Note: It is illegal to sell, use or distribute this product within, or into, Nassau County or Suffolk County, New York.

Herbicide

Medal EC

For weed control in corn; cotton; grasses grown for seed; horseradish; peanuts; beans, peas, and lentils; potatoes; pumpkin; rhubarb; safflowers; sugar beets; sunflowers; sweet, grain or forage sorghum; soybean; soybean, immature seed; and tomatoes

Active Ingredient:
S-metolachlor
(CAS No. 87392-12-9) . . . . . . . . . . . . . . . . . . . . 83.7%

Other Ingredients: 16.3%

Total: 100.0%

Medal EC contains 7.62 lbs. of active ingredient per gallon.

EPA Reg. No. 100-816
EPA Est. 070989-IA-001

Keep out of reach of children.

Caution

See additional precautionary statements and directions for use inside booklet.

Product of Switzerland
Formulated in the USA

SCP 816B-L1U 1210

2.5 gallons
Net Contents
PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Causes moderate eye irritation. Harmful if swallowed or absorbed through skin. Avoid contact with eyes, skin, or clothing. May cause skin sensitization reactions in certain individuals.

FIRST AID

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

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

If swallowed
- Call a poison control center or doctor immediately for treatment advice.
- Do not give any liquid to the person.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

If inhaled
- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a Poison Control Center or doctor, or going for treatment.

HOT LINE NUMBER

For 24 Hour Medical Emergency Assistance (Human or Animal)
Or Chemical Emergency Assistance (Spill, Leak, Fire or Accident),
Call
1-800-888-8372

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:
- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate or Viton®
- Shoes plus socks

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

Engineering Control Statements

Mixers and loaders supporting aerial applications are required to use closed systems. The closed system must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)]. When using the closed system, the mixers’ and loaders’ PPE requirements may be reduced or modified as specified in the WPS.

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

continued...
User Safety Recommendations
Users should:
- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing 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, 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 water or rinsate.

Ground Water Advisory
The active ingredient in Medal EC has the potential to leach through soil into ground water under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

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

Mixing/Loading 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 antisiphoning devices must be used on all mixing and/or irrigation equipment.

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

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. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent consistent with applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent consistent with applicable law: (1) this warranty does not extend to the use of the product contrary to label instructions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and, (2) Buyer and User assume the risk of any such use. To the extent consistent with applicable law, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.

To the extent consistent with applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.

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

**DIRECTIONS FOR USE**

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

Medal EC should be used only in accordance with recommendations on this label or in separately published EPA accepted supplemental labeling recommendations for this 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.

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

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

- Coveralls
- Chemical-resistant gloves, such as barrier laminate or Viton
- Shoes plus socks
FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR WEED CONTROL, CROP INJURY, OR ILLEGAL RESIDUES.

To avoid spray drift, do not apply under windy conditions. Avoid spray overlap, as crop injury may result.

Note: Not for sale, use or distribution in Nassau County or Suffolk County, New York.

PRODUCT INFORMATION

Observe all precautions and limitations on the labels of each product used in tank mixtures. Tank mixtures are permitted only in those states where the tank mix partner is registered. Refer to and follow the label for each tank mix product used for precautionary statements, directions for use, geographic and other restrictions.

Medal EC is a selective herbicide recommended as a preplant surface-applied, preplant incorporated, or preemergence treatment in water or fluid fertilizer for control of most annual grasses and certain broadleaf weeds in corn (all types); cotton; grasses grown for seed; peanuts; beans, peas and lentils; potatoes; safflowers; sugar beets; sunflowers; grain or forage sorghum; soybeans; soybean, immature seed; and tomatoes.

Note: Do not use in nurseries, turf, or landscape plantings.

Do not apply under conditions which favor runoff or wind erosion of soil containing this product to nontarget areas.

To prevent off-site movement due to runoff or wind erosion:

- Avoid treating powdery dry or light sand soils when conditions are favorable for wind erosion. Under these conditions, the soil surface should first be settled by rainfall or irrigation.
- Do not apply to impervious substrates, such as paved or highly compacted surfaces.
- Do not use tailwater from the first flood or furrow irrigation of treated fields to treat nontarget crops, unless at least 1/2 inch of rainfall has occurred between application and the first irrigation.

Where directions specify a Medal EC tank mixture with AAtrex® formulations, other brands of atrazine may be used. Follow the rates, recommendations, and limitations on the AAtrex or respective atrazine product label if other brands of atrazine are used.

Note: 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.

If Medal EC is incorporated, any supplemental tillage before planting must not exceed the depth of incorporation.

Dry weather following preemergence application of Medal EC or a tank mixture may reduce effectiveness. Cultivate if weeds develop.

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

Precaution: Injury may occur following the use of Medal EC under abnormally high soil moisture conditions during early development of the crop.
SOIL TEXTURES AND HERBICIDE RATES
Where rates are based on coarse-, medium-, or fine-textured soils, it is understood that soil textural classes are generally categorized as follows:

<table>
<thead>
<tr>
<th>Coarse</th>
<th>Medium</th>
<th>Fine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sand</td>
<td>Loam</td>
<td>Sandy clay loam</td>
</tr>
<tr>
<td>Loamy sand</td>
<td>Silt loam</td>
<td>Silty clay loam</td>
</tr>
<tr>
<td>Sandy loam</td>
<td>Silt</td>
<td>Clay loam</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sandy clay</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Silty clay</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Clay</td>
</tr>
</tbody>
</table>

Within rate ranges in the rate tables and elsewhere on this label, 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.

Note: Medal EC may be applied preemergence alone, or in combination with tank mix partners specified on this label, following preplant incorporated herbicides when used according to their label recommendations, provided that such use is not prohibited on the respective labels.

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

MEDAL EC APPLIED ALONE
WEEDS CONTROLLED
Medal EC is taken up by the shoots and/or roots of emerging weeds. This uptake results in the inhibition of shoot and root tissue growth soon after weed germination. Because of this, Medal EC will not control emerged weeds and should be applied prior to weed emergence.

If Medal EC is incorporated, do not exceed a 2-3 inch depth. Any tillage after the Medal EC incorporation and before planting should not exceed 2-3 inches.

Dry weather following application of Medal EC may reduce weed control. Cultivate if weeds develop.

Where reference is made to weeds partially controlled, partial control can either mean erratic control from good to poor, or consistent control at a level below that generally considered acceptable for commercial weed control. Control of these weeds can be erratic, due partially to variable weather conditions. The following procedures may improve the control of weeds listed as partially controlled in Table 1:

- Thoroughly till soil to destroy germinating and emerged weeds.
- Plant crop into moist soil immediately after tillage. If Medal EC is to be used preemergence, apply at planting or immediately after planting.
- If available, sprinkler irrigate within 2 days after application. Apply 1/2-1 inch of water. Use lower water volume (1/2 inch) on coarse-textured soils and higher volume (1 inch) on fine-textured soils. Also, refer to the section on Center Pivot Irrigation Application for this method of applying Medal EC.
- If irrigation is not possible and rain does not occur within 2 days after planting and application, weed control may be decreased. Under these conditions, a uniform, shallow cultivation is recommended as soon as weeds emerge.
<table>
<thead>
<tr>
<th>Common Name</th>
<th>Scientific Name</th>
<th>Weed Type</th>
<th>Control (C) or Partial Control (PC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barnyardgrass</td>
<td>Echinochloa crus-galli</td>
<td>Grass</td>
<td>C</td>
</tr>
<tr>
<td>Crabgrass, large</td>
<td>Digitaria ischaemum</td>
<td>Grass</td>
<td>C</td>
</tr>
<tr>
<td>Crabgrass, smooth</td>
<td>Digitaria sanguinalis</td>
<td>Grass</td>
<td>C</td>
</tr>
<tr>
<td>Crowfootgrass</td>
<td>Dactyloctenium aegyptium</td>
<td>Grass</td>
<td>C</td>
</tr>
<tr>
<td>Cupgrass, Prairie</td>
<td>Eriochloa contracta</td>
<td>Grass</td>
<td>C</td>
</tr>
<tr>
<td>Cupgrass, Southwestern</td>
<td>Eriochloa acuminata</td>
<td>Grass</td>
<td>C</td>
</tr>
<tr>
<td>Cupgrass, woolly</td>
<td>Eriochloa villosa</td>
<td>Grass</td>
<td>PC</td>
</tr>
<tr>
<td>Foxtail, bristly</td>
<td>Setaria verticillata</td>
<td>Grass</td>
<td>C</td>
</tr>
<tr>
<td>Foxtail, giant</td>
<td>Setaria faber</td>
<td>Grass</td>
<td>C</td>
</tr>
<tr>
<td>Foxtail, green</td>
<td>Setaria viridis</td>
<td>Grass</td>
<td>C</td>
</tr>
<tr>
<td>Foxtail, millet</td>
<td>Setaria italica</td>
<td>Grass</td>
<td>C</td>
</tr>
<tr>
<td>Foxtail, yellow</td>
<td>Setaria pumila</td>
<td>Grass</td>
<td>C</td>
</tr>
<tr>
<td>Goosegrass</td>
<td>Eleusine indica</td>
<td>Grass</td>
<td>C</td>
</tr>
<tr>
<td>Johnsongrass (seedling)</td>
<td>Sorghum halepense</td>
<td>Grass</td>
<td>PC</td>
</tr>
<tr>
<td>Millet, wild-proso</td>
<td>Panicum miliaceum</td>
<td>Grass</td>
<td>PC</td>
</tr>
<tr>
<td>Panicum, fall</td>
<td>Panicum dichotomiflorum</td>
<td>Grass</td>
<td>C</td>
</tr>
<tr>
<td>Panicum, Texas</td>
<td>Panicum texanum</td>
<td>Grass</td>
<td>PC</td>
</tr>
<tr>
<td>Rice, red</td>
<td>Oryza punctata</td>
<td>Grass</td>
<td>C</td>
</tr>
<tr>
<td>Sandbur, field</td>
<td>Cenchrus spinifex</td>
<td>Grass</td>
<td>PC</td>
</tr>
<tr>
<td>Ryegrass, Italian</td>
<td>Lolium multiflorum</td>
<td>Grass</td>
<td>C</td>
</tr>
<tr>
<td>Sandbur, Southern</td>
<td>Cenchrus echinatus</td>
<td>Grass</td>
<td>PC</td>
</tr>
<tr>
<td>Shattercane</td>
<td>Sorghum bicolor</td>
<td>Grass</td>
<td>PC</td>
</tr>
<tr>
<td>Signalgrass, broadleaf</td>
<td>Urochloa platyphylla</td>
<td>Grass</td>
<td>C</td>
</tr>
<tr>
<td>Sorghum (volunteer)</td>
<td>Sorghum bicolor</td>
<td>Grass</td>
<td>PC</td>
</tr>
<tr>
<td>Witchgrass</td>
<td>Panicum capillare</td>
<td>Grass</td>
<td>C</td>
</tr>
<tr>
<td>Amaranth, Palmer</td>
<td>Amaranthus palmeri</td>
<td>Broadleaf</td>
<td>C</td>
</tr>
<tr>
<td>Amaranth, Powell</td>
<td>Amaranthus powellii</td>
<td>Broadleaf</td>
<td>C</td>
</tr>
<tr>
<td>Beggarweed, Florida</td>
<td>Desmodium tortuosum</td>
<td>Broadleaf</td>
<td>PC</td>
</tr>
<tr>
<td>Carpetweed</td>
<td>Mollugo verticillata</td>
<td>Broadleaf</td>
<td>C</td>
</tr>
<tr>
<td>Eclipta</td>
<td>Eclipta prostrata</td>
<td>Broadleaf</td>
<td>PC</td>
</tr>
<tr>
<td>Galinsoga, hairy</td>
<td>Galinsoga quadriradiata</td>
<td>Broadleaf</td>
<td>C</td>
</tr>
<tr>
<td>Galinsoga, smallflower</td>
<td>Galinsoga parviflora</td>
<td>Broadleaf</td>
<td>C</td>
</tr>
<tr>
<td>Nightshade, Eastern black</td>
<td>Solanum ptychanthum</td>
<td>Broadleaf</td>
<td>C</td>
</tr>
</tbody>
</table>
### Common Name | Scientific Name | Weed Type | Control (C) or Partial Control (PC)
---|---|---|---
Nightshade, hairy | *Solanum physalifolium* | Broadleaf | PC
Pigweed, prostrate | *Amaranthus blitoides* | Broadleaf | C
Pigweed, redroot | *Amaranthus retroflexus* | Broadleaf | C
Pigweed, smooth | *Amaranthus hybridus* | Broadleaf | C
Pigweed, tumble | *Amaranthus albus* | Broadleaf | C
Purslane, common | *Portulaca oleracea* | Broadleaf | PC
Pusley, Florida | *Richardia scabra* | Broadleaf | C
Spiderwort, tropical | *Commelina benghalensis* | Broadleaf | C
Waterhemp, common | *Amaranthus rudis* | Broadleaf | C
Waterhemp, tall | *Amaranthus tuberculatus* | Broadleaf | C
Nutsedge, yellow | *Cyperus esculentus* | Sedge | C

1 Refer to the corn section of this label for additional recommendations.

### PREPLANT AND ROTATIONAL CROPS SECTION

#### Replanted Crop Directions:
This section covers replant crops that may be planted following a lost crop that has had an application of Medal EC.

If a crop treated with Medal EC is lost, any crop on this label, or on a supplemental Medal EC label, may be replanted immediately provided that the rate of Medal EC applied to the previous crop was not greater than the labeled rate for the crop to be replanted. If the first application was banded and the replant crop is planted in the center of the untreated bands, a second banded treatment may be applied at the rate for the use-pattern for the replant crop, provided the application does not overlap the first application band.

#### Rotational Crop Directions:
Do not rotate to food or feed crops other than those listed below. For all crops not listed, wait at least 12 months following the last application of Medal EC before planting.

- Barley, oats, rye, or wheat may be planted 4 1/2 months following treatment.
- Alfalfa may be planted 4 months following application. Clover may be seeded 9 months following application.

**Important Notes:** To avoid injury to rotational alfalfa or clover: 1) do not apply more than 1.9 lb. active ingredient per acre (2.0 pt. of Medal EC) in the previous crop, and 2) do not make lay-by or other postemergence applications of Medal EC in the previous crop.

- Tobacco, buckwheat, and rice, may be planted in the next spring following treatment.

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

**Precautions:** 1) Rotating to crops within these crop groupings at less than 60 days may result in crop injury. 2) If the rate of Medal EC applied in the previous crops was greater than the rate listed here (Sections A-C below), these crops cannot be planted until the following spring.
A. If not more than 1.33 pt./A of Medal EC was applied to the field, the following crops (as well as any listed under subsections B or C below) may be planted 60 days after the last application. A second application of a S-metolachlor containing product to the following crops is prohibited within 60 days of the original application.

**Crop Subgroup 1B Root Vegetables** – garden beet, edible burdock, carrot, celeriac, turnip-rooted chervil, chicory, ginseng, horseradish, turnip-rooted parsley, parsnip, radish, oriental radish, rutabaga, salsify, black salsify, Spanish salsify, skirret, and turnip.

**Bulb Crops** – garlic, green onion, dry bulb onion, shallot.

Winter squash (including pumpkins)

B. If not more than 1.67 pt./A of Medal EC was applied to the field, the following crops (as well as any listed under subsection C below) may be planted 60 days after the last application. A second application of a S-metolachlor containing product to the following crops is prohibited within 60 days of the original application.

**Crop Group 8 Fruiting Vegetables, except Cucurbits and Tabasco Peppers** – eggplant, groundcherry (*Physalis* spp.), pepino, peppers (bell, chili, cooking, pimento and sweet), tomatillo and tomato.

C. If not more than 2.0 pt./A of Medal EC was applied to the field, the following crops may be planted 60 days after the last application. A second application of a S-metolachlor containing product to the following crops is prohibited within 60 days of the original application.

**Crop Subgroup 1C Tuberous and Corm Vegetables** – arracacha, arrowroot, Chinese artichoke, Jerusalem artichoke, edible canna, bitter and sweet cassava, chayote (root), chufa, dasheen (taro), ginger, leren, potato, sweet potato, tanier, tumeric, yam bean, yam, true.

**Bulb Crops** – garlic, dry bulb and green onion, shallot.

**Crop Subgroup 4B Leaf Petiole Vegetables** – cardoon, celery, Chinese celery, celtuce, Florence fennel, rhubarb, and Swiss chard.

**Crop Subgroup 5A Head and Stem Brassica Vegetables** – broccoli, Chinese broccoli, brussel sprouts, cabbage, Chinese (napa) cabbage, Chinese mustard, cauliflower, cavalo broccolo and kohlrabi.

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**APPLICATION PROCEDURES**

**Application Timing**

Medal EC alone or in tank mixtures with other labeled herbicides may be applied for weed control in certain crops at various times. Refer to the given crop section of the label to determine if application timings listed below are recommended.

- **Preplant Surface-Applied:** For minimum-tillage or no-tillage systems only, Medal EC alone and some Medal EC tank mixtures may be applied up to 45 days before planting certain crops. Use only split applications for treatments made 30-45 days before planting, with 2/3 the recommended broadcast rate for the crop and soil texture applied initially and the remaining 1/3 at planting. Treatments less than 30 days before planting may be made either as a split or a single application. Refer to individual crop section on this label to determine if early preplant surface application is recommended. If weeds are present at the time of treatment, apply in a tank mixture combination with a contact herbicide (for example, Gramoxone Inteon®, Touchdown® brands, or Roundup® brands). 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.

- **Preplant Incorporated:** Apply Medal EC 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 preplant 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 Medal EC after bed formation, unless specified otherwise.

- **Preemergence:** Apply Medal EC during planting (behind the planter) or after planting, but before weeds or crops emerge.
• Postemergence: Medal EC will not control emerged weeds so it must be applied to a weed-free soil surface or in tank mixture with products that provide postemergence control of weeds present at the time of application. Refer to the individual crop section of this label if a postemergence application is recommended.

Special Application Procedures

• CA Only (Corn; Saffl owers; Beans, Peas, and Lentils): Preplant Incorporated: Broadcast Medal EC 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 Medal EC treated zone is used (i.e., untreated soil should not be brought to soil surface). If the application is made to preformed beds, incorporate Medal EC with a tillage implement set to till 2-4 inches deep. Care should be taken during tilling to keep the tilled (Medal EC treated) soil on the beds. Preemergence: Apply Medal EC after planting. Water with sprinkler or flood irrigation within 7-10 days.

• Fall Application for Spring Weed Control (Only in IA, MN, ND, SD, WI, and portions of NE and IL - See specific instructions in the Corn; Soybeans; and Beans, Peas, and Lentils sections of this label for timing of application and other information): Do not apply to frozen ground. Use on medium and fine soils with greater than 2.5% organic matter that will be planted to corn or soybeans the next spring. Ground may be tilled before or after application. Do not exceed a 2 to 3-inch incorporation depth if tilled after treatment. Note: If a spring application is made, the total rate of the fall plus spring applications must not exceed the maximum total rate for the specific crop, or illegal residues may result.

• Fall Application for Italian Ryegrass Control (Corn, Cotton, Grain and Forage Sorghum, and Soybean Only – See specific instructions in the Corn, Cotton, Grain and Forage Sorghum, and Soybean sections of this label for timing of application and other information): Medal EC may be applied in the fall (September 1-December 1) for residual control of glyphosate-resistant Italian ryegrass (Lolium multiflorum). A tillage operation may precede the application. Do not incorporate to a depth greater than 2-3 inches if tillage follows the application of Medal EC. Notes: 1) Do not apply Medal EC to frozen ground. 2) All crops on the Medal EC label may be planted the following spring after application. 3) If a spring application is made, the combined total amount of Medal EC applied in the fall plus the spring must not exceed the maximum seasonal S-metolachlor rate for the specific crop planted, or illegal residues may results. 4) Refer to the crop sections on this label for specific directions.

