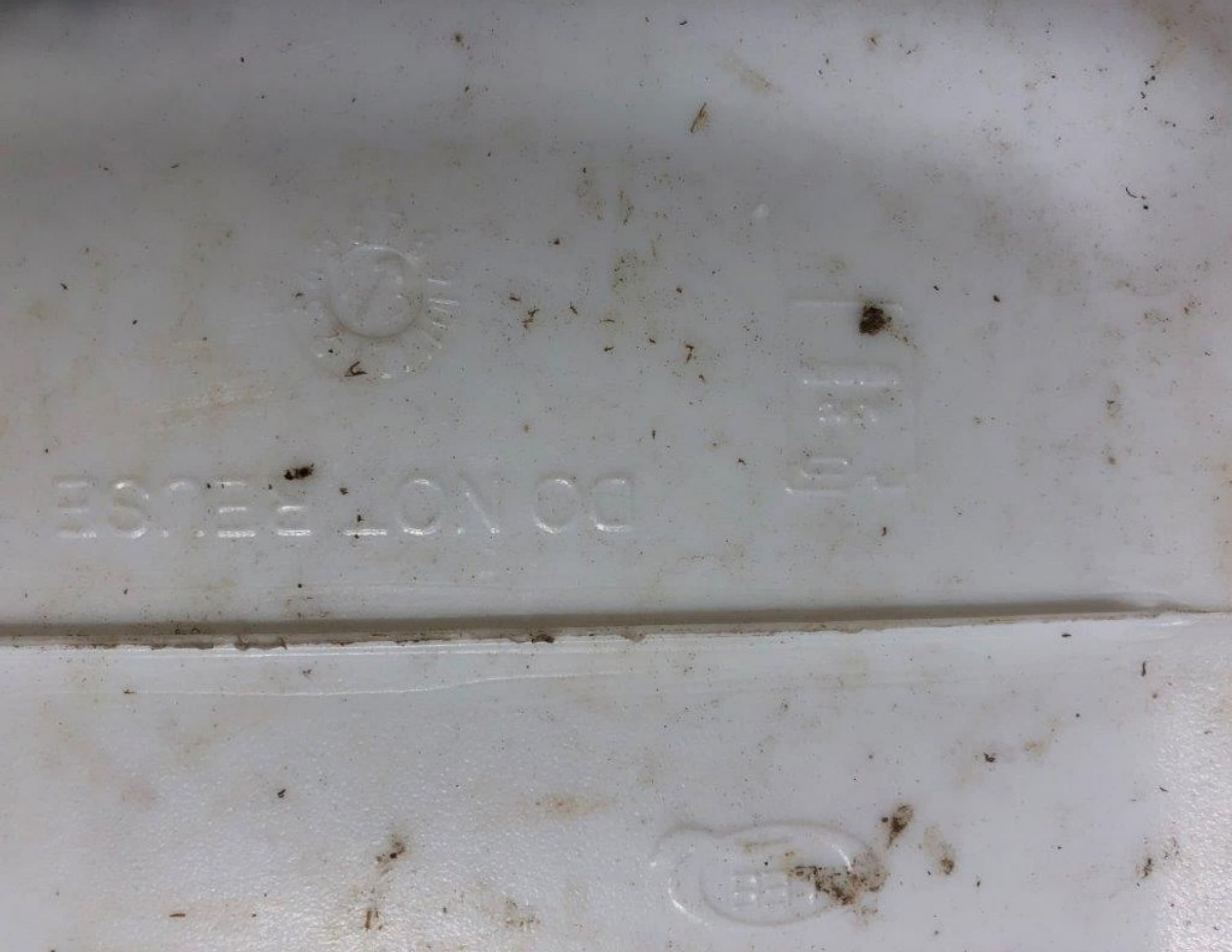
S071221M01002

Start
7/12/21 OP

ONAM0006
-->EPA EST.NO.070989-IA-001
GROUP 1 HERBICIDE
Targa
Herbicide
Emulsifiable Concentrate
Not Yet Registered for Use in California
ACTIVE INGREDIENT: Quizalofop-P-Ethyl
% BY WT.
10.3%*
OTHER INGREDIENTS:
89.7%
TOTAL 100.0%
Contains petroleum-based distillates
*Equivalent to 0.88 lb. ai per gallon
KEEP OUT OF REACH OF CHILDREN
DANGER - PELIGRO
FIRST AID
IF IN EYES:
IF ON SKIN OR CLOTHING:
IF SWALLOWED:
IF INHALED:
HOTLINE NUMBER
PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
DANGER:
NET CONTENTS: 2.5 GALLONS
Distributed by:
Gowan
The Go To Company

1 GAL

GROUP 15 HERBICIDE
Sale, use and distribution of this product in Nassau and Suffolk Counties in the State of New York is prohibited.
Medal® II EC
HERBICIDE
KEEP OUT OF REACH OF CHILDREN.
CAUTION
See additional precautionary statements and directions for use inside booklet.
SCP 818B-L1D 0714
4098408
2.5 gallons
Net Contents


ESSEE LONDON

VWC9K15018 REL DATE 11/19
PRODUCT OF SWITZERLAND
FORMULATED IN THE USA

PULL HERE TO OPEN

GROUP 15 HERBICIDE

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

Medal® II EC

HERBICIDE

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

Active Ingredient: S-metolachlor (CAS No. 87392-12-9)	82.4%
Other Ingredients:	17.6%
Total:	100.0%

Medal II EC contains 7.64 lb of active ingredient per gallon.

Medal II EC is formulated as an emulsifiable concentrate (EC).

EPA Reg. No. 100-818
EPA Est. 11773-IA-01VWC
EPA Est. 100-LA-001GBL
(Superscript is first three letters of batch code on container)

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See additional precautionary statements and directions for use inside booklet.

SCP 818B-L1D 0714
4098408

2.5 gallons
Net Contents

(01) 0 07 02941 46212 0

(01) 0 07 02947

Other Ingredients:	17.6%
Total:	100.0%

Medal II EC contains 7.64 lb of active ingredient per gallon.

Medal II EC is formulated as an emulsifiable concentrate (EC).

EPA Reg. No. 100-818
EPA Est. 11773-IA-01VWC
EPA Est. 100-LA-001GBL
(Superscript is first three letters of batch code on container)

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. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to by a Poison Control Center or doctor. • Do not give anything 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

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Causes eye irritation. Harmful if swallowed or absorbed through skin. Avoid contact with eyes, skin, or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

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 exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Control Statements

Mixers and loaders supporting aerial applications are required to use closed systems. The closed system must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)]. 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...

PRECAUTIONARY STATEMENTS *(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

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

Surface Water Advisory

The active ingredient in Medal II 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 drained 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 vegetative 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 used 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/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.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. 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 II 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.

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

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 II 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 beans, peas, and lentils; corn (all types); cotton; grasses grown for seed; peanuts; potatoes; safflowers; sweet, grain, or forage sorghum; soybeans; soybeans immature seed; sugar beets; sunflowers; and tomatoes.

Restrictions: 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 non target areas.

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

1. Avoid treating powdery dry or light sand soils when conditions are favorable for wind erosion. Under these conditions, treated surface should not be stirred by rainfall or irrigation.
2. Do not apply to impervious surfaces, such as paved or highly compacted surfaces.
3. Do not use tailwater from the first flood or furrow irrigation of treated fields to treat non target crops, unless at least ½ inch of rainfall has occurred between application and the first irrigation.

Where directions specify a Medal II 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 labels if other brands of atrazine are used.

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

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

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

When 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 II EC under abnormally high soil moisture conditions during early development of the crop.

