1.0 pt.	Label rate
Medium	1.0 pt.	Label rate	1.33 pts.	Label rate
Fine	1.33 pts.	Label rate	1.33 - 1.67 pts.	Label rate

Sequential: Apply **GCS Metola Plus 8EC** early pre-plant, pre-plant incorporated, or pre-emergence after planting at 0.85 pt./A on coarse soils and 1.0 pt./A on medium- and fine-textured soils. Follow with a sequential post-emergence application of Imazethapyr to control emerged weeds according to the Imazethapyr label. **GCS Metola Plus 8EC** will improve the consistency and level of control from Imazethapyr on most grass species. Refer to the Imazethapyr post-emergence label for a listing of weeds controlled, application rate, and growth stage limitations.

MINIMUM -TILLAGE OR NO-TILLAGE SYSTEMS

TANK MIXTURE WITH METRIBUZIN, IMAZAQUIN, LINURON, LINURON/CHLORIMURON-ETHYL, PRODIAMINE/ISOXABEN, METRIBUZIN/CHLORIMURON-ETHYL, OR IMAZETHAPYR, PLUS PARAQUAT OR GLYPHOSATE

In minimum-tillage or no-tillage systems where soybeans are planted directly into a cover crop, stale seedbed, established sod, or previous crop residues, the contact herbicides paraquat or glyphosate may be added to a tank mix of either **GCS Metola Plus 8EC** + metribuzin, **GCS Metola Plus 8EC** + Imazaquin, **GCS Metola Plus 8EC** + linuron, **GCS Metola Plus 8EC** + linuron/chlorimuron-ethyl, **GCS Metola Plus 8EC** + prodiamine/isoxaben, **GCS Metola Plus 8EC** + metribuzin/chlorimuron-ethyl, or **GCS Metola Plus 8EC** + Imazethapyr.

When used as directed, the paraquat portion of the tank mixture controls most emerged weeds and suppresses many perennial weeds.

Glyphosate combinations will control emerged annual and perennial weeds when applied as directed on the glyphosate label.

The **GCS Metola Plus 8EC** + metribuzin, Imazaquin, linuron, linuron/chlorimuron-ethyl, prodiamine/isoxaben, metribuzin/ chlorimuron-ethyl, or Imazethapyr portion of the tank mixture provides pre-emergence control of the weeds listed on this label in the tank mixture section for **GCS Metola Plus 8EC** + metribuzin, **GCS Metola Plus 8EC** + Imazaquin, **GCS Metola Plus 8EC** + linuron, **GCS Metola Plus 8EC** + linuron/chlorimuron-ethyl, **GCS Metola Plus 8EC** + prodiamine/isoxaben, **GCS Metola Plus 8EC** + metribuzin/chlorimuron-ethyl, and **GCS Metola Plus 8EC** + Imazethapyr, respectively.

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

Application: Apply before, during, or after planting, but before the soybeans emerge, at the rates specified in the chart below. Apply in 20-60 gals. of water or fluid fertilizer per acre with ground equipment.

For All Tank Mix Partners - Refer to the label of each product used in combination and observe the planting details, soybean variety restrictions, information regarding application to soybeans, geographical restrictions, soil and organic matter classification, pH limitations and all other use precautions and restrictions.

Paraquat:

- Add the label rate. Apply surfactant at 1.0 or 2 pts./100 gals. of spray mixture with 75% or greater or 50-74% nonionic active ingredient, respectively. This treatment will not control weeds taller than 6 inches.

Restriction:

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

Tank Mix Partners	GCS Metola Plus 8EC Rates per Acre			Tank Mix Partner Rates per Acre	Restrictions
	Coarse Soil	Medium Soil	Fine Soil		
Metribuzin + Paraquat or Glyphosate	1.0	1.33	1.33 - 1.67	Label rate	Do not use this tank mixture on soil with less than 0.5% organic matter, on alkaline soil with a pH over 7.4, or on all sand and on loamy sand with less than 2% organic matter. Do not apply if heavy rain is forecast soon after application, especially in poorly drained areas where water stands for several days, or where the seeding slit has not been properly closed.
Imazaquin + Paraquat or Glyphosate	1.0	1.33	1.67	Label rate	Do not apply within 90 days of harvest, do not graze or feed treated soybean forage, hay, or straw to livestock.
Linuron + Paraquat or Glyphosate	1.0	1.33	1.33 - 1.67	Label rate	Do not use on loamy sand, except in the Northeastern U.S. on loamy sand with over 1% organic matter, or injury may occur. Do not use on sand, gravelly soils, or exposed subsoils, or injury may occur. Do not use on soil with less than 0.5% organic matter, or crop injury may occur.
Linuron/Chlorimuron-ethyl + Paraquat or Glyphosate	1.0	1.33	1.33 - 1.67	Label rate	Do not use on soils with less than 0.5% or more than 3% organic matter. Do not apply to sand or to any soil with pH greater than 6.8
Metribuzin/Chlorimuron-ethyl + Paraquat or Glyphosate	1.0 Do not use on sand	1.33	1.33 - 1.67	Label rate	Do not use on soils with less than 0.5% or more than 5% organic matter. DO NOT apply to sand, or to any soil with less than 0.5% organic matter, or to any soil with pH greater than 6.8, except as noted on the metribuzin / chlorimuron-ethyl label.
Imazethapyr + Paraquat or Glyphosate	1.0	1.33	1.67	Label rate	None

TANK MIXTURE OF GCS Metola Plus 8EC WITH GLYPHOSATE FOR USE ON GLYPHOSATE-RESISTANT SOYBEANS

GCS Metola Plus 8EC may be tank mixed with glyphosate in water and applied post-emergence over-the top or post-emergence-directed spray only up through the 5th trifoliate leaf stage of soybean varieties or cultivars warranted as resistant to glyphosate. This tank mixture will control emerged weeds listed on the glyphosate label and residual pre-emergence control of weeds listed on this label.