Ground Application: Apply Medal EC 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 Medal EC tank mixtures with wettable powder or dry flowable formulations, screens and strainers should be no 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:

\[
\text{band width in inches} \times \text{broadcast rate per acre} = \text{amount needed per acre of field}
\]

For information on applying in lower volumes of carrier, see Low Carrier Application section.

For application by air or through center pivot systems, see Aerial Drift Management and Aerial Drift Reduction Advisory Information sections.

For information on impregnating dry fertilizer, see Dry Bulk Granular Fertilizers section.

For information on application using variable-rate technologies, see Variable-Rate Application section.
SPRAY EQUIPMENT

LOW CARRIER APPLICATION

For 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 should 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: (1) maintain up to 35-40 psi at the nozzles, and (2) provide sufficient agitation in tank to keep mixture in suspension. Use a minimum of 5.0 gals. of spray mixture per acre. Maximum recommended sprayer speed is 15 mph. Rinse sprayer thoroughly with clean water immediately after each use.

Note: Low pressure nozzles are recommended to reduce drift and increase application accuracy. Care should be taken when using automatic rate controlling devices to spray the material within the rated working pressure and flow ranges of the nozzles selected. Nozzle screens should be used when recommended by the manufacturer. All nozzles should be placed on 20-inch centers, except flooding types which should be placed on 40-inch centers. When Flat Fan-type nozzles are used, angles of 80° or 110° are recommended. Always read and follow the manufacturer’s directions for optimum setup and performance of their nozzles or tips.

AERIAL APPLICATION

Apply Medal EC in water alone or in tank mixtures with AAtrex, Lorox®, or Sencor® in a minimum total volume of 2.0 gals./A by aircraft. Medal EC may also be applied by air in combination with Balan®, Prowl®, or Treflan®. Avoid application under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur. In order to assure that spray will be controllable within the target area when used according to label directions, make applications at a maximum height of 10 ft., using low-drift nozzles at a maximum pressure of 40 psi, and restrict application to periods when wind speed does not exceed 10 mph. To assure that spray will not adversely affect adjacent sensitive nontarget plants, apply Medal EC alone or Medal EC + AAtrex by aircraft at a minimum upwind distance of 400 ft. from sensitive plants, or apply Medal EC, Lorox, or Sencor at a minimum upwind distance of 300 ft. from sensitive plants.

Aerial Drift Management

The interaction of many equipment- and weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses, or to applications using dry formulations.

- The distance of the outermost nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
- Nozzles must always point backward parallel with the air stream and never be pointed downward more than 45 degrees.

Where states have more stringent regulations, they must be observed.

The applicator should be familiar with and take into account the information covered in the Aerial Drift Reduction Advisory Information section below.

Aerial Drift Reduction Advisory Information

Information on Droplet Size

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversions).
Controlling Droplet Size

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

Application Height
Applications should not be made at a height greater than 10 ft. above the top of the largest plants, unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

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

Wind
Drift potential is lowest between wind speeds of 2-10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. **Note:** Local terrain can influence wind patterns.

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

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

Sensitive Areas
The pesticide should 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, nontarget crops) is minimal (e.g., when wind is blowing away from the sensitive areas).

Avoid application to humans or animals. Flagmen and loaders should avoid inhalation of spray mist and prolonged contact with skin.
CENTER PIVOT IRRIGATION APPLICATION
Medal EC alone or in tank mixture with other herbicides on this label, which are registered for center pivot application, may be applied in irrigation water preemergence (after planting, but before weeds or crop emerge) at rates recommended on this label. Medal EC also may be applied postemergence to the crop and preemergence to weeds in crops where postemergence applications are allowed on this label. Follow all restrictions (height, timing, rate, etc.) to avoid illegal residues. Apply this product only through a center pivot irrigation system. Do not apply this product through any other type of irrigation system. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water. If you have questions about calibration, you should 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
• The system must contain a functional check-valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water-source contamination from backflow.
• The pesticide injection pipeline must contain a functional, automatic, quick-closing check-valve to prevent the flow of fluid back toward the injection pump.
• 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.
• The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
• 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.
• 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.
• Do not apply when wind speed favors drift beyond the area intended for treatment.
• Prepare a mixture with a minimum of 1 part water to 1 part herbicide(s) and inject this mixture into the center pivot system. Injecting a larger volume of a more dilute mixture per hour will usually provide more accurate calibration of metering equipment. Maintain sufficient agitation to keep the herbicide in suspension.
• Meter into irrigation water during entire period of water application.
• 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 may result. Where sprinkler distribution patterns overlap excessively, crop injury may result.

DRY BULK GRANULAR FERTILIZERS
Many dry bulk granular fertilizers may be impregnated or coated with Medal EC alone or selected Medal EC tank mixtures which are registered for preplant incorporated or preplant surface applications which are used to control weeds in crops on the Medal EC label and are not prohibited from use on dry bulk granular fertilizers.

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

All individual state regulations relating to dry bulk granular fertilizer blending, registration, labeling, and application are the responsibility of the individual and/or company selling the herbicide/fertilizer mixture.
Prepare the herbicide/fertilizer mixtures by using any closed drum, belt, ribbon, or other commonly used dry bulk fertilizer blender. Nozzles used to spray Medal EC and Medal EC mixtures onto the fertilizer must be placed to provide uniform spray coverage. Care should be taken to aim the spray directly onto the fertilizer only and to avoid spraying the walls of the blender.

If the herbicide/fertilizer mixture is too wet, add a highly absorptive material, such as Agsorb® or Celatom MP-79®, or similar granular clay or diatomaceous earth materials, to obtain a dry, free-flowing mixture. Absorptive materials should be added only after the herbicide has been thoroughly blended into the fertilizer mixture. Best application results will be obtained by using a granule of 6/30 particle size or of a size similar to that of the fertilizer material being used. Generally, less than 2% by weight of absorptive material will be needed. Avoid using more than 5% absorptive material by weight.

Calculate amounts of Medal EC, AAtrex, AAtrex + Princep®, Balance® Pro, Princep, Sencor, or Sonalan® by the following formula:

\[
\frac{2000}{\text{lbs. of fertilizer per acre}} \times \frac{\text{pts. of liquid or flowable product}}{\text{per ton of fertilizer}} = \frac{\text{pts. of liquid or flowable product}}{\text{per ton of fertilizer}}
\]

\[
\frac{2000}{\text{lbs. of fertilizer per acre}} \times \frac{\text{lbs. of dry product}}{\text{per ton of fertilizer}} = \frac{\text{lbs. of dry product}}{\text{per ton of fertilizer}}
\]

**Pneumatic (Compressed Air) Application (Medal EC Alone):** High humidity, high urea concentrations, low fertilizer use rates, and dusty fertilizer may cause fertilizer mixture to build up or plug the distributor head, air tubes, or nozzle deflector plates. To minimize buildup, premix Medal EC with Exxon Aromatic 200 at a rate of 1.0-4.0 pts./gal. of Medal EC. Aromatic 200 is a noncombustible/nonflammable petroleum product. Aromatic 200 may be used in either a fertilizer blender or through direct injection systems. Drying agents should not be used when using Aromatic 200.

**Notes:**
1. Mixtures of Medal EC and Aromatic 200 must be used on dry fertilizer only. Poor results or crop injury may result if these mixtures are used in water or liquid fertilizer solutions for spraying applications.
2. When impregnating Medal EC in a blender before application, a drier mixture can be attained by substituting a drying agent for Aromatic 200.
3. Drying agents are not recommended for use with On-The-Go impregnation equipment.

**Precautions:**
1. Do not impregnate Medal EC or Medal EC mixtures on ammonium nitrate, potassium nitrate, or sodium nitrate, either alone or in blends with other fertilizers.
2. Do not use Medal EC or Medal EC mixtures on straight limestone, since absorption will not be achieved. Fertilizer blends containing limestone can be impregnated.

**Application**

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

**Precaution:** To avoid crop injury, do not use the herbicide/fertilizer mixture on crops where bedding occurs.

**MIXING INSTRUCTIONS**

**Medal EC Alone:** Mix Medal EC with water or fluid fertilizer and apply as a spray. Fill the spray tank \(\frac{1}{2}-\frac{3}{4}\) full with water or fluid fertilizer, add the proper amount of Medal EC, then add the rest of the water or fluid fertilizer. Provide sufficient agitation during mixing and application to maintain a uniform emulsion.
Tank Mixtures: Fill the spray tank 1/4 full with water, and start agitation; add 2,4-D, AAtrex, Balance Pro, Balan, Banvel®, Basagran®, Butoxone®, Butyrac®, Canopy®, Caparol® 4L, Command®, Cotoran®, Eptam®, Liberty® Herbicide, Liberty ATZ Herbicide, Lorox, Marksman®, MSMA, Princep, Prowl, Pursuit®, AAtrex + Princep, Scepter®, Sencor, Sonalan, or Treflan, and allow it to become dispersed; then add Medal EC; then add Gramoxone Inteon, Landmaster® BW, Touchdown, or Roundup (glyphosate products) if these products are being used; and finally the rest of the water. For tank mixtures with AAtrex, Balance, Banvel, Canopy, Caparol 4L, Command, Cotoran*, Eptam, Lorox, Marksman, Princep, Prowl*, Pursuit, AAtrex + Princep, Scepter, Sencor, Sonalan, or Treflan, fluid fertilizers may replace all or part of the water as carrier, except in the AAtrex postemergence and the Banvel postemergence tank mixes. For tank mixtures with AAtrex, see additional mixing instructions on the AAtrex label. For each mixture, check compatibility with fluid fertilizer, as described below, before mixing in spray tank. For all tank mixtures, agitate during mixing and application to maintain a uniform suspension.

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

For directions on how to conduct a compatibility test, see the Compatibility Test section.

COMPATIBILITY TEST
A jar test is recommended before tank mixing to ensure compatibility of Medal EC with other pesticides. The following test assumes a spray volume of 25 gals./A. For other spray volumes, make appropriate changes in the ingredients.

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

Test Procedure
1. Add 1.0 pt. of carrier (fertilizer or water) to each of 2 one qt. jars with tight lids. Note: Use the same source of water that will be used for the tank mix and conduct the test at the temperature the tank mix will be applied.

2. To one of the jars, add 1/4 tsp. or 1.2 milliliters of a compatibility agent approved for this use, such as Compex or Unite (1/4 tsp. is equivalent to 2.0 pts./100 gals. spray). Shake or stir gently to mix.

3. To both jars, add the appropriate amount of pesticide(s) in their relative proportions based on recommended label rates. If more than one pesticide is used, add them separately with dry pesticides first, flowables next, and emulsifiable concentrates last. After each addition, shake or stir gently to thoroughly mix.

4. After adding all ingredients, put lids on and tighten, and invert each jar ten times to mix. Let the mixtures stand 15-30 minutes and then look for separation, large flakes, precipitates, gels, heavy oily film on the jar, or other signs of incompatibility. Determine if the compatibility agent is needed in the spray mixture by comparing the two jars. If either mixture separates, but can be remixed readily, the mixture can be sprayed as long as good agitation is used. If the mixtures are incompatible, test the following methods of improving compatibility: (a) Slurry the dry pesticide(s) in water before addition, or (b) add 1/2 the compatibility agent to the fertilizer or water and the other 1/2 to the emulsifiable concentrate or flowable pesticide before addition to the mixture. If incompatibility is still observed, do not use the mixture.

5. After compatibility testing is complete, dispose of any pesticide wastes in accordance with the Storage and Disposal section in this label.

CROP USE DIRECTIONS

CORN (ALL TYPES) – MEDAL EC ALONE

Apply Medal EC, either preplant surface, preplant incorporated, preemergence, or lay-by, using the appropriate rate specified below.

PREPLANT SURFACE-APPLIED
Refer to instructions for use of Medal EC alone under Application Procedures.
Fall Application for Spring Weed Control:
- Apply after September 30 in ND, SD, MN, WI, and north of Route 30 in IA.
- Apply after October 15 north of Route 91 in NE and south of Route 30 in IA.
- Apply after October 31 north of Route 136 in IL.
In all locations, apply to crop stubble after harvest when the sustained soil temperature at a 4-inch depth is less than 55°F and falling. In minimum-till or no-tillage systems on soils having greater than 2.5% organic matter, use 1.67-2.0 pts./A on medium-textured and 2.0 pts./A on fine-textured soils. Do not apply to frozen ground. 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. Note: If a spring application is made, the total rate of the fall plus spring applications must not exceed the maximum total rate for corn, or illegal residues may result.

Fall Application for Italian Ryegrass Control: Medal EC may be applied for residual control of glyphosate-resistant Italian ryegrass (*Lolium multiflorum*). Apply Medal EC at 1.33-1.67 pints/Acre in the fall (September 1–December 1) after harvest of the previous crop and prior to Italian ryegrass emergence. Use the lower Medal EC rate for coarse-textured soils and the higher rate for fine-textured soils. A tillage operation may precede the application. Do not incorporate to a depth greater than 2-3 inches if tillage follows the application of Medal EC. For fall applications after emergence of glyphosate-resistant Italian ryegrass, Gramoxone Inteon can be tank mixed with Medal EC to control emerged ryegrass. Refer to the Gromofoxine Inteon label for specific rates, application instructions and restrictions. Other registered herbicides may be tank mixed with Medal EC for control or improved control of other weeds present at the time of application. Precautions: (1) Do not apply Medal EC to frozen ground. (2) If a spring application is made, the combined total amount of Medal EC applied in the fall plus the spring must not exceed the maximum seasonal S-metolachlor rate for corn (3.9 pt/A depending on soil texture), or illegal residues may result.

Fall Application for Control or Suppression of Yellow Nutsedge (ID, OR and WA only): For pre-emergent control or suppression of yellow nutsedge the following spring, apply 1.33 pt/A of Medal EC in the fall after the harvest of the previous crop but before freeze-up. Fall applications of Medal EC can be surface-applied or incorporated. Restrictions: (1) Make no more than one fall application per crop. (2) Apply not more than 1.33 pt/A in a single fall preplant application. (3) Do not apply to frozen ground. (4) If a spring application is made, the combined total amount of Medal EC applied in the fall plus the spring must not exceed the maximum seasonal S-metolachlor rate for corn (3.9 pt/A depending on soil texture), or illegal residues may result.

Early Preplant Applications
A. 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 recommended rate of Medal EC (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. Note: If a spring application is made, the total rate of the fall plus spring application must not exceed the maximum total rate for corn, or illegal residues may result.

B. 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, preplant 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 postemergence application of an appropriately labeled broadleaf and/or grass weed herbicide may be used, i.e., AAtrix, Beacon®, Bicep Magnum, Bicep II Magnum®, Exceed®, Accent®, Banvel, Basagran, bromoxynil (Brominal® or Buctril®), or 2,4-D. If the postemergence treatment includes the herbicide used preplant surface-applied, do not exceed the total labeled rate for corn on a given soil texture. Observe all directions for use, precautions, and limitations on the label of the postemergent herbicide.

PREPLANT INCORPORATED OR PREEMERGENCE
Follow instructions for use of Medal EC alone under Application Procedures. On coarse soils, apply 1.0-1.33 pts./A of Medal EC 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 Medal EC. On fine soils, apply 1.33-1.67 pts./A of Medal EC if organic matter content is less than 3%, or 1.67-2.0 pts./A if organic matter content is 3% or greater.
POSTEMERGENCE OR LAY-BY
To extend the duration of weed control in corn, a maximum rate of 2.0 pts./A of Medal EC may be applied after corn emergence until the corn plants reach 40 inches in height, following any preplant surface-applied, preplant incorporated, or preemergence herbicide application, including Medal EC. For best results, applications should be made to soil free of emerged weeds and directed toward the base of corn plants in excess of 5 inches tall. The total Medal EC rate applied on corn during any one crop year should not exceed 3.9 pts./A, depending on soil texture.

Note for all applications to corn: To avoid possible illegal residues, (1) do not graze or feed forage from treated areas for 30 days following application and (2) do not harvest sweet corn ears from treated areas for 30 days following application.

PROBLEM WEED CONTROL DIRECTIONS

Shattercane, Wild Proso Millet, Woolly Cupgrass, and Eclipta – Partial Control: For more consistent partial control of shattercane, wild proso millet, woolly cupgrass, or eclipta, apply 1.0-1.33 pts./A of Medal EC preplant incorporated followed by 1.0-1.33 pts./A of Medal EC preemergence. Make the preemergence application during or after planting, but before weeds and corn emerge. Apply the 1.33 pts./A rate of Medal EC when a heavy infestation of shattercane, wild proso millet, woolly cupgrass, or eclipta is expected. A shallow cultivation may be needed to control any late emerging weeds.

Woolly Cupgrass and Wild Proso Millet Control Program: For control of these species, use the following 3-step program: (1) Apply Medal EC early preplant, preplant incorporated, or preemergence at 1.67 pts./A on medium soils and 2.0 pts./A on fine-textured soils, up to the maximum label rate. Lightly incorporate with a rotary hoe if rainfall does not occur within 5-7 days; (2) Apply a postemergence tank mix of Beacon at 0.38 oz./A or Exceed at 1 packet per 4 acres plus Accent SP at 0.33 oz./A plus 1.0 qt. of crop oil concentrate plus 1.0 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; and (3) Cultivate 14-21 days after the postemergence application.

Notes: (1) Do not apply more than the labeled application rate for a given soil texture per year, either as a single or split treatment, or illegal residues may result. (2) In corn, Medal EC may be used up to 2.6 pts./A as either a preplant surface, preplant incorporated, or preemergence treatment on soils having an organic matter content between 6% and 20%. (3) In the event of escape of annual weeds following a preplant surface, preplant incorporated, or preemergence treatment of Medal EC, follow with a postemergence application of an appropriately labeled broadleaf and/or grass weed herbicide, i.e., AAtrex, Beacon, Bicep II Magnum, Exceed, Accent, Banvel, Basagran, Brominal, Buctril, or 2,4-D. If the postemergence treatment includes the herbicide used in the earlier treatment, do not exceed the total labeled rate for corn on a given soil texture. (4) Brominal or Buctril may be applied postemergence alone or in tank mix combination with AAtrex. Do not exceed 1.2 lbs. a.i./A of AAtrex in tank mix combination with Brominal or Buctril postemergence. Refer to the AAtrex, Brominal, and Buctril labels for specific rates and precautions. (5) Do not use Medal EC on peat or muck soils.

CORN – MEDAL EC COMBINATIONS
Medal EC in any tank mixture for corn may be applied in water or fluid fertilizer before corn emerges. Use only water as a carrier when Medal EC is applied after corn emergence.

Note: For all applications to corn, (1) do not graze or feed forage from treated areas for 30 days following application, or possible illegal residues may result and (2) do not harvest sweet corn ears from treated areas for 30 days following application.

IMPORTANT FOR TANK MIXTURES WITH AATREX (OR OTHER BRANDS OF ATRAZINE) – If applying Medal EC in tank mixture with AAtrex, all the restrictions and rate limitations on the AAtrex label must be followed if more restrictive/protective than those on this label. In addition, if AAtrex is/must be applied at rates lower than those recommended on this label, broadleaf weed control may be affected. Refer to the AAtrex label for weeds controlled at the reduced rates.
Table 2: Medal EC Tank Mixtures for Corn – Additional Weeds Controlled and Special Instructions

<table>
<thead>
<tr>
<th>Special Mixing Instructions</th>
<th>Medal EC + AAatrex and/or Princep (Preplant Surface, PPI, PRE)</th>
<th>Medal EC + AAatrex (Post)</th>
<th>Medal EC + Banvel (Field Corn)</th>
<th>Medal EC + AAatrex + Lorox</th>
<th>Medal EC + AAatrex or Princep + Prowl</th>
<th>Medal EC + Marksman</th>
<th>Medal EC + Balance Pro*</th>
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<td>●</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hairy nightshade</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jimsonweed</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kochia</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lambsquarters</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Morningglory</td>
<td>●</td>
<td>●</td>
<td>O</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Mustard</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pigweed</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prickly sida</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ragweed</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Smartweed</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Velvetleaf</td>
<td>●</td>
<td>●</td>
<td>O</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>O-●</td>
</tr>
</tbody>
</table>

● = control; ○ = partial control; O-● = partial to full control depending on ratio of products used or on weed population
*Field corn only

Comments
1. Special Mixing Instructions for Medal EC + AAatrex or Princep and Prowl: (A) Fill the spray tank 1/4 full with water or fluid fertilizer and start agitation. (B) To aid compatibility, add a compatibility agent, such as Unite or X-77®, at 4.0 pts./100 gals. of spray mixture. (C) Then add the AAatrex or Princep and allow it to become dispersed. (D) Then add Medal EC and Prowl 4E. (E) Add the rest of the water.