RESISTANT WEED MANAGEMENT

Medal II EC herbicide contains the active ingredient S-metolachlor which inhibits the formation of very long chain fatty acids (WSSA, Site of Action Group 15). Some naturally occurring weed populations have been identified as resistant to Group 15 herbicides. Selection of resistant biotypes, through repeated use of these herbicides or lower than recommended use rates in the same field, may result in weed control failures. A resistant biotype may be present where poor performance cannot be attributed to adverse environmental conditions or improper application methods. If resistance is suspected, contact your local Syngenta representative and/or agricultural advisor for assistance.

General principles of herbicide resistant weed management:

- Employ integrated weed management practices, use multiple herbicide sites-of-action with overlapping weed spectrum in rotation, sequences or mixtures.
- Use the full recommended herbicide rate and proper application timing for the hardest to control weed species present in the field.
- Scout fields after herbicide application to ensure control has been achieved. Avoid allowing weeds to reproduce by seed or to proliferate vegetatively.
- Monitor site and clean equipment between sites.
- Start with a clean field and control weeds early by using a burndown treatment or tillage in combination with a preemergence residual herbicide as appropriate.
- Use cultural practices such as cultivation and crop rotation, where appropriate.
- Use good agronomic practices that enhance crop competitiveness.

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:

COARSE	MEDIUM	FINE
Sand	Loam	Sandy clay loam
Loamy sand	Silt loam	Silty clay loam
Sandy loam	Silt	Clay loam
		Sandy clay
		Silty clay
		Clay

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.

Restrictions: Medal II 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 II EC APPLIED ALONE

Weeds Controlled

Medal II 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 II EC will not control emerged weeds and should be applied prior to weed emergence.

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

Dry weather following application of Medal II 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:

1. Thoroughly till soil to destroy germinating and emerged weeds.
2. Plant crop into moist soil immediately after tillage. If Medal II EC is to be used preemergence, apply at planting or immediately after planting.
3. If available, sprinkler irrigate within 2 days after application. Apply ½-1 inch of water. Use lower water volume (½ 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 II EC.
4. 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 1: Weeds Controlled or Partially Controlled by Medal II EC Applied Prior to Weed Emergence

Common Name	Scientific Name	Weed Type	Control (C) or Partial Control (PC)
Bermudagrass	Cynodon dactylon	Grass	C
Crabgrass, large	Digitaria ischaemum	Grass	C
Crabgrass, smooth	Digitaria sanguinalis	Grass	C

continued...

Table 1: Weeds Controlled or Partially Controlled by Medal II EC Applied Prior to Weed Emergence (continued)

Common Name	Scientific Name	Weed Type	Control (C) or Partial Control (PC)
Crowfootgrass	*Dactyloctenium aegyptium*	Grass	C
Cupgrass, Prairie	*Eriochloa contracta*	Grass	C
Cupgrass, Southwestern	*Eriochloa acuminata*	Grass	C
Cupgrass, woolly	*Eriochloa villosa*	Grass	PC[1]
Foxtail, bristly	*Setaria verticillata*	Grass	C
Foxtail, giant	*Setaria faberi*	Grass	C
Foxtail, green	*Setaria viridis*	Grass	C
Foxtail, millet	*Setaria italica*	Grass	C
Foxtail, yellow	*Setaria pumila*	Grass	C
Goosegrass	*Eleusine indica*	Grass	C
Johnsongrass (seedling)	*Sorghum halepense*	Grass	PC
Millet, wild-proso	*Panicum miliaceum*	Grass	PC[1]
Panicum, fall	*Panicum dichotomiflorum*	Grass	C
Panicum, Texas	*Panicum texanum*	Grass	PC
Rice, red	*Oryza punctata*	Grass	C
Sandbur, field	*Cenchrus spinifex*	Grass	PC
Ryegrass, Italian	*Lolium multiflorum*	Grass	C
Sandbur, Southern	*Cenchrus spinifex*	Grass	PC
Shattercane	*Sorghum bicolor*	Grass	PC
Signalgrass, broadleaf	*Urochloa platyphylla*	Grass	C
Sorghum (volunteer)	*Sorghum bicolor*	Grass	PC
Witchgrass	*Panicum capillare*	Grass	C
Amaranth, Palmer	*Amaranthus palmeri*	Broadleaf	C
Amaranth, Powell	*Amaranthus powellii*	Broadleaf	C
Beggarweed, Florida	*Desmodium tortuosum*	Broadleaf	PC
Carpetweed	*Mollugo verticillata*	Broadleaf	C
Eclipta	*Eclipta prostrata*	Broadleaf	PC
Galinsoga, hairy	*Galinsoga quadriradiata*	Broadleaf	C
Galinsoga, smallflower	*Galinsoga parviflora*	Broadleaf	C
Nightshade, Eastern black	*Solanum ptycanthum*	Broadleaf	C
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

Common Name	Scientific Name	Weed Type	Control (C) or Partial Control (PC)
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
Wolfsedge, yellow	*Cyperus esculentus*	Sedge	C

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

REPLANT 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 II EC.

If a crop treated with Medal II EC is lost, any crop on this label, or on a supplemental Medal II EC label, may be replanted immediately provided that the rate of Medal II 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 32 months following the last application of Medal II EC before planting.

Barley, oats, rye, or wheat may be planted 4½ months following treatment.

Alfalfa may be planted 6 months following application. Clover may be seeded 9 months following application.

Restrictions: To avoid injury to rotational alfalfa or clover, (1) Do not apply more than 1.9 lb active ingredient per acre (20 pt of Medal II EC) in the previous crop, and (2) Do not make lay by or other postemergent applications of Medal II 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 II 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 II EC was applied to the field, the following crops (as well as those listed under subsections B or C below) may be planted 60 days after the last application. A second application of an 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, gulf, sting, horseradish, turnip-rooted parsley, parsnip, radish, oriental radish, rotabaga, rubify, black salsify, Spanish salsify, skirrel, and turnip.

Crop Subgroup 3 Bulb Vegetables (if to be harvested green) - garlic, great headed garlic, leek, green onion, Welsh onion, shallot.

Potter squash (including pumpkins)

B. If not more than 1.67 pt/A of Medal II 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 an 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 II EC was applied to the field, the following crops may be planted 60 days after the last application. A second application of an 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; ...e canna; bitter and sweet cassava; chayote (root); chufa; dasheen (taro); ginger; leren; potato; sweet potato; ...; tumeric; yam bean; and yam, true.

Crop Group 3 Bulb Vegetables (if to be harvested dry) – garlic; great-headed garlic, leek, dry bulb and green onion; Welsh 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, Brussels sprouts, cabbage, Chinese (Napa) cabbage, Chinese mustard, cauliflower, cavalo broccolo, and kohlrabi.

APPLICATION PROCEDURES

APPLICATION TIMING

Medal II EC alone or in some 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 II EC alone and some Medal II 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 1/3 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® brands, 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 II 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 II EC after bed formation, unless specified otherwise.

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

Postemergence: Medal II 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

A.A. Dairy (Beans, Peas, and Lentils; Corn; Safflowers): **Preplant Incorporated:** Broadcast Medal II EC alone or with tank mixtures listed on this label to the soil and thoroughly incorporate with a disk or similar implement set to cut 4-6 inches deep. The more thorough incorporation, till the soil in 2 different directions (cross-till). Crops may be planted on the surface of the soil. Use caution when forming the beds that only soil from the Medal II 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 II EC with a tillage implement set to till 2-4 inches deep. Care should be taken during tilling to keep the tilled (Medal II EC-treated) soil on the beds. **Preemergence:** Apply Medal II EC after planting. Water with sprinkler or flood irrigation within 2-10 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 Beans, Peas, and Lentils; Corn; and Soybeans 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. **Restrictions:** 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 II 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 II EC. **Restrictions:** 1) Do not apply Medal II EC to frozen ground. 2) All crops on the Medal II EC label may be planted the following spring after application. 3) If a spring application is made, the combined total amount of Medal II 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 result. 4) Refer to the crop sections on this label for specific directions.