See the **Soybean – GCS Metola Plus 8EC APPLIED ALONE – Post-emergence** section for proper rates and timing of **GCS Metola Plus 8EC**. Also follow the glyphosate label for appropriate use rate, method of application, and restrictions of application timing. For post-emergence over-the-top application, do not add any adjuvants, surfactants, fertilizers, or other pesticides to this tank mixture as unacceptable injury may occur.

Restrictions:

- DO NOT apply this tank mixture post-emergence to any soybean variety unless it is designated glyphosate-resistant and unless the glyphosate formulation being used is registered for post-emergence use in glyphosate-resistant soybeans.
- DO NOT apply more than 1.33 pints per acre post-emergence.
- Do not apply a post-emergence application of this product if a pre-plant surface, pre-plant incorporated, or pre-emergence application of metolachlor products has already been applied.
- Following a post-emergence application of this product, DO NOT graze or feed treated soybean forage or soybean hay to livestock.
- Post-emergence applications must be made at least 90 days before harvest.
- NOT FOR USE IN CALIFORNIA.

TANK MIXTURE OF GCS Metola Plus 8EC WITH GLUFOSINATE FOR USE ON GLUFOSINATE-RESISTANT SOYBEANS

GCS Metola Plus 8EC may be tank mixed with glufosinate in water and applied post-emergence over-the top or post-emergence-directed spray only up through the 3rd trifoliolate leaf stage of soybean varieties or cultivars warranted as resistant to glufosinate. This tank mixture will control emerged weeds listed on the glufosinate label and provide residual pre-emergence control of weeds listed on this label.

See the **Soybean – GCS Metola Plus 8EC APPLIED ALONE – Post-emergence** section for proper rates and timing of **GCS Metola Plus 8EC**. Also follow the glufosinate label for appropriate use rate, method of application, and restrictions of application timing. For post-emergence over-the-top application, do not add any adjuvants, surfactants, fertilizers, or other pesticides to this tank mixture as unacceptable injury may occur.

Restrictions:

- DO NOT apply this tank mixture post-emergence to any soybean variety unless it is designated glufosinate-resistant and unless the glufosinate formulation being used is registered for post-emergence use in glufosinate-resistant soybeans or glufosinate-resistant soybeans.
- DO NOT apply more than 1.33 pints per acre post-emergence.
- Following a post-emergence application of this product, DO NOT graze or feed treated soybean forage or soybean hay to livestock.
- Post-emergence applications must be made at least 90 days before harvest.

TOMATOES

TRANSPLANTED TOMATOES

GCS Metola Plus 8EC may be applied pre-plant incorporated or pre-plant before transplanting. If the latter method is used, keep soil disturbance to a minimum during transplanting. Application may also be made post-directed to transplants after the first settling rain or irrigation. When an application is made post-directed, apply in a minimum of 20 gallons of water per acre and minimum contact with tomato plants. This product will not control emerged weeds. In bedded transplanted tomatoes, apply this product pre-plant non-incorporated to the top of the pressed bed, as the last step, prior to laying plastic. **GCS Metola Plus 8EC** 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.

SEEDED TOMATOES

GCS Metola Plus 8EC may be applied post-directed to direct seeded tomatoes. Tomato plants must be at least 4 inches tall at the time of application and the product must be applied in a minimum of 20 gallons of water per acre. Minimize spray contact with tomato plants. This product will not control emerged weeds.

SOIL TEXTURE	BROADCAST RATES PER ACRE	
	Less Than 3% Organic Matter	3% or More Organic Matter
	GCS Metola Plus 8EC	GCS Metola Plus 8EC
Coarse	1.0 - 1.33 pts.	1.33 pts.
Medium	1.33 pts.	1.33 pts.
Fine	1.33 - 1.67 pts.	1.67 - 2.0 pts.

Precautions:

- DO NOT apply to varieties or cultivars with unknown tolerance to **GCS Metola Plus 8EC**.
- This product may damage transplants that have been weakened by any cause. To prevent damage, plant only healthy transplants. Do not plant when wet, cool, or unfavorable growing conditions exist.
- In transplanted tomatoes, if this product is applied pre-plant incorporated, incorporate to a depth less than the depth of transplanting, and use the lower end of the rate range for the given soil type, or damage may occur.
- For row middle applications where tomatoes are grown on sandy soils and where high soil moisture conditions can exist (i.e. low binding and high evaporation conditions), as may be found in the States of Florida, Georgia, Maryland, and Virginia, there is potential for crop injury in the form of leaf epinasty. The risk of this type of injury can be reduced by:
 - a. incorporating this product immediately following application,
 - b. applying this product seven 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.

Restrictions:

- DO NOT apply this product within 90 days of tomato harvest.
- DO NOT exceed the maximum label rate for the soil texture per year.
- Apply by ground application.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: This product may be stored at temperatures down to 30°F below 0°F.

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

CONTAINER HANDLING:

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

NONREFILLABLE CONTAINER (RIGID MATERIAL, GREATER THAN 5 GALLONS): 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. 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. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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 mix tank to 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.

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

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 Sciences, 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. 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.

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