2. Although a single formulation for AAatrex or Princep is listed in the rate tables, other formulations may be substituted, using the following formula:
   • 1.0 lb. of AAatrex Nine-O® or Princep Caliber 90® = 1.8 pts. of AAatrex 4L or Princep 4L.
3. Although directions specify AAtrex formulations in tank mixture with Medal EC, other brands of atrazine may be used. Follow the rates, recommendations, and limitations on the atrazine label.

4. See additional mixing instructions on the AAtrex label.

5. **Precaution: Do not exceed a total of 2.5 lbs. a.i. of atrazine per acre per year. However, 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.**

6. Other formulations of Lorox can be used: 1.0 lb. of Lorox DF = 1.0 pt. of Lorox L.

7. In Minimum-Tillage and No-Tillage systems, mix with Gramoxone Inteon for control of most emerged annual weeds and suppression of perennial weeds; or with Landmaster BW for suppression of emerged field bindweed and control or suppression of annual weeds; or with Touchdown brands or Roundup brands for control of most emerged annual and perennial weeds.

8. Refer to the Corn – Medal EC Combinations - Tank Mixture with AAtrex or AAtrex + 2,4-D; or AAtrex + 2,4-D + Banvel for Minimum Tillage or No-Tillage Systems section for specific directions for 2,4-D or Banvel burndown combinations with Minimum-Tillage and No-Tillage systems.

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**Notes:**

1. For all applications to corn, do not graze or feed forage from treated areas for 30 days following application and do not harvest sweet corn ears from treated areas for 30 days following application, or possible illegal residues may result. (2) When applying Medal EC in tank mixture with AAtrex, do not exceed a total of 2.5 lbs. a.i. of atrazine per acre per year. (3) Refer to Corn (All Types) – Medal EC Alone, for recommended sequential postemergence treatments if escape weeds develop.

**TANK MIXTURE WITH AATREX OR PRINCEP, OR AATREX + PRINCEP – PREPLANT SURFACE, PREPLANT INCORPORATED, OR PREEMERGENCE**

In addition to the weeds controlled by Medal EC alone, Medal EC + AAtrex or Princep, or Medal EC + AAtrex + Princep, applied preplant surface, preplant incorporated, or preemergence, also controls the following weeds: browntop panicum, cocklebur, common purslane, hairy nightshade, lambsquarters, morningglory, ragweed, smartweed, and velvetleaf.

Apply Medal EC + AAtrex or Princep, or Medal EC + AAtrex + Princep either preplant surface, preplant incorporated, or preemergence.

**Preplant Surface-Applied:** Follow instructions for use of Medal EC alone under Application Procedures and under application instructions for Medal EC alone on corn. Apply Medal EC + AAtrex or Princep, or Medal EC + AAtrex + Princep on medium soils (1.67 pts./A of Medal EC + 3.2-4.0 pts./A of AAtrex 4L or Princep 4L, or AAtrex 4L + Princep 4L combined) and on fine soils (1.67-2.0 pts./A of Medal EC + 4.0 pts./A of AAtrex 4L or 4.0-5.0 pts./A of Princep 4L, or AAtrex 4L + Princep 4L combined) in minimum-tillage and no-tillage systems in CO, IA, IL, IN, KS, KY, MN, MO, MT, ND, NE, SD, TN, WI, and WY. Apply the tank mixtures as a split or single treatment in those states and as indicated in the Medal EC Alone – Preplant Surface-Applied section of the label for corn. On coarse soils, apply 1.33 pts./A of Medal EC and 3.2 pts./A of AAtrex 4L or Princep 4L, or AAtrex 4L + Princep 4L combined.

**Preplant Incorporated or Preemergence:** Follow instructions for use of Medal EC alone under Application Procedures. Apply Medal EC + AAtrex or Princep, or Medal EC + AAtrex + Princep, using the appropriate rates from Table 3.

**Note:** Do not apply more than the labeled rate for a given soil texture per year, either as a split or single treatment, or illegal residues may result.

**Shattercane and Wild Proso Millet – Partial Control**

For more consistent partial control of shattercane or wild proso millet, where Medal EC is applied in tank mixture or sequentially with other registered corn herbicides, the following applications may be made:

- **Apply 1.0-1.33 pts./A of Medal EC + 2.0 lbs. a.i./A of AAtrex or Princep preplant incorporated, followed by 1.0-1.33 pts./A of Medal EC preemergence.** Make the preemergence application during or after planting, but before weeds and corn emerge.

- **Apply Medal EC at 1.33 pts./A alone or in tank mix combination with up to 2.0 lbs. a.i./A of AAtrex or Princep preplant incorporated. Do not exceed the total rate of triazine herbicide recommended in combination with Medal EC for corn grown on a given soil texture. Follow with a post-directed application of Evik® 80W at 2.5 lbs./A. Refer to the Evik 80W label for specific directions for the post-directed application.**
• Apply Eradicane® (or equivalent EPTC or butylate formulations) at labeled rates preplant incorporated, followed by a preemergence application of Medal EC at 1.0-1.33 pts./A. Do not use Eradicane on soils where rapid degradation has been shown to occur. Make the preemergence application during or after planting, but before weeds and corn emerge.

Precaution: When following the application regimes in numbers 1-3 above, a shallow cultivation may be needed after the preemergence or postemergence application to help control any late emerging shattercane or wild proso millet plants.

Note: Do not exceed a total of 1.9 lbs. a.i./A (2.0 pts. of Medal EC) in the preplant incorporated plus preemergence application on soils with less than 6% organic matter, or crop injury may occur.

Table 3: Medal EC + AAtrex or Princep, or Medal EC + AAtrex + Princep, Preplant Incorporated or Preemergence – Corn (All Types)

<table>
<thead>
<tr>
<th>Soil Texture</th>
<th>Broadcast Rates Per Acre</th>
<th>3% Organic Matter or Greater</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>&lt;3% Organic Matter</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Medal EC + AAtrex Nine-O* or Princep Caliber 90* or</td>
<td>Medal EC + AAtrex Nine-O** + Princep Caliber 90**</td>
</tr>
<tr>
<td>Coarse</td>
<td>0.8-1.0 pt. + 1.1-2.2 lbs.</td>
<td>1.0 pt. + 1.3-2.2 lbs.</td>
</tr>
<tr>
<td>Medium</td>
<td>1.0-1.33 pts. + 1.3-2.2 lbs.</td>
<td>1.33 pts. + 1.8-2.2 lbs.</td>
</tr>
<tr>
<td>Fine</td>
<td>1.33 pts. + 1.8-2.2 lbs.</td>
<td>1.33-1.67 pts. + 1.8-2.2 lbs.***</td>
</tr>
<tr>
<td>Muck or Peat (soils with &gt;20% organic matter)</td>
<td>DO NOT USE</td>
<td></td>
</tr>
</tbody>
</table>

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

**When using the tank mixture of Medal EC + AAtrex Nine-O + Princep Caliber 90, use equal rates of each as shown when heavy broadleaf weed infestations are expected. When heavy infestations of crabgrass or fall panicum are expected, use a 1:2 ratio of AAtrex + Princep instead of the 1:1 ratio given in Table 3. (Example: Total AAtrex Nine-O + Princep Caliber 90 = 1.2 lbs./A, use 0.4 lb. of AAtrex + 0.8 lb. of Princep, respectively.) Refer to Comment No. 2 following Table 2 for AAtrex 4L and Princep 4L conversions.

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

Weeds Controlled

<table>
<thead>
<tr>
<th>Barnyardgrass (watergrass)</th>
<th>prickly sida</th>
</tr>
</thead>
<tbody>
<tr>
<td>crabgrass</td>
<td>purslane</td>
</tr>
<tr>
<td>crowfootgrass</td>
<td>ragweed</td>
</tr>
<tr>
<td>fall panicum</td>
<td>smartweed</td>
</tr>
<tr>
<td>giant foxtail</td>
<td>velvetleaf</td>
</tr>
<tr>
<td>green foxtail</td>
<td></td>
</tr>
<tr>
<td>yellow foxtail</td>
<td></td>
</tr>
<tr>
<td>jimsonweed</td>
<td></td>
</tr>
<tr>
<td>kochia</td>
<td></td>
</tr>
<tr>
<td>lambsquarters</td>
<td></td>
</tr>
<tr>
<td>mustard</td>
<td></td>
</tr>
<tr>
<td>pigweed</td>
<td></td>
</tr>
</tbody>
</table>

Weeds Partially Controlled

<table>
<thead>
<tr>
<th>cocklebur</th>
</tr>
</thead>
<tbody>
<tr>
<td>morningglory</td>
</tr>
<tr>
<td>yellow nutsedge</td>
</tr>
</tbody>
</table>

Apply 1.0 pt./A of Medal EC + 1.3 lbs./A of AAtrex Nine-O* on coarse soils, 1.33 pts./A of Medal EC + 1.8 lbs./A of AAtrex Nine-O on medium soils, or 1.33-1.67 pts./A of Medal EC + 1.8-2.2 lbs./A** of AAtrex Nine-O on fine soils. Apply this tank mixture before grass and broadleaf weeds pass the 2-leaf stage and before corn exceeds 5 inches in height. Application to weeds larger than the 2-leaf stage will generally result in unsatisfactory control.

Lay-by: Apply to corn plants not more than 12 inches tall. Applications to corn in excess of 5 inches should be directed to the base of the corn plants; whereas, applications to corn plants less than 5 inches tall may be made over the top. Occasionally, some corn leaf burn may result, but this should not affect later growth or yield. Do not apply this postemergence tank mixture in fluid fertilizer, or severe crop injury may occur.

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

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

Tank mixtures of Medal EC + AAtrex may be applied following use of any registered preplant surface-applied, preplant incorporated, or preemergence corn herbicide, including Medal EC + AAtrex.

Note: The total Medal EC rate should not exceed 3.9 pts., nor the AAtrex rate more than 2.5 lbs. a.i./A during any one crop year, or illegal residues may result. Refer to the AAtrex label for geographic, soil-texture, and rotational restrictions.

TANK MIXTURE WITH BANVEL

Preemergence: Use this tank mixture only on field corn which is flat-planted (no furrows) in CO, IA, IL, IN, KS, MN, NE, OH, SD, and WI.

In addition to the weeds controlled by Medal EC alone, Medal EC + Banvel, applied preemergence, also controls lambsquarters, ragweed, smartweed, cocklebur*, jimsonweed*, morningglory*, and velvetleaf*.

*Partially controlled.

Apply Medal EC + Banvel preemergence. Broadcast 1.0 pt./A of Banvel with 1.33 pts./A of Medal EC on medium soils, or with 1.33-1.67 pts./A of Medal EC on fine soils. Do not apply on coarse soils or on soils with less than 2.5% organic matter. Apply this tank mixture to the soil surface at planting or after planting, but before corn emerges. Plant corn at least 1.5 inches deep and apply behind planting equipment, avoiding incorporation by the planter wheel or other seed covering device. Do not incorporate before corn emergence. If it is necessary to rotary hoe to break the soil crust, do not disturb the soil more than 1/2 inch deep.
Postemergence for Control of Pigweed (Mid-Atlantic states, including DE, MD, PA, VA, and WV): Apply 1.0-1.5 pts. of Medal EC + 0.5-1.0 pt./A of Banvel or Clarity® by ground equipment when pigweed plants are less than 3 inches tall and before corn exceeds 5 inches in height in a minimum of 20 gals. of spray per acre. Use the lower rate on coarse-textured and low organic matter soils. Use the higher rate on fine-textured and high organic matter soils.

Precautions: (1) Avoid drift to sensitive nontarget plants, such as soybeans, during application, or injury may occur. (2) Do not apply with aircraft.

TANK MIXTURE WITH AATREX OR PRINCEP + PROWL FOR PROLONGED CONTROL OF LAMBSQUARTERS AND PIGWEED IN FIELD CORN ONLY (NORTHEAST U.S., INCLUDING MI, IN, KY, AND STATES EAST OF THESE)

For prolonged control of lambsquarters and pigweed, in addition to a broad spectrum of annual broadleaf and grass weeds, Medal EC in tank mix combination with AAtrex* or Princep + Prowl 4E may be applied after planting, but before corn or weeds emerge. Apply by ground equipment in a minimum of 10 gals. of water or 20 gals. of liquid fertilizer. Apply by air in a minimum of 5.0 gals. of water. Refer to Table 3 of this label for rates of Medal EC, AAtrex, or Princep to be applied. Apply Prowl 4E according to the following rates in Table 4.

*Do not apply Medal EC in tank mix combination with AAtrex 80W + Prowl, as this combination is not compatible. Other AAtrex formulations may be used.

Mixing Instructions: See Comment No. 1 following Table 2.

Table 4: Prowl 4E – Broadcast Rates Per Acre

<table>
<thead>
<tr>
<th>Soil Texture</th>
<th>Percent Organic Matter in Soil</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Less Than 1.5%</td>
</tr>
<tr>
<td>COARSE</td>
<td>1.5-2.0 pts.</td>
</tr>
<tr>
<td>MEDIUM</td>
<td>2.0 pts.</td>
</tr>
<tr>
<td>FINE</td>
<td>2.0 pts.</td>
</tr>
</tbody>
</table>

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

TANK MIXTURE OF MEDAL EC WITH AATREX OR PRINCEP, OR AATREX + PRINCEP WITH GRAMOXONE INTEON, LANDMASTER BW, TOUCHDOWN OR ROUNDUP FOR MINIMUM-TILLAGE OR NO-TILLAGE SYSTEMS

In minimum-tillage or no-tillage systems where corn is planted directly into a cover crop, stale seedbed, established sod, or previous crop residues, the contact herbicides Gramoxone Inteon, Landmaster BW, Touchdown brands or Roundup brands should be tank mixed with Medal EC + AAtrex, Medal EC + Princep, or Medal EC + AAtrex + Princep. See Comment No. 7 following Table 2. The Medal EC, Medal EC + AAtrex or Princep, or Medal EC + AAtrex + Princep portion of the tank mixture provides preemergence control of the weeds listed on this label in the tank mixture section for Medal EC, Medal EC + AAtrex or Princep, or Medal EC + AAtrex + Princep – Preplant Surface, Preplant Incorporated, or Preemergence.

Application: Apply before, during, or after planting, but before the corn emerges. Add Gramoxone Inteon, Landmaster BW, Touchdown brands or Roundup brands and apply as directed on the product label.

Gramoxone Inteon: Apply as directed on the product label. This treatment will not control weeds taller than 6 inches.

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

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

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

On coarse soils, apply 1.0 pt./A of Medal EC with 1.3 lbs. of AAtrex Nine-O* or Princep Caliber 90*, or with 0.7 lb. of AAtrex Nine-O** + 0.7 lb. of Princep Caliber 90**. On medium soils, apply 1.33 pts./A of Medal EC with 1.8 lbs. of AAtrex Nine-O or Princep Caliber 90, or with 0.9 lb. of AAtrex Nine-O + 0.9 lb. of Princep Caliber 90. On fine soils***, apply 1.33-1.67 pts./A of Medal EC with 1.8-2.2 lbs. of AAtrex Nine-O or Princep Caliber 90, or with 0.9-1.1 lbs. of AAtrex Nine-O + 0.9-1.1 lbs. of Princep Caliber 90.

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

**When using the tank mixture of Medal EC + AAtrex Nine-O + Princep Caliber 90, use equal rates of AAtrex and Princep as shown when heavy broadleaf weed infestations are expected. When heavy infestations of crabgrass or fall panicum are expected, use a 1:2 ratio of AAtrex + Princep instead of the 1:1 ratio given. (Example: Total AAtrex Nine-O + Princep Caliber 90 = 1.8 lbs./A, use 0.6 lb. of AAtrex + 1.2 lbs. of Princep, respectively.) Refer to Comment No. 2 following Table 2 for AAtrex 4L and Princep 4L conversions.

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

TANK MIXTURE WITH AATREX; OR AATREX + 2,4-D; OR AATREX + 2,4-D + BANVEL FOR MINIMUM-TILLAGE OR NO-TILLAGE SYSTEMS

In minimum-tillage or no-tillage systems where corn is planted directly into a cover crop, stale seedbed, established sod, or previous crop residues, Medal EC applied in combination with AAtrex will kill most emerged small annual weeds. Apply Medal EC + AAtrex before, during, or after planting, but before corn emerges, according to the rates in Table 3.

Where heavy crop residues exist, add 0.8-1.6 pts./A of an appropriately labeled 3.8 lbs. a.i./gal. of 2,4-D amine (such as Weedar 64, Weedar 64A, DMA-4 Herbicide, Weedone® 638, or Formula 40) to the spray tank last and apply in a minimum of 25 gals. of 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 recommended rate, or add crop oil concentrate plus 28% liquid nitrogen (or equivalent). Apply before weeds exceed 3 inches in height. If alfalfa is present, add Banvel to the spray mixture at 0.33-0.5 pt./A and apply before alfalfa exceeds 6 inches in height.

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

TANK MIXTURE WITH MARKSMAN IN CONSERVATION TILLAGE – FIELD AND SILAGE CORN

In conservation tillage systems where corn is planted directly into a cover crop or previous crop residue, Medal EC + Marksmen will kill most emerged small annual weeds. Apply Medal EC + Marksmen 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 inches in height or when very dry conditions exist, add Gramoxone Inteon at its standard rate. Medal EC + Marksmen may be applied postemergence to corn less than 3 inches 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. Do not apply Gramoxone Inteon in suspension-type liquid fertilizer or use on emerged corn.

Refer to the Marksmen label and follow all directions, limitations, precautions, and information regarding application and use in corn.
TANK MIXTURE WITH BALANCE PRO – FIELD CORN ONLY

Medal EC and Balance PRO have a complementary crop response and weed control profile which allows various tank mix rate combinations to be considered. The addition of Balance PRO will improve the control of certain problem weeds including Texas panicum, woolly cupgrass, and wild proso millet. Medal EC improves both the duration and spectrum of annual grass and small seeded broadleaf weed control, in particular foxtails (yellow foxtail), witchgrass, and yellow nutsedge.

To reduce the risk of an adverse crop response, the Balance PRO label does not allow applications to coarse-textured soils with less than 1.5% organic matter and warns about applications to all soils with less than 1.5% organic matter or with pH greater than 7.5, as well as applications made to areas in fields with clay knolls, eroded hillsides, and exposed subsoil. Medal EC has no adverse crop response warnings or use restrictions.

Listed below are compensating rate options for combinations of Medal EC and Balance PRO, i.e. higher rates of Medal EC are combined with lower rates of Balance PRO, and vice versa. Select a rate option for Medal EC plus Balance PRO by weighing the intensity of problem weed pressure (population presence and density) and your acceptance for risk of an adverse crop response. For example, where Texas panicum, woolly cupgrass, or wild proso millet are a primary target weed, use a tank mix combination with a higher Balance PRO rate for the given soil type.

Where your acceptance of an adverse crop response risk is low and/or a more general weed spectrum is targeted (especially yellow foxtail, witchgrass or yellow nutsedge), use a tank mix combination with a higher Medal EC rate for the given soil type. Where a target weed is listed as controlled on only one product label, do not apply a rate of that product below what is recommended for that weed on the individual product label, or unacceptable control may result. Follow all other directions for use, rate limitations, precautions and restrictions on both the Medal EC and Balance PRO product labels.