Ground Application: Apply Medal II EC alone or in tank mixtures by ground equipment in a minimum of 10 gal of spray mixture per acre, unless otherwise specified.

Use sprayers that provide accurate and uniform application. For Medal II 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:

band width in inches		broadcast rate		amount needed
row width in inches	X	per acre	÷	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 Fertilizer 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 Rodator®, Hagie, John Deere Hi-Cycle™, Metrol Spra-Coupe, Tyler Patriot™, or Wilmar 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 25-40 psi at the nozzles, and (2) provide sufficient agitation in tank to keep mixture in suspension. Use a minimum of 5.0 gal of spray mixture per acre. Maximum recommended sprayer speed is 10 mph. Rinse sprayer thoroughly with clean water immediately after each use.

Restrictions: 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 60° 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 II EC in water alone or in tank mixtures with AAtrex, Lorox®, or Sencor® in a minimum total volume of 2.0 gal/A by aircraft. Medal II 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 II EC alone or Medal II EC + AAtrex by aircraft at a minimum upwind distance of 400 ft from sensitive plants, or apply Medal II 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 determines 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.

1. The distance of the outermost nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
2. 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 must 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 must not be made at a height greater than 10 ft above the top of the largest plants, unless a greater height is safe. 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. **Restrictions:** 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 must 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 at sunset 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 disperses indicates good vertical air mixing.

Sensitive Areas

The pesticide must only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, 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 II EC alone or in tank mix 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 II 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

1. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
2. The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of fluid back through the injection pump.
3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump or piston pump), effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

7. Do not apply when wind speed favors drift beyond the area intended for treatment.

8. Prepare a mixture with a minimum of 1 part water to 1 part herbicide(s) and inject this mixture into the center pivot system. Injecting a larger volume of a more dilute mixture per hour will usually provide more accurate calibration of metering equipment. Maintain sufficient agitation to keep the herbicide in suspension.

9. Meter into irrigation water during entire period of water application.

10. Apply in ½ to 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 II EC alone or selected Medal II EC tank mixtures which are registered for preplant incorporated or preplant surface applications which are used to control weeds in crops on the Medal II EC label and are not prohibited from use on dry bulk granular fertilizers.

When applying Medal II EC or Medal II 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.

Individual state regulations relating to dry bulk granular fertilizer bleeding, 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 II EC and Medal II 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-78, or powder granular clay or diatomaceous earth materials, to obtain a dry, free-flowing mixture. Add absorptive materials only after the herbicide has been thoroughly blended into the fertilizer mixture. Best application results will be obtained by using a granule of 6/30 particle size or of a size similar to that of the fertilizer material being used. Generally, less than 2% by weight of absorptive material will be needed. Avoid using more than 5% absorptive material by weight.

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

$$\frac{2{,}000}{\text{lb of fertilizer per acre}} \times \frac{\text{pt/A of liquid or flowable product}}{\text{pt of liquid or flowable product per ton of fertilizer}}$$

$$\frac{2{,}000}{\text{lb of fertilizer per acre}} \times \frac{\text{lb/A of dry product}}{\text{lb of dry product per ton of fertilizer}}$$

Pneumatic (Compressed Air) Application (Medal II EC Alone): High humidity, high area concentrations, low fertilizer use rates, and dusty fertilizer may cause fertilizer mixture to build up or plug the distributor head, air tubes, or spout deflector plates. To minimize buildup, premix Medal II EC with Exxon Aromatic 200 at a rate of 1 to 4 pt/gal of Medal II EC. Aromatic 200 is a less combustible, nonflammable petroleum product. Aromatic 200 may be used when using Aromatic 200 blended or through direct injection systems. Drying agents should not be used when using Aromatic 200.

Restrictions: (1) Mixtures of Medal II EC and Aromatic 200 must be used as 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 II EC in a blender before application, a drier mixture can be obtained by substituting a drying agent for Aromatic 200. The use of drying agents of 6/30 particle size are recommended. (3) Drying agents are not recommended for use with [illegible]

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

Application

Apply 200-700 lb 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 II EC Alone: Mix Medal II EC with water or fluid fertilizer and apply as a spray. Fill the spray tank 1/2-3/4 full with water or fluid fertilizer, add the proper amount of Medal II 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, Balan, Balance Pro, 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 II EC, then add Gramoxone brands, Landmaster® BW, or 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.

Use 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 II 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.

Restrictions: 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 oz of carrier (fertilizer or water) to each of 2 one-qt jars with tight lids. **Restrictions:** 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 tank mix such as Co-Tank® or Unite® (1/4 tsp is equivalent to 2.0 pt/100 gal 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. Coarse, fine, and a mixture of the 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 ½ the compatibility agent to the fertilizer or water and the other ½ 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 II EC ALONE

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

PREPLANT SURFACE-APPLIED

Refer to instructions for use of Medal II EC alone under **Application Procedures**.

Fall Application for Spring Weed Control:

1. Apply after September 30 in ND, SD, MN, WI, and north of Route 30 in IA.
2. Apply after October 15 north of Route 91 in NE and south of Route 30 in IA.
3. 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 pt/A on medium-textured and 2.0 pt/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. **Restrictions:** If a spring application is made, the total rate of the fall plus spring applications must not exceed the maximum total rate for corn, or illegal residues may result.

Fall Application for Italian Ryegrass Control: Medal II EC may be applied for residual control of glyphosate-resistant Italian ryegrass (*Lolium multiflorum*). Apply Medal II EC at 1.33-1.67 pt/A in the fall (September 1-December 1) after harvest of the previous crop and prior to Italian ryegrass emergence. Use the lower Medal II 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 II EC. For fall applications after emergence of glyphosate-resistant Italian ryegrass, Gramoxone brands can be tank mixed with Medal II EC to control emerged ryegrass. Refer to the Gramoxone brands label for specific rates, application instructions, and restrictions. Other registered herbicides may be tank mixed with Medal II EC for control or improved control of other weeds present at the time of application. *Precautions: 1) Do not apply Medal II EC to frozen ground. 2) If a spring application is made, the combined total amount of Medal II 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 preemergent control or suppression of yellow nutsedge the following spring, apply 1.33 pt/A of Medal II EC in the fall after the harvest of the previous crop but before freeze-up. Fall applications of Medal II 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 II EC applied in the fall plus the spring must not exceed the maximum season S-metolachlor rate for corn (3.9 pt/A, depending on soil texture).

[illegible] minimum-tillage or no-tillage systems in CO, IA, IL, IN, KS, KY, MN, MO, NE [illegible] recommended rate of Medal II EC (1.67 pt/A on medium soils and 2.0 pt/A on [illegible] and the remainder at planting. Applications made less than [illegible]

30 days prior to planting may be as either a split or single treatment. Apply 1.33 pt/A on coarse soils not more than 2 weeks before planting. Restrictions: 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.

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., Aatrex, 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 II EC alone under **Application Procedures**. On coarse soils, apply 1.0-1.33 pt/A of Medal II EC if organic matter content is less than 3%, or 1.33 pt/A if organic matter content is 3% or greater. On medium soils, apply 1.33-1.67 pt/A of Medal II EC. On fine soils, apply 1.33-1.67 pt/A of Medal II EC if organic matter content is less than 3%, or 1.67-2.0 pt/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 pt/A of Medal II 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 II 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 II EC rate applied on corn during any one crop year should not exceed 3.9 pt/A, depending on soil texture.