Medal EC plus Balance PRO tank mix rate options when applied preplant (incorporated or surface applied) up to 7 days before planting or preemergence in field corn:

For coarse-textured soils, where 1.5 or 1.88 oz./A of Balance PRO is used, 1.0-1.33 pts./A of Medal EC may be applied. Do not use Balance PRO on coarse-textured soils with less than 1.5% organic matter.

For medium-textured soils, where 1.5 oz./A of Balance PRO is used, rates as low as 1.33 pts./A of Medal EC may be applied. Where 1.88 or 2.25 oz./A of Balance PRO is used, rates as low as 1.0 pts./A of Medal EC may be applied. Medal EC can be used in combinations with Balance PRO at rates up to 1.67 pts./A on medium-textured soils.

For fine-textured soils, where 1.5 oz./A of Balance PRO is used, rates as low as 1.33 pts./A of Medal EC may be applied if the soil organic matter is less than 3% - if the soil organic matter content is 3% or greater, 1.67 pts./A of Medal EC should be applied. Where 1.88 or 2.25 oz./A of Balance PRO is used, rates as low as 1.33 pts./A of Medal EC may be applied. Where 3.0 oz./A or more of Balance PRO are used, rates as low as 1.0 pts./A of Medal EC may be applied. Medal EC can be used in combinations with Balance PRO at rates up to 2.0 pts./A on fine-textured soils if the soil organic matter content is 3% or greater.

TANK MIXTURES FOR POSTEMERGENCE SALVAGE WEED CONTROL IN FIELD CORN ONLY

For postemergence control of weeds in specific types of field corn, the Medal EC combinations listed below may be used. Full season weed control from early preplant, preplant incorporated, or preemergence treatments can lead to maximum yield potential under competition-free conditions. However, if control of emerged weeds is needed, a postemergence program listed below can be applied to provide residual control for the remainder of the season.

Notes: (1) Follow all label directions, instructions, precautions, and limitations for each product used. (2) Do not use fluid fertilizer with these mixtures or corn injury may occur. (3) For each tank mixture with Medal EC, apply only to the specific field corn type specified on the tank mix product label. (4) In-row weed control may be reduced because of lack of coverage when applied to corn over 4 inches tall.
Medal EC + Liberty Herbicide or Ignite® 280 SL Herbicide: Postemergence Use in LibertyLink® Corn or Corn Warranted by Bayer CropScience as Being Tolerant to Liberty Herbicide or Ignite 280 SL Herbicide

These tank mixtures can be applied postemergence to weeds and corn from seed designated as LibertyLink or corn warranted by Bayer CropScience as being tolerant to Liberty Herbicide or Ignite 280 SL Herbicide. Liberty provides postemergence control of a broad spectrum of grass and broadleaf weeds and the Medal EC provides residual control of grasses and certain broadleaf weeds listed in the label section Medal EC Applied Alone – Weeds Controlled. Refer to the Medal EC Alone – Preplant Incorporated or Preemergence section and use the minimum rate per soil texture and organic matter classification for season-long residual control from this tank mix combination with Liberty. Refer to the Liberty Herbicide or Ignite 280 SL Herbicide labels for the postemergence application rates according to weed species and their maximum height at the time of postemergence application. Where multiple weed species are present, use the highest Liberty rate recommended to control the species and growth stages present.

Follow all applicable use directions, limitations, precautions, and information regarding application to corn on the Medal EC, Liberty Herbicide, or Ignite 280 SL Herbicide labels. Where difficult species and/or severe weed populations are expected, use the maximum rate where rate ranges are listed.

Medal EC + Touchdown Brands or Roundup Brands for Postemergence Application to Glyphosate-Tolerant Corn (e.g., Roundup Ready® or Agrisure™ GT)

The tank mixture of Medal EC + Touchdown or Roundup brands can be applied postemergence to weeds and to corn designated as glyphosate-tolerant. Application may be applied postemergence to glyphosate-tolerant corn from emergence until corn reaches 30 inches tall or the V8 stage (8 leaves with collars), whichever comes first. This mixture will provide postemergence control of weed species on the Touchdown brand or Roundup brand label and residual control of weed species on the Medal EC label. Use the minimum Medal EC rate postemergence with Touchdown or Roundup in glyphosate-tolerant corn as specified in the Corn - Medal EC Alone – Preplant Incorporated or Preemergence section of this label according to soil texture and organic matter. Refer to the Touchdown brand or Roundup brand label and follow appropriate use directions, application procedures, precautions, and limitations. Refer to the Touchdown brand or Roundup brand label for directions for control of problem species.

Follow all applicable use directions, limitations, precautions, and information regarding application to corn on the Medal EC and Touchdown brand or Roundup Ultra brand labels, and on the Supplemental Labeling of Roundup Ultra for Postemergence Application to Corn with the Roundup Ready Gene. Where difficult species and/or severe weed populations are expected, use the maximum rate where rate ranges are listed.

Medal EC + Touchdown Brands or Roundup Brands + AAtrex for Postemergence Application to Glyphosate-Tolerant Corn (e.g., Roundup Ready or Agrisure GT)

The tank mixture of Medal EC + AAtrex + Touchdown brands or Roundup brands can be applied postemergence to weeds and to corn designated as glyphosate-tolerant. Application may be applied postemergence to glyphosate-tolerant corn from emergence up to 12 inches in height. This mixture will provide postemergence control of weed species on the Touchdown brand or Roundup brand label and residual control of weed species on the Medal EC + AAtrex label. Use the minimum Medal EC + AAtrex rate postemergence with Touchdown or Roundup in glyphosate-tolerant corn as specified in the Corn – Medal EC Combinations – Tank Mixture With AAtrex or Princep, or AAtrex + Princep – Preplant Incorporated or Preemergence section and Table 3 of this label according to soil texture and organic matter.

Follow all applicable use directions, limitations, precautions, and information regarding application to corn on the Medal EC, AAtrex, and Touchdown brand or Roundup brand labels for application to glyphosate tolerant corn. Where difficult species and/or severe weed populations are expected, use the maximum rate where rate ranges are listed.
COTTON – MEDAL EC ALONE

Application: Apply Medal EC preemergence only in Area 1* at the rate of 0.5-1.0 pt./A on sandy loams, 0.66-1.33 pts./A on medium soils, or 1.0-1.33 pts./A on fine soils. Apply Medal EC preplant incorporated or preemergence 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 Medal EC postemergence to cotton and preemergence to weeds at 0.5-1.33 pts./A, according to the state rate limitations in the following Postemergence section. Do not use on sands and loamy sand.

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

Fall Application for Italian Ryegrass Control: Medal EC may be applied for residual control of glyphosate-resistant Italian ryegrass (Lolium multiflorum). Apply Medal EC at 1.33-1.67 pints/Acre in the fall (September 1 – December 1) after harvest of the previous crop and prior to Italian ryegrass emergence. Use the lower Medal EC rate for coarse textured soils and the higher rate for fine-textured soils. A tillage operation may precede the application. Do not incorporate to a depth greater than 2-3 inches if tillage follows the application of Medal EC. For fall applications after emergence of glyphosate-resistant Italian ryegrass, Gramoxone Inteon can be tank mixed with Medal EC to control emerged ryegrass. Refer to the Gramoxone Inteon label for specific rates, application instructions and restrictions. Other registered herbicides may be tank mixed with Medal EC for control or improved control of other weeds present at the time of application.

Precautions: (1) Do not apply Medal EC to frozen ground. (2) If a spring application is made, the combined total amount of Medal EC applied in the fall plus the spring must not exceed the maximum seasonal S-metolachlor rate for cotton (2.6 pt/A, depending on soil texture), or illegal residues may result.

Preplant 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 preplant incorporated application if furrow irrigation is used or when a period of dry weather after application is expected. Where furrow irrigation is used, wet the top of the bed for best results. If the crop is to be planted on beds, apply and incorporate after bed formation. Cotton should be planted below the zone of incorporation; i.e., at least 1 inch on fine soils and 1.5 inches on coarse and medium soils. If incorporated prior to planting, use a planter that will result in a minimum of soil disturbance.

Note: For best control of yellow nutsedge and suppression of seedling johnsongrass, apply Medal EC preplant incorporated at the maximum rate for the soil texture, whether applied alone or mixed with Caparol 4L.

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

Postemergence: Apply Medal EC broadcast over-the-top or directed to the soil surface according to the rate limitations listed below by state. Over-the-top postemergence application may be made not later than 100 days before harvest, and directed-postemergence application may be made not later than 80 days before harvest. Application before weeds emerge or after clean cultivation to remove existing weeds is necessary since Medal EC will not control emerged weeds. Medal EC postemergence may be applied over any previous registered herbicide treatment. In sprinkler-irrigated areas, sprinkler irrigate after application with 1/2-1 inch of water (1/2 inch on coarse-textured soils to 1 inch on fine-textured soils) to incorporate Medal EC. In furrow-irrigated areas, apply Medal EC, incorporate with a rolling cultivator or similar implement that provides uniform shallow incorporation (2 inches or less), and then irrigate. In nonirrigated areas, if at least 1/2 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 Medal EC.

VA, NC, SC, GA, FL, and AL: Apply Medal EC postemergence at 1.0-1.33 pts./A.

TN, AR, KS, MS, MO, and LA: Apply Medal EC postemergence at 0.5-1.33 pts./A.

TX, OK, NM, AZ, CA, and Clay Soils in AR: Apply Medal EC postemergence at 1.0-1.33 pts./A 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 Medal EC are effective when used as part of the weed control program. Apply as a preplant incorporated or preemergence treatment and follow with an application postemergence to cotton before weeds emerge or after clean cultivation to remove existing weeds, since Medal EC will not control emerged weeds. Apply Medal EC postemergence over a previous preplant or preemergence Medal EC application as shown in the following table.

<table>
<thead>
<tr>
<th>State</th>
<th>Preplant Incorporated or Preemergence Pts./A</th>
<th>Postemergence Pts./A</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS, LA, TN, AR, KS, MO</td>
<td>0.5-1.33 (Preemergence Only)</td>
<td>0.5-1.33</td>
</tr>
<tr>
<td>TX, OK, NM</td>
<td>1.0-1.33</td>
<td>1.0-1.33 before August 1</td>
</tr>
<tr>
<td>NC, VA</td>
<td>1.0-1.33 (Preemergence Only)</td>
<td>1.0-1.33</td>
</tr>
</tbody>
</table>

In sprinkler-irrigated areas, sprinkler irrigate after application with 1/2-1 inch of water (1/2 inch on coarse-textured soils to 1 inch on fine-textured soils) to incorporate Medal EC. In furrow-irrigated areas, apply Medal EC, incorporate with a rolling cultivator or similar implement that provides uniform shallow incorporation (2 inches or less), and then irrigate. In nonirrigated areas, if at least 1/2 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 Medal EC.

Notes: For best control of yellow nutsedge and suppression of seedling johnsongrass, apply Medal EC preplant incorporated, preemergence, or postemergence to cotton and preemergence to weeds at the maximum rate for the soil texture, whether applied alone or in combinations. Do not apply more than a total of 2.0 pts./A on coarse soils or 2.6 pts./A of Medal EC on medium and fine soils during a growing season. These treatments may be applied over previous registered herbicide treatments.

Precautions: To avoid crop injury, (1) Do not apply Medal EC on sand or loamy sand soils, or in areas where water is likely to “pond” over the bed; (2) To avoid concentration in the seed furrow, do not make broadcast applications of Medal EC to cotton planted in furrows more than 2 inches deep. Band applications may be made to cotton planted in furrows deeper than 2 inches, but band width should not exceed the width of the bottom of the furrow; (3) In furrow-irrigated cotton, to avoid concentration in the furrow and potential injury, do not apply Medal EC postemergence until after first "knifing" or cultivation to level soil surface. (4) Do not apply over-the-top in fluid fertilizer or any other adjuvant, surfactant, oil, or other pesticide not recommended in the cotton section of this label, or injury may occur; and (5) Do not apply on Taloka silt loam. (6) Do not use in Gaines County, TX.

Note: Do not graze or feed forage or fodder from cotton to livestock, or illegal residues may result.

COTTON – MEDAL EC COMBINATIONS

TANK MIXTURE WITH CAPAROL 4L
Medal EC tank mixes with Caparol 4L may be applied preplant incorporated or preemergence in water or fluid fertilizer. When fluid fertilizer is used as a carrier for Medal EC, either alone or in combination with Caparol 4L, mix only the amount that will be sprayed in one operation. These mixtures should not be allowed to stand without agitation. Only water may be used as a carrier for postemergence-directed application.

In addition to those weeds controlled by Medal EC alone, Medal EC + Caparol 4L, applied preplant incorporated or preemergence, also controls the following weeds: junglerice, wild oats, annual mornnglory, groundcherry, hairy nightshade, lambsquarters, malva, mustard, prickly sida (teaweed), purslane, ragweed, and shallow-germinating seedlings of cocklebur and coffeeeweed. As a postemergence-directed application, Caparol provides postemergence control and residual control of weeds on its label, while Medal EC provides residual control of weed species on its label. Medal EC will not control emerged weeds.
Preplant Incorporated or Preemergence: Apply Medal EC + Caparol 4L, either preplant incorporated or preemergence, using the appropriate rate from Table 5. Cotton should be planted below the zone of incorporation; i.e., at least 1.0 inch on fine soils and 1.5 inches on coarse and medium soils. If incorporated before planting, use a planter that will result in a minimum of soil disturbance.

Table 5: Medal EC + Caparol 4L – Cotton (NM, OK, TX)

<table>
<thead>
<tr>
<th>Use Areas</th>
<th>Soil Texture</th>
<th>Broadcast Rates Per Acre</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Medal EC</td>
</tr>
<tr>
<td>ALL</td>
<td>Sand, loamy sand</td>
<td>DO NOT USE</td>
</tr>
<tr>
<td>OK, and Blacklands and Gulf Coast of TX</td>
<td>Loams</td>
<td>0.8-1.33 pts.</td>
</tr>
<tr>
<td>Rio Grande</td>
<td>Clays</td>
<td>1.33 pts.</td>
</tr>
<tr>
<td>Valley of TX</td>
<td>Loams</td>
<td>0.8-1.33 pts.</td>
</tr>
<tr>
<td>NM; High Plains, Rolling Plains, Edwards Plateau of TX; and Southwest TX</td>
<td>Clays</td>
<td>1.33 pts.</td>
</tr>
<tr>
<td></td>
<td>Sandy loam</td>
<td>0.8-1.0 pt.</td>
</tr>
<tr>
<td></td>
<td>Loams</td>
<td>0.8-1.33 pts.</td>
</tr>
<tr>
<td></td>
<td>Sandy clay loams</td>
<td>1.33 pts.</td>
</tr>
<tr>
<td></td>
<td>Other clay soils</td>
<td>1.33 pts.</td>
</tr>
</tbody>
</table>

Postemergence-Directed (AR, AZ, CA, LA, MS, NM, OK, TN, TX, and MO): Medal EC may be tank mixed with Caparol 4L in water and applied postemergence-directed in cotton for control of emerged weeds listed on the Caparol 4L label and residual preemergence control of weeds controlled by Medal EC and Caparol 4L. Or application may be made after cultivation for residual preemergence control. These treatments may be applied over previous registered treatments, including Medal EC, provided the maximum label rate of any product is not exceeded. Do not apply over-the-top of cotton, or injury may occur.

Apply Medal EC + Caparol 4L in a minimum of 20 gals. of spray volume per acre. Follow the directions, limitations, and precautions on the Caparol 4L label when Caparol is applied as a postemergence-directed application. Refer to the directions, limitations, and precautions for use of Medal EC under the Cotton – Medal EC Alone – Postemergence section.

Precautions:
1. To avoid concentration in the seed furrow, do not make broadcast applications of Medal EC + Caparol 4L to cotton planted in furrows more than 2 inches deep. Band applications may be made to cotton planted in furrows deeper than 2 inches, but band width should not exceed the width of the bottom of the furrow. To avoid crop injury. (2) Do not apply on sand or loamy sand soils, or in areas where water is likely to “pond” over the bed; (3) Do not apply in cut areas of newly leveled fields, or in areas of excess salt; (4) Do not apply to glandless cotton varieties; and (5) Do not apply on Taloka silt loam. (6) Do not use in Gaines County, TX.

Note: Do not graze or feed forage or fodder from cotton to livestock, or illegal residues may result.

Refer to the Caparol 4L label for further instructions and limitations.

TANK MIXTURE WITH COTORAN DF

Medal EC may be applied in tank mixture with Cotoran DF preemergence for control of those weeds controlled by Medal EC alone and those as listed on the Cotoran DF 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 crop emerge, using the appropriate rates from Table 6. The tank mixture may be applied postemergence to cotton, but preemergence to weeds, or it may be applied postemergence to both cotton and broadleaf weeds for control of weeds on the Cotoran label. Apply as a directed, semi-directed, or over-the-top spray. Medal EC will not control emerged weeds, but will provide preemergence control of species on its label.
**Mixing Instructions:** Incompatibility may occur when tank mixing Medal EC and Cotoran DF. To help overcome this condition, fill the spray tank 1/4 full with water or fluid fertilizer and start agitation, add the Cotoran DF and allow it to become dispersed. Add X-77 at 0.5% volume/volume final spray (4.0 pts./100 gals.), then add the Medal EC 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 postemergence applications.

**Table 6: Medal EC + Cotoran DF – Cotton**

<table>
<thead>
<tr>
<th>Soil Texture</th>
<th>Broadcast Rates Per Acre</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Medal EC (pts.)</td>
<td>Area 1*</td>
<td>Area 2**</td>
</tr>
<tr>
<td>Sand, loamy sand</td>
<td>DO NOT USE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sandy loam</td>
<td>0.5-1.0</td>
<td>0.8-1.0</td>
<td>1.2</td>
</tr>
<tr>
<td>Loam, silt loam, silt</td>
<td>0.66-1.33</td>
<td>1.0-1.33</td>
<td>1.2-1.9</td>
</tr>
<tr>
<td>Fine soil</td>
<td>1.0-1.33</td>
<td>1.33</td>
<td>1.9-2.4</td>
</tr>
</tbody>
</table>

*Area 1=AR, LA, Bootheel of MO and TN
**Area 2=Eastern OK, Gulf Coast, Rio Grande Valley, and Eastern TX
***When using Cotoran 4L, use equivalent rates. Multiply lbs. of Cotoran DF by 1.7 to get pts. of Cotoran 4L.

**Postemergence:** This tank mixture may be applied postemergence to cotton, but preemergence to weeds or postemergence to both cotton and weeds for control of weeds on the Cotoran label. Apply as a directed, semi-directed, or over-the-top spray. Medal EC will not control emerged weeds, but will provide preemergence control of species on its label. Where rate ranges are given for Cotoran DF, use the higher rate when applying postemergence to weeds that are 2 inches or less. These treatments may be applied over previous registered treatments, including Medal EC, provided the maximum label rate of any product is not exceeded.

**Precautions:** (1) Do not apply Medal EC + Cotoran on sand or loamy sand soils, or in areas where water is likely to “pond” over the bed, or crop injury may occur. (2) To avoid concentration in the seed furrow, do not make broadcast applications of Medal EC + Cotoran to cotton planted in furrows more than 2 inches deep. Band applications may be made to cotton planted in furrows deeper than 2 inches, but band width should not exceed the width of the bottom of the furrow. (3) The use of Cotoran following the use of a systemic insecticide at planting may result in crop injury. (4) Do not use on Taloka silt loam, or crop injury may occur. (5) Do not use in Gaines County, TX.

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

**Note:** To avoid possible illegal residues, do not feed treated forage or gin trash to livestock, or graze treated areas.