Restrictions 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 pt/A of Medal II EC preplant incorporated followed by 1.0-1.33 pt/A of Medal II EC preemergence. Make the preemergence application during or after planting, but before weeds and corn emerge. Apply the 1.33 pt/A rate of Medal II 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 II EC early preplant, preplant incorporated, or preemergence at 1.67 pt/A on medium soils and 2.0 pt/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.

Restrictions: (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, use up to 2.5 pt/A of Medal II EC preplant surface, preplant incorporated, or preemergence treatment on soils having an organic matter content between 6% and 30%. (3) In the event of escape of annual weeds following a preplant surface, preplant incorporated, or preemergence treatment of Medal II 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 1.4 lb ai/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 II EC on peat or muck soils.

CORN - MEDAL II EC COMBINATIONS

Medal II 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 II EC is applied after corn emergence.

3. Apply Eradicane® (or equivalent EPTC or butylate formulations) at labeled rates preplant incorporated, followed by a preemergence application of Medal II EC at 1.0-1.33 pt/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.

Caution: 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.

Restrictions: Do not exceed a total of 1.9 lb ai/A (2.0 pt of Medal II EC) in the preplant incorporated plus preemergence application on soils with less than 6% organic matter, or crop injury may result.

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

	Broadcast Rates Per Acre			
	Less than 3% Organic Matter		3% Organic Matter or Greater	
Soil Texture	Medal II EC + AAtrex Nine-O* OR Medal II EC + Princep Caliber 90**	Medal II EC + AAtrex Nine-O** OR Medal II EC + Princep Caliber 90**	Medal II EC + AAtrex Nine-O* OR Medal II EC + Princep Caliber 90**	Medal II EC + AAtrex Nine-O** OR Medal II EC + Princep Caliber 90**
COARSE	0.8-1.0 pt + 1.3-2.2 lb	0.8-1.0 pt + 0.6-1.1 lb + 0.6-1.1 lb	1.0 pt + 1.3-2.2 lb	1.0 pt + 0.7-1.1 lb + 0.7-1.1 lb
MEDIUM	1.0-1.33 pt + 1.3-2.2 lb	1.0-1.33 pt + 0.7-1.1 lb + 0.7-1.1 lb	1.33 pt + 1.8-2.2 lb	1.33 pt + 0.9-1.1 lb + 0.9-1.1 lb
FINE	1.33 pt + 1.8-2.2 lb	1.33 pt + 0.9-1.1 lb + 0.9-1.1 lb	1.33-1.67 pt + 1.8-2.2 lb***	1.33-1.67 pt + 0.9-1.1 lb*** + 0.9-1.1 lb***
Muck or Peat Soils with more than 20% organic matter	DO NOT USE			

*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 II EC may be used up to 2.33 pt/A in tank mix combination with 0.7 lb/A of AAtrex Nine-O, or equivalent rates of AAtrex 4L. Refer to the AAtrex label for weeds controlled at this rate.

**When using the tank mixture of Medal II EC + AAtrex Nine-O + Princep Caliber 90, use equal rates of each at all times 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 lb/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 conversion.

***For cocklebur, yellow nutsedge, and velvetleaf control on fine-textured soils above 3% organic matter, apply 2-2.5 pt of AAtrex Nine-O, or equivalent rates of AAtrex 4L, or the same total amount of AAtrex + Princep with 1.33-1.67 pt of Medal II EC.

TANK MIXTURE WITH AATREX • POSTEMERGENCE

Weeds Controlled			Weeds Partially Controlled
barnyardgrass (watergrass)	green foxtail	pigweed	cocklebur
crabgrass	yellow foxtail	prickly sida	morningglory
crowfootgrass	jimsonweed	purslane	yellow nutsedge
fall panicum	kochia	ragweed	
giant foxtail	lambsquarters	smartweed	
	mustard	velvetleaf	

Apply 1.0 pt/A of Medal II EC + 1.3 lb/A of AAtrex Nine-O* on coarse soils, 1.33 pt/A of Medal II EC + 1.8 lb/A of AAtrex Nine-O on medium soils, or 1.33-1.67 pt/A of Medal II EC + 1.8-2.2 lb/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 pt of AAtrex 4L.

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

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

Restrictions: The total Medal II EC rate should not exceed 3.9 pt, nor the AAtrex rate more than 2.5 lb ai/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 II EC alone, Medal II EC + Banvel, applied preemergence, also controls lambsquarters, ragweed, smartweed, cocklebur*, jimsonweed*, morningglory*, and velvetleaf*.

*Partially controlled.

Apply Medal II EC + Banvel preemergence: Broadcast 1.0 pt/A of Banvel with 1.33 pt/A of Medal II EC on medium soils or with 1.33-1.67 pt/A of Medal II 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 soil more than 1/2 inch deep.

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

Postemergence for Control of Pigweed Only: Atlantic states, including DE, MD, PA, VA, and WV: Apply 1.0-1.5 pint of Medal II 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 gal of spray per acre. Use the higher rate on fine-textured and high organic matter soils. Use the higher rate on fine-textured and high organic matter soils. Use the lower rate on coarse-textured and low 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 II 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 gal of water or 20 gal of liquid fertilizer. Apply by air in a minimum of 5.0 gal of water. Refer to Table 3 of this label for rates of Medal II EC, AAtrex, or Princep to be applied. Apply Prowl 4E according to the rates in Table 4.

*Do not apply Medal II 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

Soil Texture	Percent Organic Matter in Soil		
	Less Than 1.5%	1.5-3%	Over 3%
COARSE	1.5-2.0 pt	2.0 pt	2.0 pt
MEDIUM	2.0 pt	3.0 pt	3.0 pt
FINE	2.0 pt	3.0 pt	3.0 pt

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 WITH AATREX OR PRINCEP, OR AATREX + PRINCEP WITH GRAMOXONE BRANDS, 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 brands, Landmaster BW, Touchdown brands or Roundup brands should be tank mixed with Medal II EC + AAtrex, Medal II EC + Princep, or Medal II EC + AAtrex + Princep. See Comment No. 7 following Table 2. The Medal II EC, Medal II EC + AAtrex or Princep, or Medal II 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 II EC, Medal II EC + AAtrex or Princep, or Medal II EC + AAtrex + Princep Preplant Surface, Preplant Incorporated, or Preemergence.

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

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

Restrictions: Do not apply combinations containing Gramoxone brands in suspension-type liquid fertilizers, as 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 label for weeds controlled, recommended rates, and other use directions.

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

On coarse soils, apply 1.0 pt/A of Medal II EC with 1.3 lb 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 pt/A of Medal II EC with 1.8 lb 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 pt/A of Medal II EC with 1.8-2.2 lb of AAtrex Nine-O or Princep Caliber 90, or with 0.9-1.1 lb of AAtrex Nine-O + 0.9-1.1 lb 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 II 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 cocklebur, pitfall, or sunflower are expected, use a 1:2 ratio of AAtrex + Princep instead of the 1:1 ratio given. (Example: Tank AAtrex Nine-O + Princep Caliber 90 = 1.6 lb/A, use 0.6 lb of AAtrex + 1.2 lb of Princep, respectively.) Refer to Comment No. 2 following Table 2 for AAtrex 4L and Princep 4L equivalents.