**TANK MIXTURE OF MEDAL EC OR MEDAL EC + COTORAN WITH GRAMOXONE INTEON, TOUCHDOWN BRANDS OR ROUNDUP BRANDS FOR MINIMUM-TILLAGE OR NO-TILLAGE SYSTEMS**

In minimum-tillage or no-tillage systems where cotton is planted directly into a cover crop, stale seedbed, or previous crop residues, the contact herbicides Gramoxone Inteon, Touchdown brands or Roundup brands may be added to a tank mix of either Medal EC or Medal EC + Cotoran. When used as directed, the Gramoxone Inteon portion of the tank mixture controls most emerged weeds and suppresses many perennial weeds. Touchdown or Roundup combinations will control emerged annual and perennial weeds when applied as directed on the Touchdown or Roundup label. The Medal EC and Medal EC + Cotoran portion of the tank mixture provides preemergence control of the weeds listed on this label in the Medal EC and Medal EC + Cotoran sections, respectively.

Refer to the label of each product used in combination and observe the planting details, information regarding application, geographical restrictions, and all other precautions and limitations. Refer to **Mixing Instructions** under **Tank Mixture with Cotoran DF** section.
Application: Apply before, during, or after planting, but before the cotton emerges. Apply Medal EC at 0.8-1.0 pt./A on sandy loams, medium-, and fine-textured soils. Refer to Table 6 for the Cotoran DF rates.

Gramoxone Inteon: Apply as directed on the product label. This treatment will not control weeds taller than 6 inches.

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

Touchdown Brands or Roundup Brands: See the Touchdown or Roundup label for weeds controlled, recommended rates, and other use directions.

Note: Do not apply Medal EC + Cotoran 4L + Roundup in tank mixture because of compatibility problems.

Apply in 20-60 gals. of water or fluid fertilizer per acre with ground equipment.

Precautions: (1) If heavy rain occurs soon after application, crop injury may result, especially in poorly drained areas where water stands for several days, or where the seeding slit has not been properly closed. (2) Refer to the Cotoran labels and the Tank Mixture with Cotoran DF section of this label for further instructions, precautions, and limitations. (3) Do not use in Gaines County, TX.

TANK MIXTURE WITH MSMA, MSMA + CAPAROL, OR MSMA + COTORAN
Medal EC may be tank mixed with MSMA in water and applied postemergence-directed for control of emerged weeds listed on the MSMA product label and residual preemergence control of weeds controlled by Medal EC. The addition of Caparol or Cotoran will add control of weed species on their respective labels.

Postemergence-Directed (AL, AR, AZ, CA, FL, GA, LA, MS, NC, NM, OK, SC, TN, TX, VA, and Bootheel of MO): Apply Medal EC + MSMA postemergence-directed to cotton at least 3 inches tall according to the directions, limitations, and precautions on the MSMA product label, as well as the directions, limitations, and precautions for use of Medal EC in the section for Cotton – Medal EC Alone – Postemergence. Do not apply after first cotton bloom. These treatments may be applied over previous registered treatments, including Medal EC, provided the maximum label rate of any product is not exceeded. Cotoran or Caparol may be added to the Medal EC + MSMA tank mixture according to the respective label directions for application to cotton at least 3 inches tall. When these mixtures are used, follow the mixing instructions for Medal EC + Caparol or Cotoran and then add the MSMA product.

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

TANK MIXTURE WITH TREFLAN FOR POST-DIRECTED FOLLOWED BY SOIL INCORPORATION APPLICATIONS
Medal EC may be applied as a tank mixture with Treflan in cotton for improved late-season weed control when used as an incorporated layby type application. This combination may be applied after the cotton is at least 3 inches tall and has reached the 4 true-leaf stage. Make the application directed to the soil surface and away from the crop foliage. Incorporate using a sweep or rolling type cultivator to provide uniform and shallow mixing into the top 2 inches of soil. Refer to each product label for the appropriate application rates by soil type and for this application timing -- and follow all product use limitations and restrictions.

TANK MIXTURE WITH TOUCHDOWN BRANDS OR ROUNDUP BRANDS FOR USE ON ROUNDUP READY COTTON ONLY
Apply Medal EC as a tank mixture with Touchdown or Roundup in water postemergence over-the-top or postemergence-directed for control of emerged weeds listed on the Touchdown or Roundup labels and for residual preemergence control of weeds listed on the Medal EC label. See the Cotton – Medal EC Alone – Postemergence section of this label for rates and timings of Medal EC and follow the Touchdown or Roundup label for their respective rates, application method, and application timing restrictions. Do not add additional spray adjuvants, surfactants, fertilizer additives, or pesticides to this tank mixture if applied postemergence over-the-top, or unacceptable injury may occur. Refer to the Touchdown brand or Roundup brand label and follow appropriate use directions, application procedures, precautions, and limitation.
Precaution: Do not apply this tank mixture postemergence to any cotton variety unless it is designated Roundup Ready and unless the Touchdown or Roundup formulation being used is registered for postemergence use in Roundup Ready Cotton. Postemergence 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. Do not apply Touchdown or Roundup postemergence over-the-top to cotton past the growth stage limit specified on their respective labels. Do not use on sand or loamy sand soils in Gaines County, TX.

**SOYBEAN, IMMATURE SEED**

Medal EC may be applied preplant or preemergence for the control or suppression of grass and small seeded broadleaf weeds in immature-seed soybean or other food-grade soybeans. For specific rates, see the rate table listed below.

**Preplant Surface-Applied:** For minimum-tillage or no-tillage systems only, Medal EC alone may be applied up to 45 days before planting. Use only split applications for treatments made 30-45 days before planting, with 2/3 the recommended broadcast rate for the crop and soil texture applied initially and the remaining 1/3 applied at planting. Treatments less than 30 days before planting may be made either as a split or a single application. If weeds are present at the time of treatment, apply in a tank mixture combination with a contact herbicide (for example, Gramoxone Inteon, Touchdown, or Roundup). Observe directions for use, precautions, and restrictions on the label of the contact herbicide. To the extent possible, do not move treated soil out of the row or move untreated soil to the surface during planting, or weed control will be diminished.

**Preplant Incorporated:** Apply Medal EC 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 preplant 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 Medal EC after bed formation, unless specified otherwise.

**Preemergence:** Apply Medal EC during planting (behind the planter) or after planting, but before weeds emerge.

### Medal EC Broadcast Rates Per Acre

<table>
<thead>
<tr>
<th>Soil Texture</th>
<th>Percent Organic Matter in Soil</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Coarse</td>
<td>&lt; 3%</td>
<td>1 - 1.33 pt</td>
<td>1.33 pt</td>
</tr>
<tr>
<td>Medium</td>
<td>≥ 3%</td>
<td>1.33 - 1.67 pt</td>
<td>1.33 - 1.67 pt</td>
</tr>
<tr>
<td>Fine</td>
<td>1.67 - 2.0 pt</td>
<td>1.67 - 2.0 pt</td>
<td></td>
</tr>
</tbody>
</table>

Precautions: (1) Medal EC will not control emerged weeds. (2) Do not cut for hay within 120 days following a Medal EC application. (3) Do not use for forage within 60 days following a Medal EC application. (4) Do not apply more than 2.0 pt/A of Medal EC during any one crop year.

### GRASSES GROWN FOR SEED (ID, OR, WA) – MEDAL EC APPLIED ALONE

To control weeds and volunteer grasses in established grasses grown for seed, apply Medal EC to established stands of tall fescue, orchardgrass, perennial ryegrass, fine fescue, bentgrass, and Kentucky bluegrass just before, during, or immediately following the first fall rains or just before or during a late summer or early fall irrigation, but before target grasses emerge. The seed crop must have had one seed harvest or been established at least one year. The postharvest residue (straw) should be evenly spread, removed, or burned before applying Medal EC. Rainfall or irrigation is required after application and before weed emergence for best control. Medal EC will provide preemergence control/suppression of volunteer seedlings of perennial ryegrass, fine fescue spp., tall fescue, orchardgrass, bentgrass and Kentucky bluegrass. Medal EC will control those weed species listed in the Medal EC Alone section of the Medal EC label and will suppress or control rattail fescue, annual bluegrass, Italian ryegrass, California brome, downy brome, and roughstalk bluegrass.
Apply Medal EC by ground equipment in a minimum of 10 gallons of water per acre using the rate listed below according to grass species.

<table>
<thead>
<tr>
<th>Established Grass Crop Grown for Seed</th>
<th>Pts./A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fine fescue spp.</td>
<td>1.0</td>
</tr>
<tr>
<td>Perennial ryegrass</td>
<td>1.0</td>
</tr>
<tr>
<td>Bentgrass</td>
<td>1.0-1.33</td>
</tr>
<tr>
<td>Kentucky bluegrass</td>
<td>1.0-1.33</td>
</tr>
<tr>
<td>Orchardgrass</td>
<td>1.0-1.33</td>
</tr>
<tr>
<td>Tall fescue</td>
<td>1.0-1.33</td>
</tr>
</tbody>
</table>

Precautions: (1) Apply Medal EC only once per crop year. (2) Do not apply after the 15th of November or poor control may result. (3) Tank mixtures with other pesticides, or the addition of an adjuvant, can increase the risk of crop injury. (4) Application to perennial ryegrass and fine fescue stands under stress may cause crop injury. (5) If weed escapes occur following a Medal EC application, an application of a postemergence herbicide may be necessary to control escapes. When making such an application, follow all directions, precautions and limitations on the label of the postemergence herbicide. (6) Control may be decreased if excessive straw from the previous harvest is present at application and/or insufficient rain fall/irrigation occurs.

Notes: To avoid possible illegal residues: (1) Do not graze forage regrowth for 60 days following application west of the Cascades. (2) In areas east of the Cascades, do not graze forage regrowth for 150 days following application. (3) Hay may be harvested anytime between seed harvest and the next application of S-metolachlor.

HORSERADISH

Apply a single application of Medal EC at a broadcast rate of 1.0-1.33 pt./A to the soil surface after planting, but before weeds or crop emergence (i.e., preemergence). Use lower rates on soils relatively coarse-textured and higher rates on fine-textured soils. A band application may also be used, applying proportionally less spray mixture on the area actually treated. Medal EC will not control emerged weeds. Control emerged weeds with an appropriate registered foliar herbicide or by mechanical means.

Restrictions: (1) Make only one application of Medal EC per crop. (2) Do not apply more than 1.33 pt./A of Medal EC per crop. (3) Harvest horseradish at normal timing.

PEANUTS – MEDAL EC ALONE

Apply Medal EC, either preplant incorporated, postplant incorporated, preemergence, or lay-by, using the appropriate rate specified below. Preplant Incorporated or Preemergence: Follow instructions for use of Medal EC alone under Application Procedures. Postplant Incorporated: Apply and shallowly incorporate Medal EC 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 Medal EC to the soil immediately after the last normal cultivation.

Apply Medal EC alone, preplant incorporated, postplant incorporated, preemergence, or lay-by, at a broadcast rate of 1.0-1.33 pts./A in the Southeast* and 0.8-1.33 pts./A in NM, OK, and TX.

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

Notes: (1) Medal EC alone may be applied as directed after any of the following preplant incorporated herbicides when used according to their label recommendations: Balan at 3.0-4.0 qts./A; Treflan E.C. at 1.0 pt./A; Sonalan at 1.25-3.0 pts./A; Pursuit at 0.25 pt./A; or Prowl at 1.0-2.0 pts./A. (2) Do not graze or feed peanut forage or fodder to livestock for 30 days following application, and (3) Do not apply within 90 days of harvest, or illegal residues may result.
PEANUTS – MEDAL EC COMBINATIONS

TANK MIXTURE WITH BALAN L.C.
Medal EC + Balan tank mixture applied preplant incorporated controls those weeds listed under Medal EC Applied Alone and those weeds as listed on the Balan label.

Apply 1.0-1.33 pts./A of Medal EC + 3.0-4.0 qts./A of Balan in a minimum of 10 gals. of spray volume per acre for ground application or in a minimum of 5.0 gals. of spray volume per acre for aerial application. Follow the recommended procedures for Balan on the Balan label for soil preparation and incorporation of this tank mix. Apply and incorporate Medal EC + Balan up to 14 days prior to planting.

Note: Follow all restrictions and precautions on the Balan label.

Multiple Applications: Where weed pressure is heavy or where species difficult to control are expected, Medal EC is most effective when used as follows:

Southeast Only (AL, FL, GA, NC, SC, VA)
Preplant Incorporated: Apply Medal EC preplant incorporated as directed under Peanuts – Medal EC Alone or apply Medal EC + Balan preplant incorporated as directed previously in this section. Refer to the respective section for weeds controlled.

OR
Preemergence before “ground cracking”: Apply Medal EC any time from preemergence up to “ground cracking” at 1.0-2.0 pts./A for extended control of weeds not yet emerged. Refer to the Medal EC Applied Alone section for a list of weeds controlled.

Follow the PPI or PRE application by:

Lay-by: Apply Medal EC at lay-by as directed under Peanuts – Medal EC Alone. Use only when late germinating weeds are expected to be a problem. Refer to the Medal EC Applied Alone section for a list of weeds controlled.

Notes: (1) Do not apply more than the equivalent of 2.67 lbs. of active ingredient of Medal EC per acre during any one year, or illegal residues may result. If Dual II Magnum is used as a sequential treatment, the lbs. of active ingredient (1.0 pt. = 0.95 lb.) plus the lbs. of active ingredient of Medal EC should not exceed 2.67 lbs. Do not use Dual II Magnum, or Dual IIG Magnum after peanuts have emerged. (2) Do not graze or feed peanut forage or fodder to livestock for 30 days following application, and (3) Do not apply within 90 days of harvest, or illegal residues may result.

Southwest Only (NM, OK, TX)
1st Application: Apply Medal EC preplant incorporated or preemergence or at-cracking as directed previously in this section. Refer to the respective section for weeds controlled.

2nd Application: Apply Medal EC at lay-by as directed under Peanuts – Medal EC Alone on that label. Use only when late germinating weeds are expected to be a problem. Refer to the Medal EC Applied Alone section for a list of weeds controlled.

Notes: (1) Do not apply more than the equivalent of 2.67 lbs. of active ingredient of Medal EC per acre during any one year, or illegal residues may result. If Dual II Magnum® is used as a sequential treatment, the lbs. of active ingredient (1.0 pt. = 0.95 lb.) plus the lbs. of active ingredient of Medal EC should not exceed 2.67 lbs. Do not use Dual II Magnum, or Dual IIG Magnum after peanuts have emerged. (2) Do not graze or feed peanut forage or fodder to livestock for 30 days following application, and (3) Do not apply within 90 days of harvest, or illegal residues may result.
TANK MIXTURE OR SEQUENTIALLY WITH PURSUIT
The tank mixture or sequential treatment of Medal EC and Pursuit controls all weeds controlled by Medal EC alone and by Pursuit alone. Refer to the Medal EC Applied Alone section for weeds controlled by Medal EC and to the Pursuit label for weeds controlled by Pursuit.

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

TANK MIXTURE WITH SONALAN
The tank mixture controls all weeds controlled by Medal EC alone and by Sonalan alone. Refer to the Medal EC Applied Alone section for weeds controlled by Medal EC and to the Sonalan label for weeds controlled by Sonalan.

Apply Medal EC + Sonalan preplant incorporated using the appropriate rate from Table 7. Follow recommended soil preparation procedures for Sonalan.

Table 7: Medal EC + Sonalan – Peanuts

<table>
<thead>
<tr>
<th>Soil Texture</th>
<th>Broadcast Rates Per Acre</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Southeast</td>
<td>NM, OK, TX</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Medal EC</td>
<td>Sonalan</td>
<td>Medal EC</td>
<td>Sonalan</td>
</tr>
<tr>
<td>COARSE</td>
<td>1.0-1.33 pts.</td>
<td>1.25-2.0 pts.</td>
<td>0.8-1.33 pts.</td>
<td>1.25-2.0 pts.</td>
</tr>
<tr>
<td>MEDIUM</td>
<td>1.0-1.33 pts.</td>
<td>1.75-2.5 pts.</td>
<td>0.8-1.33 pts.</td>
<td>1.75-2.5 pts.</td>
</tr>
<tr>
<td>FINE</td>
<td>1.0-1.33 pts.</td>
<td>2.25-3.0 pts.</td>
<td>0.8-1.33 pts.</td>
<td>2.25-3.0 pts.</td>
</tr>
</tbody>
</table>

Note: Follow all use directions, limitations, precautions, and information regarding application to peanuts on the Medal EC and Sonalan labels.

TANK MIXTURE WITH PROWL
Medal EC + Prowl applied preplant incorporated controls all weeds controlled by Medal EC alone plus Texas panicum, field sandbur, johnsongrass from seed, lambsquarters, kochia, annual spurge, and other species on the Prowl label. Apply Medal EC + Prowl 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 Medal EC + Prowl preplant incorporated, using the appropriate rates from Table 8.

Table 8: Medal EC + Prowl – Peanuts

<table>
<thead>
<tr>
<th>Soil Texture</th>
<th>Broadcast Rates Per Acre</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>NM, OK, TX</td>
<td>Other Peanut</td>
<td>Growing States</td>
</tr>
<tr>
<td></td>
<td>Medal EC + Prowl</td>
<td>Medal EC + Prowl</td>
<td></td>
</tr>
<tr>
<td>Sand, loamy sand</td>
<td>0.8 + 1.0-1.5 pts.</td>
<td>1.0-1.33 + 1.5-2.0 pts.</td>
<td></td>
</tr>
<tr>
<td>Sandy loam</td>
<td>0.8-1.0 + 1.0-1.5 pts.</td>
<td>1.0-1.33 + 1.5-2.0 pts.</td>
<td></td>
</tr>
<tr>
<td>Fine soil</td>
<td>1.33 + 1.0-1.5 pts.</td>
<td>1.33 + 1.5-2.0 pts.</td>
<td></td>
</tr>
</tbody>
</table>

Note: Follow all use directions, limitations, precautions, and information regarding application to peanuts on the Medal EC and Prowl labels.
TANK MIXTURE OR SEQUENTIALLY WITH GRAMOXONE INTEON
Medal EC + Gramoxone Inteon applied at ground cracking or sequentially will control or suppress small (1-6 inch) emerged annual grass and broadleaf weeds and provide residual control of weed species listed in the Medal EC Applied Alone section of this label. Apply Gramoxone Inteon plus the appropriate Medal EC rate from the Peanuts – Medal EC Alone section in a minimum spray volume of 20 gals./A with ground equipment. A second application of Medal EC + Gramoxone Inteon may be made 28 days after ground cracking. (Refer to the Peanuts – Medal EC Combinations – Multiple Applications section of this label for geographical areas where multiple applications are recommended.) Refer to the Gramoxone Inteon label and follow all directions, limitations, and restrictions.

TANK MIXTURE OR SEQUENTIALLY WITH GRAMOXONE INTEON + BASAGRAN
The addition of Basagran to the Medal EC + Gramoxone Inteon mixture will result in improved control of such problem broadleaf weeds as prickly sida, cocklebur, smartweed, and bristly starbur. Medal EC + Gramoxone Inteon + Basagran applied at ground cracking or sequentially will control or suppress small (1-6 inch) emerged annual grass and broadleaf weeds and provide residual control of weed species listed in the Medal EC Applied Alone section of this label. Apply Basagran + Gramoxone Inteon with the appropriate Medal EC rate from the Peanuts – Medal EC Alone section in a minimum spray volume of 20 gals./A with ground equipment. A second application of Medal EC + Gramoxone Inteon + Basagran may be made 28 days after ground cracking. (Refer to the Peanuts – Medal EC Combinations – Multiple Applications section of this label for geographical areas where multiple applications are recommended.) Refer to the Gramoxone Inteon and Basagran labels and follow all directions, limitations, and restrictions.

TANK MIXTURE OR SEQUENTIALLY WITH GRAMOXONE INTEON + BUTYRAC 200 OR BUTOXONE 200
The addition of Butyrac 200 or Butoxone 200 to the Medal EC + Gramoxone Inteon mixture will result in improved control of such problem broadleaf weeds as sicklepod, morningglory, and cocklebur. Medal EC + Gramoxone Inteon + Butyrac 200 or Butoxone 200 applied at ground cracking or sequentially will control or suppress small (1-6 inch) emerged annual grass and broadleaf weeds and provide residual control of weed species listed in the Medal EC Applied Alone section of this label. Apply Gramoxone Inteon + Butyrac 200 or Butoxone 200 with the appropriate Medal EC rate from the Peanuts – Medal EC Alone section in a minimum spray volume of 20 gals./A with ground equipment. A second application of Medal EC + Gramoxone Inteon + Butyrac 200 or Butoxone 200 may be made 28 days after ground cracking. (Refer to the Peanuts – Medal EC Combinations – Multiple Applications section of this label for geographical areas where multiple applications are recommended.) Refer to the Gramoxone Inteon, Butyrac 200 or Butoxone 200 labels and follow all directions, limitations, and restrictions.

TANK MIXTURE OR SEQUENTIALLY WITH BASAGRAN
Medal EC + Basagran applied at ground cracking or sequentially will control species on the Basagran label and provide residual control of species listed in the Medal EC Applied Alone section of this label. Apply 1.0-2.0 pts./A of Basagran in 20 gals./A, depending on weed species and stage of growth as specified on the Basagran label, with the appropriate Medal EC rate from the Peanuts – Medal EC Alone section. A second application of the combination may be made before peanut pegging. (Refer to the Peanuts – Medal EC Combinations – Multiple Applications section of this label for geographical areas where multiple applications are recommended.) A second Basagran application may be made in all peanut growing areas, if needed. Refer to the respective labels and follow all directions, limitations, and restrictions for each product.

TANK MIXTURE OR SEQUENTIALLY WITH BASAGRAN + BUTYRAC 200 OR BUTOXONE 200
Medal EC + Basagran + Butyrac 200 or Butoxone 200 applied at ground cracking or sequentially will control species on the Basagran label and on the Butyrac or Butoxone labels, especially morningglories. Apply 1.5-2.0 pts./A of Basagran + 8.0 fl. oz./A of Butyrac 200 or Butoxone 200 in 20 gals./A, depending on weed species and stage of growth as specified on the Basagran label, with the appropriate Medal EC rate from the Peanuts – Medal EC Alone section. A second application of the combination may be made before peanut pegging. (Refer to the Peanuts – Medal EC Combinations – Multiple Applications section of this label for geographical areas where multiple applications are recommended.) A second Basagran + Butyrac 200 or Butoxone 200 application may be made in all peanut growing areas, if needed. Refer to the respective labels and follow all directions, limitations, and restrictions for each product.
TANK MIXTURE OR SEQUENTIALLY WITH STORM®
Medal EC + Storm applied at ground cracking through 2 expanded tetrafoliate leaves or Medal EC applied according to the directions for Medal EC Alone and followed with an at-cracking through postemergence treatment of Storm as specified on its label will control species on the Storm label and provide residual control of species listed in the Medal EC Applied Alone section of this label. Medal EC will not control emerged weeds. Refer to the Peanuts – Medal EC Alone section and to the Storm label and follow all directions, limitations, and restrictions for each product.

BEANS, PEAS, AND LENTILS – MEDAL EC ALONE
Beans, peas, and lentils, including garbanzo, great northern beans, kidney beans, lima beans, mung beans, navy beans, peas (English*; southern peas, such as blackeye, pinkeye, crowder, etc.), pinto beans, snap beans (green, wax, string), lentils, and lupines (sweet, white, white sweet, and grain).

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

In all locations, apply to crop stubble after harvest when the sustained soil temperature at a 4-inch depth is less than 55°F and falling. In minimum-till or no-tillage systems on soils having greater than 2.5% organic matter, use 1.67-2.0 pts./A on medium-textured and 2.0 pts./A on fine-textured soils. Do not apply to frozen ground. 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. Note: If a spring application is made, the total rate of the fall plus spring applications must not exceed the maximum total rate for beans, peas, and lentils, or illegal residues may result.

Spring Application:
Apply Medal EC, either preplant incorporated or preemergence, using the appropriate rate specified below. Preplant Incorporated or Preemergence: Follow instructions for use of Medal EC alone under Application Procedures. On coarse soils with less than 3% organic matter, apply 1.0-1.33 pts./A of Medal EC or 1.33 pts./A if organic matter is 3% or greater. On medium soils, apply 1.33-1.67 pts./A of Medal EC. On fine soils, apply 1.33-1.67 pts./A of Medal EC if organic matter content is less than 3%, or 1.67-2.0 pts./A if organic matter content is 3% or greater.

*On English peas, use only preemergence applications. If soils are cold and wet during pea germination and emergence, the use of Medal EC may delay maturity and/or reduce yields.

Notes: To avoid possible illegal residues, (1) Do not cut for hay within 120 days following a Medal EC application, (2) Do not use for forage within 60 days following a Dual II Magnum application, and (3) Do not apply more than 2.0 pts./A of Medal EC during any one crop year.

BEANS, PEAS, AND LENTILS – MEDAL EC COMBINATIONS
Note: When applying Medal EC in combination on beans, peas, and lentils, do not cut for hay within 120 days following application, or illegal residues may result.

TANK MIXTURE AND SEQUENTIAL APPLICATIONS WITH EPTAM – BEANS (GREEN OR DRY)
This mixture controls all weeds controlled by Medal EC alone and by Eptam alone. Refer to the Medal EC Applied Alone section of this label for weeds controlled by Medal EC alone and to the Eptam label for weeds controlled by Eptam.
Preplant Incorporated: Follow instructions for use of Medal EC alone under Application Procedures. Sequential: Apply Eptam alone preplant incorporated, as specified on that label. Follow with a preemergence application of Medal EC, at rates specified for Medal EC alone, during planting (behind the planter) or after planting, but before the weeds or crop emerge.
Refer to the **Product Information** section of this label and to the Eptam label for weather, cultural practices, and all other precautions and limitations that affect performance of these products.

Apply 2.5-4.5 pts./A of Eptam 7E* with Medal EC as specified. On **coarse soils**, apply 0.8 pt./A of Medal EC 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 Medal EC 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 Medal EC if organic matter is less than 3%, or 1.33-1.67 pts./A if organic matter is 3% or greater.

*Refer to the Eptam label for rate limitations depending on geographical area, and for species and varietal restrictions.

**Precaution:** Do not exceed 3.5 pts./A of Eptam 7E on small white beans or green beans grown on coarse-textured soils.

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**TANK MIXTURE WITH TREFLAN – BEANS (DRY – KIDNEY, NAVY, PINTO, ETC.; LIMA; AND SNAP)**

Medal EC + Treflan tank mix applied preplant incorporated controls those weeds listed under Medal EC Applied Alone and those weeds listed for Treflan alone on the Treflan label. Medal EC + Treflan may be applied by ground or by aerial equipment and incorporated up to 14 days prior to planting. Follow the recommended procedures on this label and on the respective Treflan label, using equipment that provides uniform 2-inch incorporation.

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

**Note:** Follow all restrictions and precautions on the respective Treflan label and in the Beans, Peas, and Lentils – Medal EC Alone section of this label.

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**POTATOES – MEDAL EC ALONE**

Apply Medal EC, either incorporated, preemergence, or postemergence to potatoes after hilling/lay-by, 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. For applications by center pivot irrigation, see the Center Pivot Irrigation Application section of this label.

**Incorporated:** Apply Medal EC 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. Postplant incorporated application may be made any time after planting to drag-off, but before potato emergence. Use an implement that evenly distributes Medal EC in the top 2 inches of soil. Do not damage potato seed pieces or sprouts with incorporation equipment.

**Preemergence:** Apply Medal EC at 1.0-2.0 pts./A, either after planting as a preemergence, delayed preemergence, after drag-off or hilling treatment, but before weeds emerge. Up to 2.6 pts./A of Medal EC alone may be used where soil organic matter is between 6% and 20%.

**Postemergence After Hilling/Lay-by:** Apply 1.67 pts./A of Medal EC postemergence to potatoes through after hilling/ at lay-by to control Medal EC-sensitive species for remainder of the growing season. This application will not control emerged weeds. It may be applied over a previous Medal EC application, but do not apply more than 3.6 pts./A of Medal EC in a single crop season.

**Precautions:** (1) Do not use on muck or peat soils. If cool, wet soil conditions occur after application, Medal EC may delay maturity and/or reduce yield of Superior and other early maturing potato varieties. (2) These directions for use do not apply to sweet potatoes or yams. (3) Do not apply both as a preemergence and an incorporated treatment.

**Note:** Potatoes treated with Medal EC should not be harvested within 60 days after the at-planting to drag-off application, or within 40 days after a lay-by application, or illegal residues may result.
POTATOES – MEDAL EC COMBINATIONS

TANK MIXTURE WITH SENCOR

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

*Partially controlled.

Medal EC at 1.0-2.0 pts./A plus the labeled Sencor use rate may be used preemergence or postemergence to potatoes through after last hilling. Apply 1.0-1.33 pts./A of Medal EC 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. Medal EC will not control emerged weeds.

Refer to the Sencor label for precautionary statements, restrictions, application information, center pivot irrigation application, weeds controlled, and varietal limitations.

Precautions: (1) Postemergence applications to potatoes except center pivot should be made only as a directed or semi-directed spray to avoid chlorosis, minor necrosis, or leaf distortion. (2) These directions for use do not apply to sweet potatoes or yams. (3) Do not use this tank mixture on muck or peat soils.

Notes: (1) Potatoes treated with Medal EC in tank mixture with Sencor cannot be harvested within 60 days after application, or illegal residues may result. (2) Potatoes may not be harvested within 40 days after a lay-by application of Medal EC, or illegal residues may result.

MEDAL EC + LOROX TANK MIXTURE (EAST OF ROCKY MOUNTAINS)

Medal EC may be applied in a tank mix combination with any of the registered Lorox formulations as a preemergence 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 Table 9.

Table 9: Medal EC + Lorox - Potatoes (East of Rocky Mountains)

<table>
<thead>
<tr>
<th>Soil Texture</th>
<th>Broadcast Rates Per Acre</th>
<th>1% to Less Than 3% Organic Matter</th>
<th>3-5% Organic Matter</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Medal EC</td>
<td>Lorox*</td>
<td>Medal EC</td>
</tr>
<tr>
<td>COARSE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sandy loam</td>
<td>1.0 pt.</td>
<td>1.0-1.5 lbs.</td>
<td>1.33 pts.</td>
</tr>
<tr>
<td>MEDIUM</td>
<td>1.33 pts.</td>
<td>1.5-2.0 lbs.</td>
<td>1.67-2.0 pts.</td>
</tr>
</tbody>
</table>

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

Precautions: To avoid crop injury, (1) Do not use on sands or loamy sands. (2) Do not incorporate or spray over the top of emerged potatoes.

Refer to the Product Information section of this label and to the Lorox label for precautionary statements, restrictions, application information, and weeds controlled.
TANK MIXTURE WITH PROWL 4E
In addition to the weeds controlled by Medal EC alone, this tank mixture with Prowl 4E controls such problem species as kochia, lambsquarters, purslane, annual spurge, stinging nettle, and others specified on the Prowl 4E Alone label. Apply Medal EC + Prowl 4E preemergence, preemergence incorporated, or early postemergence according to the specific directions on the Prowl 4E label, using the rates in Table 10.

**Table 10: Medal EC + Prowl 4E – Potatoes**

<table>
<thead>
<tr>
<th>Soil Texture</th>
<th>Broadcast Rates Per Acre</th>
<th>Less Than 3% Organic Matter</th>
<th>More Than 3% Organic Matter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medal EC + Prowl 4E*</td>
<td>Medal EC + Prowl 4E*</td>
<td>1.0-1.33 pts. + 1.0-1.5 pts.</td>
<td>1.0-1.33 pts. + 1.0-1.5 pts.</td>
</tr>
<tr>
<td>COARSE</td>
<td>1.33 pts. + 1.5-2.0 pts.</td>
<td>1.33-1.67 pts. + 2.0-3.0 pts.</td>
<td></td>
</tr>
<tr>
<td>MEDIUM</td>
<td>1.33-1.67 pts. + 2.0-3.0 pts.</td>
<td>1.67-2.0 pts. + 3.0 pts.</td>
<td></td>
</tr>
</tbody>
</table>

*When using other formulations of Prowl, use equivalent rates of active ingredient.

Refer to the Medal EC and Prowl 4E labels and observe all directions, timings, limitations, precautions, and restrictions concerning the use of these products on potatoes and follow the most restrictive.

TANK MIXTURE WITH PROWL 4E + EPTAM
In addition to the weeds controlled by Medal EC alone, this tank mixture will control those species on the Prowl 4E and Eptam labels. Refer to the Medal EC + Prowl 4E labels for rates of those products and add Eptam 7E at 3.5-7.0 pts./A, depending on geographical area. Refer to the respective Medal EC, Prowl 4E, and Eptam labels and observe all directions, limitations, precautions, and restrictions concerning the use of these products on potatoes and follow the most restrictive.

PUMPKIN – MEDAL EC ALONE

**Preemergence**
Apply Medal EC preemergence (before the weeds have emerged) at 1.0 to 1.33 pint/A as an inter-row or inter-hill application in pumpkin. Leave 1 foot of untreated area over the row, or 6 inches to each side of the planted hill and/or any emerged pumpkin foliage (inter-row or inter-hill means not directly over the planted seed or young pumpkin plants). Use the lower Medal EC rate on soils light in texture (loamy sand or lighter) and low in soil organic matter (less than 3%). Medal EC applied as a broadcast spray over the planted row or hill, or applications made directly to crop foliage will increase the risk of injury to the pumpkin crop such as stand loss, delayed maturity, and loss of yield. Do not apply Medal EC closer than 30 days before pumpkin harvest.

Medal EC will not control emerged weeds, and thus should be applied before the weeds emerge. Weeds that are present should be controlled by another means, e.g., by mechanical means or by another herbicide.

RHUBARB

Apply Medal EC at a broadcast rate of 0.67-1.33 pt./A to the soil surface in early spring, prior to crop emergence. Use lower rates on soils relatively coarse-textured and higher rates on fine-textured soils. A band application may also be used, applying proportionally less spray mixture on the area actually treated. Medal EC will not control emerged weeds. Control emerged weeds with an appropriate registered foliar herbicide or by mechanical or physical means.

**Restrictions:**
1. Make only one application of Medal EC per crop.
2. Do not apply more than 1.33 pt./A of Medal EC per crop.
3. Do not harvest rhubarb within 62 days of the Medal EC application.
SAFFLOWERS – MEDAL EC ALONE

Preplant Incorporated or Preemergence: Follow instructions for use of Medal EC alone under Application Procedures.

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

GRAIN OR FORAGE SORGHUM (SEED TREATED WITH CONCEP®) – MEDAL EC ALONE

Apply Medal EC preplant surface, preplant incorporated, preemergence or postemergence using the appropriate rate specified below. Apply Medal EC alone only when the sorghum seed has been properly treated with Concep seed treatment. Preplant or preemergence applications of Medal EC to sorghum not treated with Concep seed treatment will result in crop death.

Fall Application for Italian Ryegrass Control: Medal EC may be applied for residual control of glyphosate-resistant Italian ryegrass (Lolium multiflorum). Apply Medal EC at 1.33-1.67 pints/Acre in the fall (September 1-December 1) after harvest of the previous crop and prior to Italian ryegrass emergence. Use the lower Medal EC rate for coarse textured soils and the higher rate for fine textured soils. A tillage operation may precede the application. Do not incorporate to a depth greater than 2-3 inches if tillage follows the application of Medal EC. For fall applications after emergence of glyphosate-resistant Italian ryegrass, Gramoxone Inteon can be tank mixed with Medal EC to control emerged ryegrass. Refer to the Gramoxone Inteon label for specific rates, application instructions and restrictions. Other registered herbicides may be tank mixed with Medal EC for control of other weeds present at the time of application. Precautions: (1) Do not apply Medal EC to frozen ground. (2) If a spring application is made, do not apply Medal EC or any other product containing S-metolachlor the following spring to grain or forage sorghum, or illegal residues may result.

Preplant Surface-Applied: Refer to instructions for use of Medal EC under Application Procedures section on this label. For minimum-tillage or no-tillage systems only, Medal EC 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 1.5 pts./A of Medal EC 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 Medal EC on coarse soils not more than 2 weeks prior to planting. Under dry conditions, irrigation after application is recommended to move Medal EC into the soil.

Preplant Incorporated or Preemergence: Refer to instructions for use of Medal EC under Application Procedures section on this label. Broadcast 1.0-1.33 pts./A of Medal EC on coarse soils, 1.33-1.5 pts./A on medium soils, or 1.33-1.67 pts./A on fine soils.

Postemergence: Refer to instructions for use of Medal EC under Application Procedures section on this label. Medal EC may be applied broadcast postemergence at 1.0-1.33 pt./A on coarse soils, 1.33-1.5 pt./A on medium soils, or 1.33-1.67 pt./A on fine soils. Medal EC will not control emerged weeds. Therefore, emerged weeds must be controlled by cultural or chemical means. When applied alone, Medal EC will be safe to emerged sorghum. The risk of sorghum injury increases when adjuvants (e.g., non-ionic, crop oil), Nitrogen sources (e.g. AMS, UAN) or fertilizers are applied with Medal EC.

Precautions: (1) If sorghum seed is not properly treated with Concep seed treatment, preplant and preemergence applications of Medal EC will severely injure the crop. (2) Under high soil moisture conditions prior to sorghum emergence, injury may occur following preplant and preemergence application of Medal EC. The crop will normally outgrow this effect. (3) Do not use Medal EC on sorghum grown under dry mulch tillage, or injury may occur. (4) Except for the split preplant surface treatment, do not make more than one application per year, or illegal residues may result. (5) Do not apply Medal EC postemergence within 75 days of harvest.
GRAIN OR FORAGE SORGHUM (SEED TREATED WITH CONCEP) –
MEDAL EC TANK MIXTURES

Medal EC preplant or preemergence (prior to sorghum emergence) tank mixtures with AAtrex may be applied in water or
fluid fertilizer. Apply Medal EC preplant or preemergence tank mixtures only when the sorghum seed has been properly
treated with Concep seed treatment. Preplant or preemergence applications of Medal EC to sorghum not treated with
Concep seed treatment will result in crop death.

IMPORTANT: FOR TANK MIXTURES WITH AATREX (OR OTHER BRANDS OF ATRAZINE) – If applying Medal EC in tank mixture
with AAtrex, all the restrictions and rate limitations on the AAtrex label must be followed if more restrictive/protective
than those on this label. In addition, if AAtrex is/must be applied at rates lower than those recommended on this label,
broadleaf weed control may be affected. Refer to the AAtrex label for weeds controlled at the reduced rates.

Precautions: (1) Applications of Medal EC + AAtrex on highly alkaline soils or on eroded areas where calcareous subsoils
are exposed may cause sorghum injury. (2) If sorghum seed is not properly treated with Concep, preplant and preemergence
applications of Medal EC + AAtrex may severely injure the crop. (3) Under high soil moisture conditions prior to
sorghum emergence, injury may occur following the use of preplant and preemergence applications of Medal EC + AAtrex.
The crop will normally outgrow this effect. (4) Do not use Medal EC + AAtrex on sorghum grown under dry mulch tillage,
or injury may occur. (5) Except for the split preplant surface treatment, do not make more than one application per year,
or illegal residues may result.

TANK MIXTURE WITH AATREX

In addition to the weeds controlled by Medal EC alone, Medal EC + AAtrex also controls the following broadleaf weeds
when applied either preplant surface, preplant incorporated, or preemergence: cocklebur, common purslane, hairy
nightshade, lambsquarters, morningglory, ragweed, smartweed, and velvetleaf.