For cocklebur, yellow nutsedge, and velvetleaf control on fine-textured soils above 3% organic matter, apply 2.25 qt/A of AAtrex Nine-O, or equivalent rate of AAtrex 4L, or the same total amount of AAtrex + Princep, with 1.33-1.67 pints of Medal II 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, sod seedbed, established sod, or previous crop residue, Medal II EC applied in combination with AAtrex will kill most emerged small annual weeds. Apply Medal II EC + AAtrex before, during, or after planting, but before corn emerges, according to the rates in Table 3.

When heavier weed pressure exists, add 0.8-1.6 pints/A of an appropriately labeled 3.8 lb a/gal of 2,4-D amine such as Weedar 64, Weedar 64L, plus a herbicide, Weedone® 638 or Formula 40, to the spray tank last and apply in a minimum of 25 gal of carrier per acre.

As carriers, nitrogen solutions and complete liquid fertilizers, applied before corn emergence, enhance burndown of existing weeds, and Weedone, are recommended instead of water. Add X-77 surfactant at 1.0-2.0 qt/100 gal of diluted spray in 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 0.5 pint/A and apply before alfalfa exceeds 6 inches in height.

For fields with existing tall grasses (e.g., bromegrass, orchardgrass, rye, or timothy), when existing weeds exceed 3 inches in height or when very dry conditions exist, add Gramoxone brands of the rate indicated on the product label in place of or in addition to 2,4-D, as indicated above. Do not apply Gramoxone brands 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.

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 II EC + Marksman will kill most emerged small annual weeds. Apply Medal II EC + Marksman before, during, or after planting, but before corn emergence on medium and fine soils with greater than 2.5% organic matter. For fields with existing vegetation exceeding 3 inches in height or when very dry conditions exist, add Gramoxone brands at its standard rate. Medal II EC + Marksman may be applied postemergence to corn less than 4 inches tall and before weedy grasses exceed the 2-leaf stage. Do not attempt to substitute Medal II or Marksman products as an equivalent product in this mixture.

As carriers, nitrogen solutions and complete liquid fertilizers, applied before corn emergence, enhance burndown of existing weeds. Do not apply Gramoxone brands in suspension-type liquid fertilizer or use on emerged corn.

Refer to the Marksman label and follow all directions, limitations, precautions, and information regarding application and use in corn.

TANK MIXTURE WITH BALANCE PRO - FIELD CORN ONLY

Medal II EC and Balance Pro have a complementary 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 II EC improves both the duration and spectrum of annual grass and annual broadleaf weed control, in particular foxtails (yellow foxtail) and witchgrass, and yellow nutsedge.

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

below are compensating rate options for combinations of Medal II EC and Balance Pro, i.e., higher rates of Medal
are combined with lower rates of Balance Pro and vice versa. Select a rate option for Medal II EC plus Balance Pro by
the intensity of problem weed pressure (population pressure and density) and your acceptance for risk of an
crop response. For example, where Texas panicum, velvetleaf cupgrass, or velvet morningglory is a primary target weed,
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 (espe-
cially yellow foxtail, witchgrass, or yellow nutsedge), use a tank-mix combination with a higher Medal II EC rate for the
given soil type. Where a target weed is listed as controlled on both product labels, a tank-mix combination option indicat-
ing intermediate rates of both products may be used. 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 II EC and Balance Pro product labels.

For coarse-textured soils: Where 1.5 or 1.88 oz/A of Balance Pro is used, 1.0-1.33 oz/A of Medal II 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 oz/A of Medal II EC may be applied.
Where 1.88 or 2.25 oz/A of Balance Pro is used, rates as low as 1.0 oz/A of Medal II EC may be applied. Medal II EC can be
used in combinations with Balance Pro at rates up to 1.67 oz/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 oz/A of Medal II EC may be applied if the
soil organic matter is less than 3% or the soil organic matter is 3% or greater, 1.67 oz/A of Medal II EC should be applied.
Where 1.88 or 2.25 oz/A of Balance Pro is used, rates as low as 1.33 oz/A of Medal II EC may be applied. Where 3.0 oz/A or
more of Balance Pro is used, rates as low as 1.0 oz/A of Medal II EC may be applied. Where 3.0 oz/A or
more with Balance Pro at rates up to 2.0 oz/A on fine-textured soils if the organic matter 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 II 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 postemer-
gence program listed below can be applied to provide residual control for the remainder of the season.

Restrictions: (1) Follow all label directions, instructions, precautions, and limitations for each product used. (2) Do not use
fluid fertilizer with these mixtures or crop injury may occur. (3) For each tank mixture with Medal II EC, apply only to the
specific field corn type identified on the tank mix product label. (4) Crop weed control may be reduced because of less
of coverage when applied to corn over 4 inches tall.

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

Follow all applicable use directions, limitations, precautions, and restrictions regarding application to corn on the Medal
II EC and 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 II 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 II EC + Touchdown brands or Roundup brands can be applied postemergence to weeds and
a corn designated as glyphosate-tolerant. Application may be applied postemergence to glyphosate-tolerant corn from
emergence up to approximately 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 II EC label. Use the minimum Medal II EC rate postemergence with Touchdown or Roundup in glyphosate-tolerant corn as specified in the Corn - Medal II 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. Where difficult species and/or severe weed populations are expected, use the maximum rate where rate ranges are listed.

Medal II 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 II 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 II EC + AAtrex label. Use the minimum Medal II EC + AAtrex rate postemergence with Touchdown or Roundup in glyphosate-tolerant corn as specified in the **Corn - Medal II 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 II 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 II EC ALONE

Application: Apply Medal II EC preemergence only in Area 1* at the rate of 0.5-1.0 pt/A on sandy loams, 0.66-1.33 pt/A on medium soils, at 0.9-1.33 pt/A on fine soils. Apply Medal II EC preplant incorporated or preemergence in Area 2** at 1.0 pt/A on sandy loams, 1.0-1.33 pt/A on medium soils, or 1.33 pt/A on fine soils. Apply Medal II EC postemergence to cotton and preemergence to weeds at 0.5-1.33 pt/A, according to the state limitations in the following Postemergence section.

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

**Area 2 = NM, OK, and TX

Fall Application for Italian Ryegrass Control: Medal II EC may be applied for residual control of glyphosate resistant Italian ryegrass (Lolium multiflorum) only. Apply Medal II EC at 1.33-1.67 pt/A in the fall (September 15-December 1) after harvest of the previous crop and prior to Italian ryegrass emergence, use the lower Medal II 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 inches if tillage follows the application of Medal II EC. For fall applications after emergence of glyphosate-resistant Italian ryegrass, Gramoxone brands can be tank mixed with Medal II EC to control emerged ryegrass. Refer to the Gramoxone brands labels for specific rates, application instructions, and restrictions. Other registered herbicides may be tank mixed with Medal II EC for control or improved control of other weeds present at the time of application. Precautions: (1) Do not apply Medal II EC to frozen ground. (2) If a spring application is made, the combined total amount of Medal II EC applied in the fall plus the spring must not exceed the maximum seasonal 5-month labelled rate for cotton (2.6 pt/A) depending on soil texture. A legal (such as may result in [illegible]

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 preplant incorporated application if tillage is used to uniformly incorporate the more chemical into deep. Use a preplant incorporated application if tillage is used or when a period of dry weather after application is expected. Where furrow irrigation is used, wait one hour after bed formation. Cotton should be planted on beds, apply and incorporate after bed formation. Cotton should be planted below the zone of tillage, at least 1 inch on flat soil and 1.5 inches on ridges and minimum soil [illegible] Incorporated prior to planting, use a planter that will result in a minimum of soil disturbance.

Restrictions: For best control of yellow nutsedge and suppression of seedling johnsongrass, apply Medal II EC preplant incorporated at the maximum rate for the soil texture, whether applied alone or mixed with Sonalan or Treflan.

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

Postemergence: Apply Medal II EC treatment over the top or directed to the soil surface according to the rate limitations listed below to wise. 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 60 days before harvest. Application before weeds emerge or after clean cultivation to remove existing weeds is necessary since Medal II EC will not control emerged weeds. Medal II EC postemergence may be applied over any previous registered herbicide treatment. Incorporate 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 II EC. In furrow-irrigated areas, apply Medal II EC, incorporate with a rolling cultivator or other implement that provides uniform shallow incorporation (2 inches or less), and then irrigate. In non-irrigated areas, if at least 0.5 inch of rain does not occur within 10 days after application, cultivate with a rolling cultivator or similar implement that provides uniform shallow incorporation of Medal II EC.

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

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

TX, OK, NM, AZ, CA, and Dry Soils in AR: Apply Medal II EC postemergence at 1.0-1.33 pt/A before August 1.

Multiple Applications: Where weed pressure is heavy, difficult to control species are expected, or heavy infestation may occur, the weed control program is used multiple applications of Medal II EC are effective when used as part of the weed control program. Apply as a preplant incorporated or preplanted treatment and follow with an application of postemergence to cotton before weeds emerge or after clean cultivation to remove existing weeds, since Medal II EC will not control emerged weeds. Apply Medal II EC postemergence over a previous application of preemergence Medal II EC treatment as shown in the following table.

Multiple Medal II EC Applications in Cotton

State	Preplant Incorporated or Preemergence (PPI/A)	Postemergence (PoA)
MS, GA, TN, AR, KS, MO	0.5-1.33 pt (Preemergence Only)	0.5-1.33 pt
TX, OK, NM	1.0-1.33	1.0-1.33 before August 1
NC, VA	1.0-1.33 (Preemergence Only)	1.0-1.33

Use Areas

ALL

OK and Black Lands and Gulf Coast of TX

Rio Grande Valley of TX

NM; High Plains, Rolling Plains, Edwards Plateau of TX; and Southwest TX

Postemergence Directed (A
4L in water and applied po
and topical preemergence
cultivation for residual pre
including Medal II EC, prov
cotton or injury may occur.

Apply Medal II EC + Caparol
precautions on the Caparol
directions, limitations, and
section.

Precautions: (1) To avoid co
4L to cotton planted in furr
deeper than 2 inches, but
(2) Do not apply on sand or
dust areas of newly leveled
Apply on Tarkio silt loam.

Restrictions: Do not graze
Refer to the Caparol 4L lab

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Postemergence: Apply Medal II EC treatment 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 postemergence application to remove existing weeds is necessary since Medal II EC will not control emerged weeds. Medal II EC postemergence may be applied over any previous registered herbicide treatment. In sprinkler irrigated areas, sprinkler irrigate after application with ½-1 inch of water (½ inch on coarse-textured soils to 1 inch on fine-textured soils) to incorporate Medal II EC. In furrow-irrigated areas, apply Medal II EC, incorporate with a rolling cultivator or similar implement that provides uniform shallow incorporation (2 inches or less), and then irrigate. In non-irrigated areas, if at least ½ 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 II EC.

VA, NC, SC, GA, FL, and AL: Apply Medal II EC postemergence at a directed pint.

TN, AR, KS, MS, MO, and DE: Apply Medal II EC postemergence at 0.5-1.33 pint.

TX, OK, NM, AZ, CA, and Clay Soils in AR: Apply Medal II EC postemergence at 1.0-1.33 pint before August 1.

Multiple Applications: Where weed pressure is heavy, difficult-to-control species are expected or re-infestation may occur, a weed control program is used, multiple applications of Medal II EC and effective when used as part of the weed control program. Apply as a preplant incorporated or preemerged treatment and follow with an application of Medal II EC postemergence to cotton before weeds emerge or after clean cultivation to remove existing weeds, since Medal II EC will not control emerged weeds. Apply Medal II EC postemergence over a previous preplant or preemergence Medal II EC application as shown in the following table.

State	Multiple Medal II EC Applications to Cotton	
	Preplant Incorporated or Preemergence (PreA)	Postemergence (PostA)
MS, LA, TN, AR, KS, MO	0.5-1.33 (Preemergence Only)	0.5-1.33
TX, OK, NM	1.0-1.33	1.0-1.33 before August 1
NC, VA	1.0-1.33 (Preemergence Only)	1.0-1.33

In sprinkler irrigated areas, sprinkler irrigate after application with ½-1 inch of water (½ inch on coarse-textured soils to 1 inch on fine-textured soils) to incorporate Medal II EC. In furrow-irrigated areas, apply Medal II EC, incorporate with a rolling cultivator or similar implement that provides uniform shallow incorporation (2 inches or less), and then irrigate. In non-irrigated areas, if at least ½ 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 II EC.

Restrictions: For best control of yellow nutsedge and suppression of seedling johnsongrass, apply Medal II 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 pint/A or coarse soil or 2.8 pint/A of Medal II EC on medium and fine soil during a growing season. These treatments may be applied over previous registered herbicide treatments.

Precautions: To avoid crop injury: (1) Do not apply Medal II EC on sandy 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 two broadcast applications of Medal II EC on cotton planted in furrows more than 2 inches deep. Band application 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 concentration in the furrow and potential injury, do not apply Medal II EC postemergence over the top in fixed furrow or any other equipment or tractor rut, or other cultivation to level soil surface. (4) Do not apply over the top in fixed furrow or any other equipment or tractor rut, or other cultivation to level soil surface. (5) Do not apply on Talokа silt loams and pesticide not recommended in the cotton section of the label, or injury may occur. (6) Do not use in Garza County, TX.

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

COTTON - MEDAL II EC COMBINATIONS

TANK MIXTURE WITH CAPAROL 4L

Medal II EC tank mixtures 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 II 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 use water as a carrier for postemergence directed application.

In addition to those weeds controlled by Medal II EC alone, Medal II EC + Caparol 4L applied preplant incorporated or preemergence, also controls the following weeds: junglerice, wild oats, annual morningglory, groundcherry, hairy nightshade, lambsquarter, chaiya, mustard, prickly sida, lanceleaf, purslane, ragweed, and shallow-germinating seedlings of cocklebur and coffeeweed. As a postemergence-directed application, Caparol 4L provides postemergence control and residual control of weeds on its label, while Medal II EC provides residual control of weed species on its label. Medal II EC will not control emerged weeds.

Preplant Incorporated or Preemergence: Apply Medal II EC + Caparol 4L either preplant incorporated or preemergence using the appropriate rate from Table 5. Plant cotton below the zone of incorporation (at least 1.0 inch in 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 II EC + Caparol 4L - Cotton (NM, OK, TX)

Use Areas	Soil Texture	Broadcast Rates Per Acre	
		Medal II EC	Caparol 4L
ALL	Sand, loamy sand	0.66-1.33 pt	2.4 pt
OK and Rolling Plains of South Coast of TX	Loams	0.66-1.33 pt	2.4 pt
	Clays	1.33 pt	4.8 pt
Rio Grande Valley of TX	Loams	0.66-1.33 pt	3.2 pt
	Clays	1.33 pt	4.8 pt
NM, High Plains, Rolling Plains, Edwards Plateau of TX, and Southwest TX	Sandy loam	0.66-1.0 pt	1.6 pt
	Loams	0.66-1.33 pt	2.4 pt
	Sandy clay loams	1.33 pt	2.4 pt
	Other clay soils	1.33 pt	3.2 pt

Postemergence Directed (AR, AZ, CA, LA, MS, NM, OK, TN, TX, and MO): Medal II 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. For residual preemergence control of weeds controlled by Medal II 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 II EC, provided the maximum label rate of any product is not exceeded. Do not apply over the top of cotton or injure the crop.