Preplant Surface-Applied: Refer to instructions for use of Medal EC under Application Procedures on this label. For
minimum-tillage or no-tillage systems only, Medal EC + AAtrex 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 Medal EC + 1.7-2.0 lbs./A of AAtrex
Nine-O on medium soils with 1.5% organic matter or greater. Apply 1.5 pts./A of Medal EC + 1.7-2.0 lbs./A of AAtrex
Nine-O on fine soils with less than 1.5% organic matter, or apply 1.67 pts./A of Medal EC + 2.0-2.2 lbs./A of AAtrex Nine-O
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, irrigation after application is recommended to move Medal EC + AAtrex
into the soil.

Precautions: To avoid crop injury, (1) Do not use on coarse soils. (2) Do not use on medium soils with less than 1.5% organic
matter.

Preplant Incorporated or Preemergence: Refer to instructions for use of Medal EC under Application Procedures on this
label. On medium soils with 1.5% organic matter or greater, apply 1.0 pt./A of Medal EC + 1.3 lbs./A of AAtrex Nine-O.*
On fine soils with less than 1.5% organic matter, apply 1.0 pt./A of Medal EC + 1.3 lbs./A of AAtrex Nine-O; on fine soils
with 1.5% organic matter or greater, apply 1.2-1.33 pts./A of Medal EC + 1.6-1.8 lbs./A of AAtrex Nine-O.

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

Precautions: To avoid crop injury, (1) Do not use on coarse soils; (2) Do not use on medium soils with less than 1.5% organic
matter; (3) Do not use in NM, OK, or TX, except in northeast OK and the TX Gulf Coast and Blacklands areas; and (4) Do
not apply preplant incorporated in AZ or the Imperial Valley of CA.

TANK MIXTURE OF MEDAL EC OR MEDAL EC + AATREX, WITH GRAMOXONE INTEON, LANDMASTER BW,
TOUCHDOWN BRANDS OR ROUNDUP BRANDS FOR MINIMUM-TILLAGE OR NO-TILLAGE SYSTEMS

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 Gramoxone Inteon, Landmaster BW,
Touchdown or Roundup may be tank mixed with Medal EC or Medal EC + AAtrex. See Comment No. 7 following Table 2.
The Medal EC or Medal EC + AAtrex portion of the tank mixture provides preemergence 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, restrictions, and all other precautions and limitations.

**Application:** Apply before, during, or after planting, but before sorghum emerges. Add Gramoxone Inteon, Landmaster BW, Touchdown brands or Roundup brands and apply as directed on the product labels.

**Gramoxone Inteon:** Apply as directed on the product label. This treatment will not control weeds taller than 6 inches.

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

**Touchdown Brands or Roundup Brands:** See the Touchdown brand or Roundup brand label for weeds controlled, recommended rates, and other use directions.

**SWEET SORGHUM (SEED TREATED WITH CONCEP)**

Apply Medal EC, preplant surface, preplant incorporated, preemergence or postemergence using the appropriate rate specified below. Apply Medal EC only when the sweet sorghum seed has been properly treated with Concep seed treatment. Preplant or preemergence applications of Medal EC to sweet sorghum not treated with Concep seed treatment will result in crop death.

**Soil-Applied:** Medal EC may be applied up to 45 days before planting. 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. Treatments less than 30 days prior to planting may be made either as a split or single application. Under dry conditions, irrigation after application is recommended to move Medal EC into the soil.

**Medal EC rates for soil applications to sweet sorghum**

<table>
<thead>
<tr>
<th>Soil Type</th>
<th>30-45 days prior to planting</th>
<th>&lt; 30 days prior to planting</th>
<th>At Planting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coarse</td>
<td>Not Recommended</td>
<td>1.33 pts</td>
<td>1.0 - 1.33 pts</td>
</tr>
<tr>
<td>Medium</td>
<td>1.5 pts</td>
<td>1.5 pts</td>
<td>1.33 - 1.5 pts</td>
</tr>
<tr>
<td>Fine</td>
<td>1.67 pts</td>
<td>1.67 pts</td>
<td>1.33 - 1.67 pts</td>
</tr>
</tbody>
</table>

1Use only as a split application with 2/3 of the broadcast rate applied initially and the remaining 1/3 applied at planting.

2Preplant Incorporated or preemergence

**Post-Applied:** Medal EC may be applied postemergence to sweet sorghum for residual control of grasses and small seeded broadleaf weeds. Postemergence application to sweet sorghum may be made to crop up to 5 inches in height. Medal EC will not control emerged weeds. Therefore, emerged weeds must be controlled by cultural or chemical methods. When applied alone, Medal EC will be safe to emerged sweet sorghum. Use of adjuvants is prohibited on sweet sorghum.

**Medal EC rates for postemergence applications to sweet sorghum**

<table>
<thead>
<tr>
<th>Soil Type</th>
<th>Postemergence Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coarse</td>
<td>1.0 – 1.33 pts</td>
</tr>
<tr>
<td>Medium</td>
<td>1.33 pts</td>
</tr>
<tr>
<td>Fine</td>
<td>1.33 pts</td>
</tr>
</tbody>
</table>

**Precautions:** (1) If sweet sorghum seed is not properly treated with Concep seed treatment, soil applications of Medal EC prior to sorghum emergence will severely injure the crop. (2) Under high soil moisture conditions prior to sweet sorghum emergence, injury may occur following soil applications of Medal EC. The crop will normally outgrow this effect. (3) Do not use Medal EC on sorghum grown under dry mulch tillage, or injury may occur. (4) Only one application per season is allowed. Medal EC may be applied either as a soil applied treatment or a postemergence treatment but not both. (5) Do not apply Medal EC postemergence within 90 days of harvest.
SOYBEANS – MEDAL EC ALONE

Apply Medal EC, preplant surface-applied, preplant incorporated, preemergence, or postemergence using the appropriate rate specified below. Follow instructions for use of Medal EC alone under Application Procedures section of this label.

Fall Application for Spring Weed Control

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

In all locations, apply to crop stubble after harvest when the sustained soil temperature at a 4-inch depth is less than 55°F and falling. In minimum-till or no-tillage systems on soils having greater than 2.5% organic matter, use 1.67-2.0 pts./A of Medal EC on medium-textured and 2.0 pts./A of Medal EC on fine-textured soils. Do not apply to frozen ground. 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. Note: If a spring application is made, the total rate of the fall plus spring applications must not exceed the maximum total rate for soybeans of 2.6 pts./A depending on soil texture, or illegal residues may result.

Fall Application for Italian Ryegrass Control: Medal EC may be applied for residual control of glyphosate-resistant Italian ryegrass (*Lolium multiflorum*). Apply Medal EC at 1.33-1.67 pints/Acre in the fall (September 1-December 1) after harvest of the previous crop and prior to Italian ryegrass emergence. Use the lower Medal EC rate for coarse textured soils and the higher rate for fine textured soils. A tillage operation may precede the application. Do not incorporate to a depth greater than 2-3 inches if tillage follows the application of Medal EC. For fall applications after emergence of glyphosate-resistant Italian ryegrass, Gramoxone Inteon can be tank mixed with Medal EC to control emerged ryegrass. Refer to the Gramoxone Inteon label for specific rates, application instructions and restrictions. Other registered herbicides may be tank mixed with Medal EC for control or improved control of other weeds present at the time of application. Precautions: (1) Do not apply Medal EC to frozen ground. (2) If a spring application is made, the combined total amount of Medal EC applied in the fall plus the spring must not exceed the maximum seasonal S-metolachlor rate for soybeans (2.6 pt/A, depending on soil texture), or illegal residues may result.

Preplant Surface – Spring Applied: 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 recommended rate of Medal EC (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 of Medal EC on coarse soils not more than 2 weeks prior to planting.

Note: (1) On soybeans, Medal EC may be used up to 2.6 pts./A as a preplant surface treatment on soils having organic matter content between 6% and 20%. (2) The total Medal EC rate applied to soybeans during any one crop should not exceed 2.6 pts./A. (3) Do not graze or feed treated soybean forage, hay, or straw to livestock 30 days following treatment, or illegal residues may result.
Preplant Incorporated or Preemergence: On coarse soils, apply 1.0-1.33 pts./A of Medal EC 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 Medal EC. On fine soils, apply 1.33-1.67 pts./A of Medal EC if organic matter content is less than 3%, or 1.67-2.0 pts./A if organic matter content is 3% or greater.

Note: (1) On soybeans, Medal EC may be used up to 2.6 pts./A as a preplant incorporated or preemergence treatment on soils having an organic matter content between 6% and 20%. (2) The total Medal EC rate applied to soybeans during any one crop should not exceed 2.6 pts./A. (3) Do not graze or feed treated soybean forage, hay, or straw to livestock 30 days following treatment, or illegal residues may result.

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

Medal EC can also be applied as part of a sequential soybean weed control program. If Medal EC was applied as a preplant surface, preplant incorporated, or a preemergence treatment, a second treatment of Medal EC can be applied postemergence provided that the total Medal EC rate during any one crop does not exceed 2.6 pt./A.

Note: (1) Do not apply more than 1.33 pts./A of Medal EC postemergence to soybeans. (2) The total Medal EC rate applied preplant, preemergence or postemergence to soybeans during any one crop should not exceed 2.6 pt./A (2.5 lb. a.i./A of S-metolachlor). (3) Make postemergence applications at least 90 days before harvest. (4) Do not graze or feed treated forage or hay from soybeans to livestock following a postemergence application of Medal EC.

SOYBEANS – MEDAL EC COMBINATIONS

Water or fluid fertilizer may be used as carrier for Medal EC in combination with Sencor, Lorox, Canopy, Pursuit, Scepter, Sonalan, or Command.

Note: For all of the following combinations, Medal EC may be used up to 2.33 pts./A on soils having an organic matter content between 6% and 20%. The total Medal EC rate applied to soybeans during any one crop year should not exceed 2.6 pts./A.

TANK MIXTURE WITH SENCOR

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

*Partially controlled.

Apply Medal EC and Sencor preplant incorporated or preemergence, using the appropriate rates from Table 11. Preplant Incorporated or Preemergence: Follow instructions for use of Medal EC alone under Application Procedures.

Sequential: Apply Medal EC alone Preplant Incorporated, as specified in Table 11 for this tank mixture. Follow with a preemergence application of Sencor during planting (behind the planter) or after planting, but before weeds or soybeans emerge.

Refer to the Sencor label for planting details and soybean variety restrictions.
### Table 11: Medal EC + Sencor– Soybeans

<table>
<thead>
<tr>
<th>Soil Texture**</th>
<th>0.5% to Less Than 3% Organic Matter</th>
<th>3% Organic Matter or Greater</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Medal EC + Sencor DF*</td>
<td>Medal EC + Sencor DF*</td>
</tr>
<tr>
<td>COARSE Loamy sand (over 2% organic matter), sandy loam</td>
<td>0.8-1.0 pt. + 0.33 lb.</td>
<td>1.0 pt. + 0.5 lb.</td>
</tr>
<tr>
<td>MEDIUM</td>
<td>1.0-1.33 pts. + 0.5 lb.</td>
<td>1.33 pts. + 0.67 lb.***</td>
</tr>
<tr>
<td>FINE</td>
<td>1.33 pts. + 0.67 lb.</td>
<td>1.33-1.67 pts. + 0.67 lb.</td>
</tr>
<tr>
<td>Mississippi Delta only Silty clay, clay</td>
<td>1.33 pts. + 1.0 lb.</td>
<td>1.33-1.67 pts. + 1.0 lb.</td>
</tr>
<tr>
<td>Muck or Peat (soils with more than 20% organic matter)</td>
<td>DO NOT USE</td>
<td></td>
</tr>
</tbody>
</table>

*When using Sencor 4, multiply lbs. of DF by 1.5 to get pts./A.

**On all sand and on loamy sand with less than 2% organic matter, do not use this tank mixture preemergence, or the sequential treatment. Do not use the tank mixture preplant incorporated on any sand, loamy sand, or sandy loam, or crop injury may occur.

***Use 0.5 lb./A if applied preplant incorporated.

Precautions: (1) 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, or crop injury may occur. (2) If heavy rain occurs soon after application, crop injury may result, especially in poorly drained areas where water stands for several days.

Note: Follow most restrictive limitations and precautions on the Medal EC – Soybeans Alone section of the Medal EC label and the Soybean directions on the Sencor label.

**TANK MIXTURE WITH LOROX**

In addition to those weeds controlled by Medal EC alone, Medal EC + Lorox, applied preemergence, also controls the following broadleaf weeds: cocklebur*, jimsonweed*, lambsquarters, morningglory*, prickly sida, ragweed, smartweed, velvetleaf*, Venice mallow, and wild mustard.

*Partially controlled.

Preemergence: Apply during planting (behind planter) or after planting, but before weeds or soybeans emerge. Refer to the Lorox label for planting details. Apply the appropriate rates from Table 12.

Precaution: Do not use on soil with less than 0.5% organic matter, or crop injury may occur.
Table 12: Medal EC + Lorox – Soybeans

<table>
<thead>
<tr>
<th>Soil Texture*</th>
<th>Broadcast Rates Per Acre</th>
<th>0.5% to Less Than 3% Organic Matter</th>
<th>3% Organic Matter or Greater</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Medal EC + Lorox DF***</td>
<td>Medal EC + Lorox DF***</td>
<td></td>
</tr>
<tr>
<td>COARSE**</td>
<td>0.8 pt.</td>
<td>1.0 pt.</td>
<td>1.0-1.5 lbs.</td>
</tr>
<tr>
<td>MEDIUM</td>
<td>1.0 pt.</td>
<td>1.0-1.5 lbs.</td>
<td>1.33 pts.</td>
</tr>
<tr>
<td>FINE</td>
<td>1.33 pts.</td>
<td>2.0 lbs.</td>
<td>1.33-1.67 pts.</td>
</tr>
<tr>
<td>Muck or Peat (soils with more than 20% organic matter)</td>
<td>DO NOT USE</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Do not use on sand, gravelly soils, or exposed subsoils.

**Do not use on loamy sand, except in the northeastern U.S. on loamy sand with over 1% organic matter.

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

Note: Follow the most restrictive limitations and precautions on the Medal EC – Soybeans Alone section of the Medal EC label and the Soybean directions on the Lorox labels.

TANK MIXTURE WITH TREFLAN

Medal EC + Treflan tank mix applied preplant incorporated controls those weeds listed under the Medal EC Applied Alone section and those weeds listed for Treflan Alone on the Treflan label. Medal EC + Treflan may be applied by ground or by aerial equipment and incorporated up to 14 days before planting. Follow the recommended procedures on the Treflan and Medal EC labels, using equipment that provides uniform 2-inch incorporation.

Apply Medal EC + Treflan tank mix using the appropriate rate from the Soybeans – Medal EC Alone section and the Treflan Alone section of the Treflan label for the specific soil texture/organic matter classification and weed species expected.

To control DNA-resistant goosegrass* and other species on the respective labels where the soil organic matter is 3% or less, apply the rate in Table 13.

Table 13: Medal EC + Treflan – Organic Matter Content Less Than 3%

<table>
<thead>
<tr>
<th>Soil Texture</th>
<th>Broadcast Rates Per Acre</th>
<th>Medal EC</th>
<th>Treflan E.C.**</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Organic Matter</td>
<td>Organic Matter</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Less Than 3%</td>
<td>Less Than 2%</td>
</tr>
<tr>
<td>COARSE*</td>
<td>0.8-1.0 pt.</td>
<td>1.0 pt.</td>
<td>1.5 pts.</td>
</tr>
<tr>
<td>MEDIUM</td>
<td>1.0 pt.</td>
<td>1.5 pts.</td>
<td>1.5 pts.</td>
</tr>
<tr>
<td>FINE</td>
<td>1.33 pts.</td>
<td>2.0 pts.</td>
<td>2.0 pts.</td>
</tr>
</tbody>
</table>

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

**When Treflan MTF or Treflan 5 is used, use comparable rates. Multiply pts. of Treflan E.C. by 1 for Treflan MTF and by 0.8 for Treflan 5.

Note: Follow the most restrictive limitations and precautions on the Medal EC – Soybeans Alone section of the Medal EC label and the Soybean directions on the Treflan labels.
TANK MIXTURE WITH SCEPTER

This tank mixture controls all weeds controlled by Medal EC alone and by Scepter alone. Refer to the Medal EC Applied Alone section for weeds controlled by Medal EC and to the Scepter label for weeds controlled by Scepter. Refer to the Scepter label for geographical locations where this tank mixture may be applied.

Apply Medal EC + Scepter preplant incorporated or preemergence, using rates in Table 14. Follow use directions under Application Instructions on the Scepter label. For preplant incorporated applications, apply and incorporate within 30 days before planting. Observe all other precautions and limitations on the Scepter labels.

Table 14: Medal EC + Scepter – Soybeans

<table>
<thead>
<tr>
<th>Soil Texture</th>
<th>Broadcast Rates Per Acre</th>
<th>Less Than 3% Organic Matter</th>
<th>3% or More Organic Matter</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Medal EC</td>
<td>Scepter</td>
<td>Medal EC</td>
</tr>
<tr>
<td>COARSE</td>
<td>0.8 pt.</td>
<td>0.67 pt.</td>
<td>1.0 pt.</td>
</tr>
<tr>
<td>MEDIUM</td>
<td>1.0 pt.</td>
<td>0.67 pt.</td>
<td>1.33 pts.</td>
</tr>
<tr>
<td>FINE</td>
<td>1.33 pts.</td>
<td>0.67 pt.</td>
<td>1.33-1.67* pts.</td>
</tr>
<tr>
<td>Muck or Peat</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Use the higher rate of Medal EC if heavy weed infestations are expected.

Note: Follow the most restrictive limitations and precautions on the Medal EC – Soybeans Alone section of the Medal EC label and the Soybean directions on the Scepter labels.

TANK MIXTURE WITH CANOPY

This tank mixture controls all weeds controlled by Medal EC alone and by Canopy alone. Refer to the Medal EC Applied Alone section for weeds controlled by Medal EC and to the Canopy label for weeds controlled by Canopy.

Apply preplant incorporated or preemergence, using the appropriate rates from Table 15. Preplant Incorporated: Apply within 2 weeks of planting. Uniformly incorporate into the top 1-2 inches of soil before planting soybeans. Preemergence: Apply after planting, but before soybeans emerge.

Note: Follow the most restrictive limitations and precautions on the Medal EC – Soybeans Alone section of the Medal EC label and the Soybean directions on the Canopy labels including varietal restrictions.

Table 15: Medal EC + Canopy – Soybeans

<table>
<thead>
<tr>
<th>Soil Texture</th>
<th>Broadcast Rates Per Acre</th>
<th>Less Than 3% Organic Matter</th>
<th>3% or More Organic Matter</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Medal EC</td>
<td>Medal EC</td>
<td>Canopy</td>
</tr>
<tr>
<td>COARSE</td>
<td>0.8 pt.</td>
<td>1.0 pt.</td>
<td>*</td>
</tr>
<tr>
<td>MEDIUM</td>
<td>1.0 pt.</td>
<td>1.33 pts.</td>
<td>*</td>
</tr>
<tr>
<td>FINE</td>
<td>1.33 pts.</td>
<td>1.33-1.67 pts.</td>
<td>*</td>
</tr>
</tbody>
</table>

*Refer to the Canopy label for appropriate rate, according to geographical location, soil and organic matter classification, and pH limitations.

Precaution: 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 on the Canopy label.
TANK MIXTURE WITH COMMAND

This tank mixture controls all weeds controlled by Medal EC alone and by Command alone. Refer to the Medal EC Applied Alone section for weeds controlled by Medal EC and to the Command label for weeds controlled by Command.

Apply Medal EC + Command preplant incorporated, using rates in Table 16. Follow all Command application instructions as to incorporation interval, geographical location, equipment operation, soil moisture conditions, etc.

**Note:** Follow the most restrictive limitations and precautions on the Medal EC – Soybeans Alone section of the Medal EC label and the Soybean directions on the Command labels including rotational restrictions.