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

Precautions: (1) To avoid concentration in the seed furrow, do not make broadcast applications of Medal II 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 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.

Restrictions: 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

... to maintain a uniform suspension. Do not use ...

Table X. Medal II EC + Cotoran DF – Cotton

Soil Texture	Broadcast Rates Per Acre: Medal II EC (pt) Area 1*	Medal II EC (pt) Area 2**	Cotoran DF*** (lb)
Sand, loamy sand	[illegible]	DO NOT USE	
Sandy loam	0.5-1.0	0.8-1.0	1.2
Loam, silt loam, silt	0.66-1.33	1.0-1.33	[illegible]
Fine soil	1.0-1.33	1.33	1.9-2.4

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

**Area 2 = Eastern OK, Gulf Coast, Rio Grande Valley and Eastern TX

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

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

TANK MIXTURE OF MEDAL II EC OR MEDAL II EC + COTORAN WITH GRAMOXONE ... BRANDS, OR ROUNDUP BRANDS FOR MINIMUM-TILLAGE OR NO-TILLAGE ...

... either Medal II EC or Medal II EC + Cotoran ...

... Medal II EC + Cotoran sections, respectively ...

... product used in combination ... Refer to Mixing Instructions under ...

... restrictions, and all other precautions and limitations ...

... Cotoran DF section.

Application: Apply before, during, or after planting, but before the cotton emerges. Apply Medal II EC at 0.8-1.0 pints per acre in sandy loams, medium, and fine-textured soil. Refer to Table 6 for the Cotoran DF rates.

Grandfather Brands: Apply in a band on the product label. The treatment will not control weeds taller than 6 inches.

Restrictions: Do not apply combinations that are not a smoking or suspension type liquid fertilizer, 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.

Restrictions: Do not apply Medal II EC + Cotoran DF + Roundup in tank mixture because of compatibility problems.

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

Precautions: (1) Heavy rainfall or irrigation soon after application may result, especially in poorly drained areas where water stands for several days or where the seeding rate has not been properly closed. (2) Refer to the Cotoran label and the Tank Mixture with Cotoran DF section of this label for further instructions, precautions and limitations. (3) Do not use in Garza County.

TANK MIXTURE WITH MSMA, MSMA + CAPAROL, OR MSMA + COTORAN

Medal II EC may be tank mixed with MSMA in water and applied postemergence directed for control of emerged weeds. Refer to the MSMA product label and product postemergence control of weeds emerged by Medal II 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, MO, OK, SC, TN, TX/OA, and Southeast of MO): Apply Medal II 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 II EC in this section for Cotton – Medal II EC Alone – Postemergence. Do not apply after first cotton blooms. These treatments may be applied over previous registered treatments, including Medal II EC, provided the maximum label rate of any product is not exceeded. Cotoran or Caparol may be added to the Medal II EC + MSMA tank mix mixture according to the directions for application to cotton at least 3 inches tall. When these mixtures are used, follow the mixing instructions for Medal II EC + Caparol or Cotoran and then add the MSMA product.

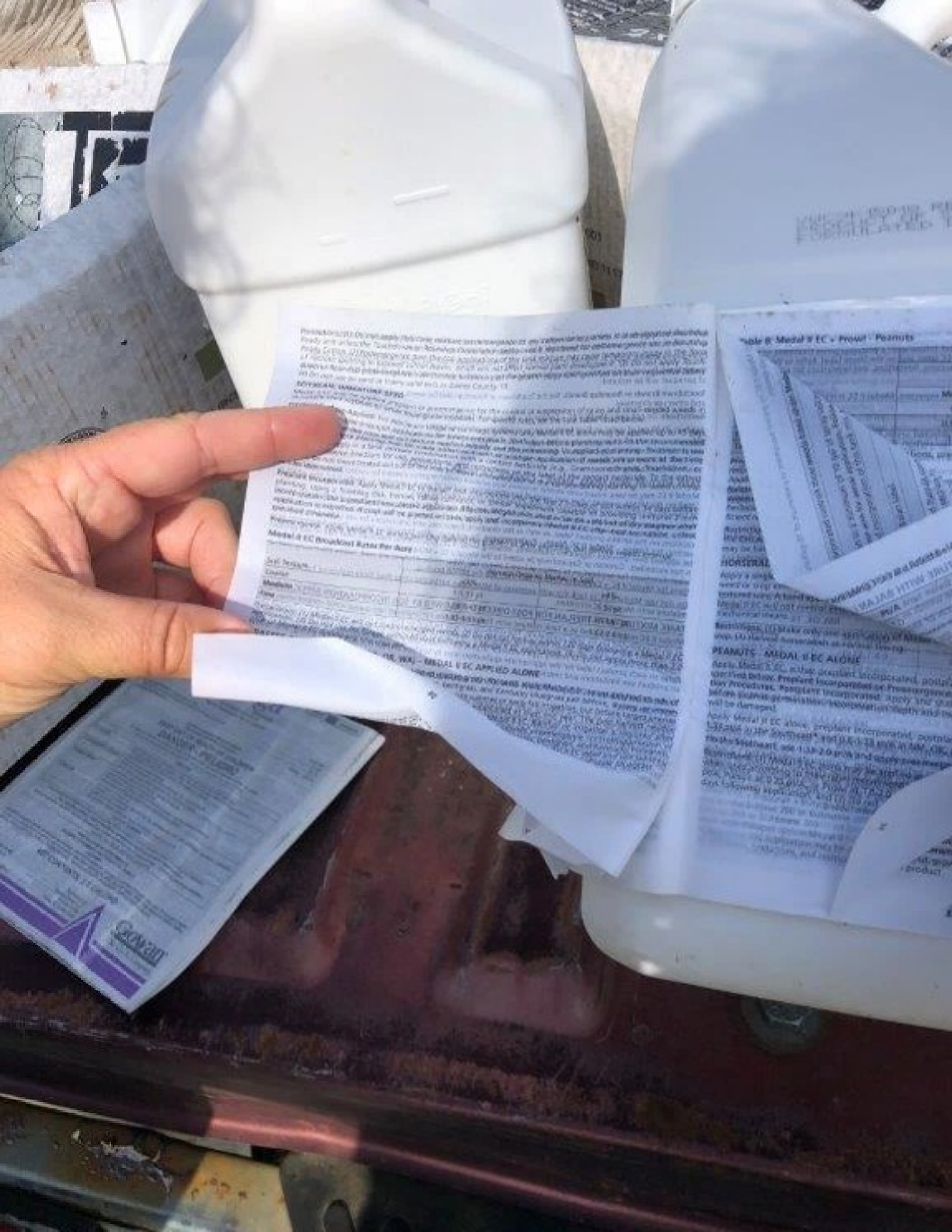
Do not use Medal II EC in tank mix with pint rates of MSMA plus herbicides other than those registered for use in tank mixture with Medal II EC on cotton.

TANK MIXTURE WITH TREFLAN FOR POST-DIRECTED FOLLOWED BY SOIL INCORPORATION APPLICATIONS

Medal II EC may be applied as a tank mixture with Treflan in cotton for improved late-season weed control when used as an incorporated fall or spring application. This combination may be applied after the cotton is at least 3 inches tall and has reached the 8-10-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 the 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 II 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 label and for residual preemergence control of weeds listed on the Medal II EC label. See the Cotton – Medal II EC Alone – Postemergence section of this label for rates and timings of Medal II EC and follow the Touchdown or Roundup label for their respective rates, application timing, and restrictions. Do not add additional spray adjuvants, surfactants, fertilizer additives, or pesticides to this tank mixture. If applied postemergence over the top or an acceptable injury may occur. Refer to the Touchdown brand or Roundup brand label and follow appropriate use directions, application procedures, precautions, and limitations.