**Table 16: Medal EC + Command – Soybeans**

<table>
<thead>
<tr>
<th>Soil Texture</th>
<th>Broadcast Rates Per Acre</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Medal EC</td>
</tr>
<tr>
<td>0.5-3% Organic Matter</td>
<td>Greater Than 3% Organic Matter</td>
</tr>
<tr>
<td>COARSE</td>
<td>0.8 pt.</td>
</tr>
<tr>
<td>MEDIUM</td>
<td>1.0 pt.</td>
</tr>
<tr>
<td>FINE</td>
<td>1.33 pts.</td>
</tr>
</tbody>
</table>

TANK MIXTURE WITH SONALAN

This tank mixture controls all weeds controlled by Medal EC alone and by Sonalan alone. Refer to the Medal EC Applied Alone section for weeds controlled by Medal EC and to the Sonalan label for weeds controlled by Sonalan.

Apply Medal EC and Sonalan preplant incorporated, using the appropriate rates from Table 17.

**Preplant Incorporated:** Follow recommended soil preparation procedures for Sonalan.

**Sequential:** Apply Sonalan alone preplant incorporated as specified on the Sonalan label. Follow with a preemergence application of Medal EC during planting (behind the planter) or after planting, but before weeds or soybeans emerge.

**Table 17: Medal EC + Sonalan – Soybeans**

<table>
<thead>
<tr>
<th>Soil Texture</th>
<th>Broadcast Rates Per Acre</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Less Than 3% Organic Matter</td>
</tr>
<tr>
<td></td>
<td>Medal EC</td>
</tr>
<tr>
<td>COARSE</td>
<td>1.0-1.33 pts.</td>
</tr>
<tr>
<td>MEDIUM*</td>
<td>1.33-1.67 pts.</td>
</tr>
<tr>
<td>FINE*</td>
<td>1.33-1.67 pts.</td>
</tr>
<tr>
<td>Muck or Peat (soils with more than 20% organic matter)</td>
<td>DO NOT USE</td>
</tr>
</tbody>
</table>

*For eastern black nightshade on these soils, apply Sonalan at 3.0 pts./A on medium- and 3.5 pts./A on fine-textured soils, and follow with 2 incorporation passes.

**Note:** Follow the most restrictive limitations and precautions on the Medal EC – Soybeans Alone section of the Medal EC label and the Soybean directions on the Sonalan labels.
TANK MIXTURE WITH PURSUIT
This tank mixture controls all weeds controlled by Medal EC alone and by Pursuit alone. Refer to the Medal EC Applied Alone section for weeds controlled by Medal EC and to the Pursuit label for weeds controlled by Pursuit. Refer to the Pursuit label for geographical locations where this tank mixture may be applied.

Apply Medal EC + Pursuit early preplant, preplant incorporated, or preemergence after planting, using rates in Table 18. Application can be made in water or liquid fertilizer. Follow all use directions under Soil Applications on the Pursuit label. For early preplant and preplant incorporated applications, apply within 30 days before planting.

Note: Follow the most restrictive limitations and precautions on the Medal EC – Soybeans Alone section of the Medal EC label and the Soybean directions on the Pursuit labels including rotational restrictions.

Table 18: Medal EC + Pursuit – Soybeans

<table>
<thead>
<tr>
<th>Soil Texture</th>
<th>Less Than 3% Organic Matter</th>
<th>3% or More Organic Matter</th>
<th>Less Than 3% - 3% or More Organic Matter</th>
</tr>
</thead>
<tbody>
<tr>
<td>COARSE</td>
<td>Medal EC</td>
<td>0.8 pt.</td>
<td>Medal EC</td>
</tr>
<tr>
<td>MEDIUM</td>
<td>1.0 pt.</td>
<td>1.33 pts.</td>
<td>0.25 pt.</td>
</tr>
<tr>
<td>FINE</td>
<td>1.33 pts.</td>
<td>1.33-1.67 pts.</td>
<td>0.25 pt.</td>
</tr>
</tbody>
</table>

Sequential: Apply Medal EC early preplant, preplant incorporated, or preemergence after planting at 0.8 pt./A on coarse soils and 1.0 pt./A on medium- and fine-textured soils. Follow with a sequential postemergence application of Pursuit to control emerged weeds according to the Pursuit label. Medal EC will improve the consistency and level of control from Pursuit on most grass species. Refer to the Pursuit postemergence label for a listing of weeds controlled, application rate, and growth stage limitations.

TANK MIXTURE WITH SENCOR, SCEPTER, LOROX, CANOPY, OR PURSUIT, PLUS GRAMOXONE INTEON, TOUCHDOWN BRANDS OR ROUNDUP BRANDS FOR MINIMUM-TILLAGE OR NO-TILLAGE SYSTEMS
In minimum-tillage or no-tillage systems where soybeans are planted directly into a cover crop, stale seedbed, established sod, or previous crop residues, the contact herbicides Gramoxone Inteon, Touchdown brands or Roundup brands may be added to a tank mix of either Medal EC + Sencor, Medal EC + Scepter, Medal EC + Lorox, Medal EC + Canopy, or Medal EC + Pursuit. When used as directed, the Gramoxone Inteon portion of the tank mixture controls most emerged weeds and suppresses many perennial weeds. Touchdown or Roundup combinations will control emerged annual and perennial weeds when applied as directed on the Touchdown or Roundup label. The Medal EC + Sencor, Scepter, Lorox, Canopy, or Pursuit portion of the tank mixture provides preemergence control of the weeds listed on this label in the tank mixture section for Medal EC + Sencor/Lexone, Medal EC + Scepter, Medal EC + Lorox, Medal EC + Canopy, and Medal EC + Pursuit, respectively.

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, and all other precautions and limitations.

Application: Apply before, during, or after planting, but before the soybeans emerge. Add Gramoxone Inteon, Touchdown brands or Roundup brands and apply as directed on the product labels.

Gramoxone Inteon: Apply as directed on the product label. This treatment will not control weeds taller than 6 inches.

Note: Do not apply combinations containing Gramoxone Inteon in suspension-type liquid fertilizers, as the activity of paraquat will be reduced.
Touchdown or Roundup: See the Touchdown brand or Roundup brand label for weeds controlled, recommended rates, and other use directions.

Apply in 20-60 gals. of water or fluid fertilizer per acre with ground equipment.

**Medal EC + Sencor + Gramoxone Inteon, Touchdown Brands or Roundup Brands**

On loamy sand with over 2% organic matter, apply 1.0 pt./A of Medal EC + 0.33-0.5 lb./A of Sencor DF. On medium soils, apply 1.33 pts./A of Medal EC + 0.5-0.67 lb./A of Sencor DF. On fine soils, apply 1.33-1.67 pts./A of Medal EC + 0.67 lb./A of Sencor DF.

*When using Sencor 4, multiply lbs. of DF by 1.5 to get pts./A.

**Precautions:** To avoid crop injury, (1) 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. (2) If heavy rain occurs soon after application, crop injury may result, especially in poorly drained areas where water stands for several days, or where the seeding slit has not been properly closed.

**Medal EC + Scepter + Gramoxone Inteon, Touchdown Brands or Roundup Brands**

On coarse soils, apply 1.0 pt./A of Medal EC + 0.67 pt./A of Scepter. On medium soils, apply 1.33 pts./A of Medal EC + 0.67 pt./A of Scepter. On fine soils, apply 1.67 pts./A of Medal EC + 0.67 pt./A of Scepter.

**Note:** (1) Do not apply within 90 days of harvest, and (2) Do not graze or feed treated soybean forage, hay, or straw to livestock, or illegal residues may result.

**Medal EC + Lorox + Gramoxone Inteon, Touchdown Brands or Roundup Brands**

On coarse soils*, apply 1.0 pt./A of Medal EC + 1.0-1.5 lbs./A of Lorox DF**. On medium soils, apply 1.33 pts./A of Medal EC + 1.0-2.0 lbs./A of Lorox DF. On fine soils, apply 1.33-1.67 pts./A of Medal EC + 2.0-3.0 lbs./A of Lorox DF.

*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.

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

**Precaution:** Do not use on soil with less than 0.5% organic matter, or crop injury may occur.

**Medal EC + Canopy + Gramoxone Inteon, Touchdown Brands or Roundup Brands**

Use only where soils have 0.5-5% organic matter. On coarse soils (except sand), apply 1.0 pt./A of Medal EC, on medium soils, apply 1.33 pts./A of Medal EC, and on fine soils, apply 1.33-1.67 pts./A of Medal EC. Refer to the Canopy label for appropriate rate, according to geographical location, soil and organic matter classification, pH limitations, and all other use directions.

**Precaution:** 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 on the Canopy label.

**Medal EC + Pursuit + Gramoxone Inteon, Touchdown Brands or Roundup Brands**

On coarse soils, apply 1.0 pt./A of Medal EC + 0.25 pt./A of Pursuit. On medium soils, apply 1.33 pts./A of Medal EC + 0.25 pt./A of Pursuit. On fine soils, apply 1.67 pts./A of Medal EC + 0.25 pt./A of Pursuit.

**POSTEMERGENCE USE ON SOYBEANS – MEDAL EC TANK MIXTURES**

Tank Mixture with Glyphosate Products (e.g., Touchdown Brands or Roundup Brands)

Medal EC at 1.0-1.33 pts./A may be tank mixed with glyphosate products at labeled rates and applied from emergence up through the third trifoliate leaf stage of Roundup Ready or glyphosate-tolerant soybeans. Medal EC alone will not control emerged weeds. Use this treatment only on soybeans designated for use with glyphosate (e.g., Roundup Ready or glyphosate-tolerant soybeans). The glyphosate product must be registered for postemergence use in Roundup Ready or glyphosate-tolerant soybeans.
Tank Mixture with Pursuit
Medal EC at 1.0-1.33 pts./A may be tank mixed with Pursuit at labeled rates and applied from emergence up through the third trifoliate leaf stage of soybeans. Medal EC alone will not control emerged weeds.

Tank Mixture with Liberty Herbicide or Ignite 280 SL
Medal EC at 1.0-1.33 pts./A may be tank mixed with Liberty Herbicide or Ignite 280SL Herbicide at labeled rates and applied from emergence up through the third trifoliate leaf stage of soybeans. Medal EC alone will not control emerged weeds. Use this treatment only on soybeans designated for use with glufosinate (e.g., Liberty Link).

Note: Follow the tank mix product label for adjuvant recommendations. The use of COC or UAN with Medal EC may result in temporary crop injury. To avoid possible illegal residues when Medal EC is applied postemergence to soybeans: (1) Do not apply more than 1.33 pts./A postemergence. (2) Make postemergence applications at least 90 days before harvest. (3) Do not graze or feed treated forage or hay from soybeans to livestock following a postemergence application of Medal EC.

SUGAR BEETS – MEDAL EC ALONE

Postemergence Applications
Medal EC may be applied postemergence to sugar beets after the sugar beets have reached the first true leaf stage. However, because Medal EC is primarily a soil-active herbicide, it must be applied prior to weed emergence in order to provide consistent control of listed weeds. As such, weeds that are emerged with or before the crop, or that are present at the time Medal EC is applied, must be controlled with another appropriately labeled herbicide. Apply Medal EC at 1 pt./A on coarse soils, 1.33 pts./A on medium soils, and 1.67 pts./A on fine soils. More than one postemergence application may be applied, but the total should not exceed 2.6 pts./A. Weeds present at the time of application will not be controlled.

Note: To avoid possible illegal residues: (1) Do not apply more than 2.67 pts./A postemergence. (2) Do not harvest within 60 days after the last application.

Precaution: In coarse soils, Medal EC applied before emergence of sugar beets (i.e., other than postemergence) may cause injury.

SUGAR BEETS – MEDAL EC TANK MIX COMBINATIONS
Medal EC may tank mixed with Assure® II, Betamix®, Betanex®, Poast®, Progress®, Select®, Stinger™, or Upbeet® and applied to sugar beets. Tank mixtures of these products with Medal EC will increase the risk of crop injury over that of either product applied alone, as the Medal EC formulation has some adjuvant properties. The addition of a spray adjuvant such as crop oil concentrates (COCs) or methylated seed oils (MSO’s) can further increase the risk of crop injury. Injury risk can be reduced by using the lowest effective rate of the tank mix partner(s) and/or adjuvant and by avoiding applications under adverse growing conditions or high soil or air humidity. Refer to the individual product labels and follow all use restrictions and limitations.

SUNFLOWERS – MEDAL EC ALONE

Preplant Incorporated or Preemergence
Within the rate ranges given below. Use the higher rate of Medal EC if heavy weed infestations are expected. On coarse soils with organic matter of less than 3%, apply 1.0-1.33 pts./A of Medal EC; 1.33 pts./A if organic matter is 3% or greater. On medium soils, apply 1.33-1.67 pts./A of Medal EC. On fine soils with organic matter of less than 3%, apply 1.33-1.67 pts./A of Medal EC; 1.67-2.0 pts./A if organic matter content is 3% or greater.

Note: To avoid possible illegal residues: (1) Do not allow livestock to graze or feed in treated area. (2) Do not exceed the maximum label rates given above for sunflowers for the soil type.
TOMATOES – MEDAL EC ALONE

Transplanted
Medal EC may be applied preplant incorporated or preplant before transplanting. If the latter method is used, keep soil disturbance to a minimum during the transplanting operation. 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 minimize contact with tomato plants. Medal EC will not control emerged weeds. In bedded transplanted tomatoes, apply Medal EC preplant non-incorporated to the top of the pressed bed, as the last step, prior to laying plastic. Medal EC may also be used to treat row-middles in bedded tomatoes, as long as the total amount of Medal EC does not exceed the maximum allowed per crop.

Seeded
Medal EC 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. Medal EC will not control emerged weeds.

Tomato Use Rates:
On coarse soils, apply 1.0-1.33 pts./A of Medal EC 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 Medal EC. On fine soils, apply 1.33-1.67 pts./A of Medal EC if organic matter content is less than 3% or 1.67-2.0 pts./A if organic matter content is 3% or greater.

Precautions: (1) Do not apply to varieties or cultivars with unknown tolerance to Medal EC. (2) Medal EC 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. (3) In transplanted tomatoes, if Medal EC is applied preplant 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. (4) For row middle applications where tomatoes are grown on sandy soils and where high soil moisture conditions can exist (e.g., low binding and high evaporation conditions), as may be found in the States of Florida, Georgia, Maryland, and Virginia, there is potential for crop injury in the form of leaf epinasty. The risk of this type of injury can be reduced by: a) incorporating the Medal EC immediately following application, b) applying the Medal EC seven or more days before transplanting (but only after the beds have been formed), c) minimizing the application of Medal EC onto the plastic of the bed, or d) any combination of the above.

Note: To avoid possible illegal residues: (1) Do not exceed the maximum label rate for the soil texture per year. (2) Apply only by ground application.

Restrictions:

<table>
<thead>
<tr>
<th>90 Day PHI</th>
<th>If the single application rate of Medal EC is greater than 1.33 pt./A (up to 2.0 pt./A) do not harvest tomatoes within 90 days of application.</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 Day PHI</td>
<td>If the application rate of Medal EC does not exceed 1.33 pt./A do not harvest tomatoes within 30 days of application.</td>
</tr>
</tbody>
</table>

When applying at 1.33 pt./A with a 30 day PHI, the following restrictions apply:

- Do not exceed two applications per growing season.
- The use of adjuvants is prohibited.
- Applications may be made using ground equipment, in concentrated spray volumes.
- Applications may be made as a foliar broadcast spray to the soil within a week of transplanting and again at blooming/fruiting to the row middles as a banded/directed application 38-77 days after the first treatment.

Deleted (1) Do not apply Medal EC within 90 days of tomato harvest.

Added
STORAGE AND DISPOSAL

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

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

Pesticide Disposal
Open dumping is prohibited. Wastes resulting from the use of this product are toxic. Improper disposal of unused pesticide, spray mixture, or rinsate is a violation of federal law. Pesticide, spray mixture, or rinsate that cannot be used according to label instructions must be disposed of according to federal, state, or local procedures. For guidance in proper disposal methods, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office.

Container Handling [less than 5 gallons]
Non-refillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank 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 and disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Container Handling [greater than 5 gallons]
Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean 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, if allowed by state and local authorities, by burning. If burned stay out of smoke.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire, or other emergency, call 1-800-888-8372, day or night.
Note: It is illegal to sell, use or distribute this product within, or into, Nassau County or Suffolk County, New York.

Medal® EC Herbicide

For weed control in corn; cotton; grasses grown for seed; horseradish; peanuts; beans, peas, and lentils; potatoes; pumpkin; rhubarb; safflowers; sugar beets; sunflowers; sweet, grain or forage sorghum; soybean; soybean, immature seed; and tomatoes

Active Ingredients:
- S-metolachlor (CAS No. 87392-12-9) . . . . . . . . . . . 83.7%
- Other Ingredients: 16.3%
- Total: 100.0%

Medal EC contains 7.62 lbs. of active ingredient per gallon.

See directions for use inside booklet.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under the “Agricultural Use Requirements” in the Directions for Use section for information about this standard.

EPA Reg. No. 100-816
EPA Est. 070989-IA-001
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Manufactured for:
Syngenta Crop Protection LLC
P. O. Box 18300
Greensboro, North Carolina 27419-8300
SCP 816B-L1U 1210

KEEP OUT OF REACH OF CHILDREN.

CAUTION

Precautionary Statements

Hazard to Humans and Domestic Animals
Causes moderate eye irritation. Harmful if swallowed or absorbed through skin. Avoid contact with eyes, mouth, or skin. May cause skin sensitization reactions in certain individuals.

FIRST AID

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

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

If swallowed: Call a poison control center or doctor immediately for treatment advice. Do not give anything by mouth to an unconscious person.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a Poison Control Center or doctor, or going for treatment.

HOT LINE NUMBER: For 24 Hour Medical Emergency Assistance (Human or Animal) Or Chemical Emergency Assistance (Spill, Leak, Fire or Accident), Call 1-800-888-8372.

Environmental Hazards: Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water or rinsate.

Ground Water Advisory: The active ingredient in Medal EC has the potential to contaminate surface water through ground spray drift. Under some conditions, the active ingredient may also have a high potential for runoff into surface water (primarily via dissolution in runoff water) for several months post-application. This includes poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow ground water, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas overlaying tile drainage systems that drain to surface water.

Surface Water Advisory: The active ingredient in Medal EC has the potential to contaminate surface water through ground spray drift. Under some conditions, the active ingredient may also have a high potential for runoff into surface water (primarily via dissolution in runoff water) for several months post-application. This includes poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow ground water, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas overlaying tile drainage systems that drain to surface water.

Mixing/Loading Instructions: Care must be taken when using this product to prevent back-siphoning into wells, spills, or improper disposal of excess pesticide, spray mixtures, or rinsates.

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

This product may not be mixed or loaded within 50 ft. of perennial or intermittent streams and rivers, natural or impounded lakes and reservoirs. This product may not be mixed or loaded or used within 50 ft. of all wells, including abandoned wells, drainageways, and sinkholes.*

For exceptions to this restriction, see the Environmental Hazards section of the Precautionary Statements in attached booklet.

Aerial Drift Management Requirements: Do not apply this product by air, unless the supplemental labeling on Aerial Drift Management in attached booklet is followed.

Chemigation: Refer to supplemental labeling in attached booklet for use directions for chemigation. Do not apply this product through any irrigation system, unless the supplemental labeling on chemigation is followed.

STORAGE AND DISPOSAL

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

Pesticide Storage: This product may be stored at temperatures down to 30 degrees below 0º. Under freezing temperatures, see label for guidance.

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

Container Handling: Non-refillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank 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 and disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by burning, or in a composting facility, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire, or other emergency, call 1-800-888-8372, day or night.

To be used in accordance with directions for use in Medal EC label booklet. See Medal EC label booklet for pesticide disposal instructions.

CHILDREN.
KEEP OUT OF REACH OF CHILDREN.

KEEP OUT OF REACH OF CHILDREN.

KEEP OUT OF REACH OF CHILDREN.