Medal II EC Broadcast Rate Per Acre
PEANUTS - MEDAL II EC ALONE

Apply Medal II EC by ground equipment in a minimum of 10 gallons of water per acre.

Tolerant Crop Grown for Seed	PHA
Fine fescue species	0
Tall fescue	0
Bermudagrass	0
Kentucky bluegrass	0
Orchardgrass	0
Ryegrass species	0

TANK MIXTURE OR SEQUENTIAL WITH PURSUIT

Precautions: (1) Apply Medal II EC only once per crop year. (2) Do not apply after the Boot stage. (3) Do not apply any other pesticides or the addition of fertilizer, surfactants, or herbicide adjuvants in the tank mixture with Medal II EC. Application to perennial ryegrass and fine fescue stands under stress may cause crop injury. (4) If weed escapes occur following application of a postemergence herbicide, may be required for partial escapes. Follow existing with an application of a postemergence herbicide, and limitations on the order of the postemergence herbicide. (5) Control may be decreased if excessive straw from the previous harvest is present at application and/or severe crop lodging or irrigation occurs.

Restrictions: To avoid possible illegal residues: (1) Do not graze forage regrowth for 60 days following application with Pursuit. (2) If the Cattle/Dairy 127 is grown and in the Cattle/Dairy, do not graze forage regrowth for 90 days following application. (3) Hay may be harvested short for between seed harvest and the next application of Pursuit.

HORSERADISH

Apply a single application of Medal II EC at a broadcast rate of 1.0-1.33 pt/A to the soil surface after planting, but before weed or crop emergence (i.e., preemergence). Use lower rates on soils receiving less rainfall and higher rates on heavier textured soils. A band application may also be used, applying proportionately less spray mixture on the area actually treated. Medal II 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 II EC per crop. (2) Do not apply more than 1.33 pt/A of Medal II EC per crop. (3) Harvest horseradish as in soil dining.

PEANUTS - MEDAL II EC ALONE

Apply Medal II EC, either preplant incorporated, postplant incorporated, or preemergence, using the appropriate rate specified below. **Preplant Incorporated or Preemergence:** Follow instructions for use of Medal II EC alone under **Application Procedures**. **Postplant Incorporated:** Apply and shallowly incorporate Medal II 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.

Apply Medal II EC alone, preplant incorporated, postplant incorporated, or preemergence **[illegible]** 1.33 pt/A in the Southeast* and 0.67-1.33 pt/A in NM, OK, and TX.

*In the Southeast, use 1.33-2.0 pt/A and apply preemergence for early control in Florida or postemergence [illegible]

Restrictions: (1) Medal II EC alone may be applied as directed after any other herbicide preplant incorporated treatment when according to the label recommendations. Prefar at 3.0-4.0 qt/A, Treflan EC at 1.5 pt/A, Sonalan at 1.25-1.5 pt/A, Prowl at 0.25 pt/A, or Prowl at 1.0-2.0 pt/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.

TANK MIXTURE WITH BALAN L.C.

Medal II EC + Balan tank mixture applied preplant incorporated controls those weeds listed under **Medal II EC Applied Alone** and those weeds as listed on the Balan label.

Apply 1.0-1.33 pt/A of Medal II EC + 3.0-4.0 qt/A of Balan in a minimum of 10 gal of spray volume per acre for ground application or in a minimum of 5.0 gal 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 II EC + Balan up to 14 days prior to planting.

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

TANK MIXTURE OR SEQUENTIALLY WITH PURSUIT

The tank mixture or sequential treatment of Medal II EC and Pursuit controls all weeds controlled by Medal II EC alone and by Pursuit alone. Refer to the **Medal II EC Applied Alone** section for weeds controlled by Medal II 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 II EC will not control emerged weeds.

TANK MIXTURE WITH SONALAN

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

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

Table 7: Medal II EC + Sonalan – Peanuts

	Broadcast Rates Per Acre			
	Southeast		NM, OK, TX	
Soil Texture	Medal II EC	Sonalan	Medal II EC	Sonalan
COARSE	1.0-1.33 pt	1.25-2.0 pt	0.8-1.33 pt	1.25-2.0 pt
MEDIUM	1.0-1.33 pt	1.75-2.5 pt	0.8-1.33 pt	1.75-2.5 pt
FINE	1.0-1.33 pt	2.25-3.0 pt	1.0-1.33 pt	2.25-3.0 pt

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

TANK MIXTURE WITH PROWL

Medal II EC + Prowl applied preplant incorporated controls all weeds controlled by Medal II EC alone plus Texas panicum, field sandbur, johnsongrass from seed, lambsquarters, kochia, annual spurge, and other species on the Prowl label. Apply Medal II EC + Prowl by ground or by aerial equipment within 14 days before planting, incorporate into the top 1-2 inch of soil before planting, and within 7 days of application, using a tilling 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 II EC + Prowl preplant incorporated, using the appropriate rates from Table 8.

Table 8: Medal II EC + Prowl - Peanuts

	Broadcast Rates Per Acre	
	NM, OK, TX	Other Peanut Growing States
Soil Texture	Medal II EC + Prowl	Medal II EC + Prowl
Sand, loamy sand	0.8 + 1.0-1.5 pt	1.0-1.33 + 1.5-2.0 pt
Sandy loam	0.8-1.0 + 1.0-1.5 pt	1.0-1.33 + 1.5-2.0 pt
Fine soil	1.33 + 1.0-1.5 pt	1.33 + 1.5-2.0 pt

Restrictions: Follow all use directions, limitations, precaution, and information regarding application to peanuts on the Medal II EC and Prowl labels.

TANK MIXTURE WITH GRAMOXONE BRANDS

Medal II EC + Gramoxone brands applied at ground cracking will control or suppress small (1- to 6-inch) emerged annual grass and broadleaf weeds and provide residual control of weed species listed in the **Medal II EC Applied Alone** section of this label. Apply Gramoxone brands plus the appropriate Medal II EC rate from the **Peanuts – Medal II EC Alone** section in a minimum spray volume of 20 gal/A with ground equipment. Refer to the Gramoxone brands label and follow all directions, limitations, and restrictions.

TANK MIXTURE WITH GRAMOXONE BRANDS + BASAGRAN

The addition of Basagran to the Medal II EC + Gramoxone brands mixture will result in improved control of such problem broadleaf weeds as sicklepod, cocklebur, smartweed, and prickly sida. Medal II EC + Gramoxone brands + Basagran applied at ground cracking will control or suppress small (1- to 6-inch) emerged annual grass and broadleaf weeds and provide residual control of weed species listed in the **Medal II EC Applied Alone** section of this label. Apply Basagran + Gramoxone brands with the appropriate Medal II EC rate from the **Peanuts – Medal II EC Alone** section in a minimum spray volume of 20 gal/A with ground equipment. Refer to the Gramoxone brands and Basagran labels and follow all directions, limitations, and restrictions.

TANK MIXTURE WITH GRAMOXONE BRANDS + BUTYRAC 200 OR BUTOXONE 200

The addition of Butyrac 200 or Butoxone 200 to the Medal II EC + Gramoxone brands mixture will result in improved control of such problem broadleaf weeds as sicklepod, morningglory, and cocklebur. Medal II EC + Gramoxone brands + Butyrac 200 or Butoxone 200 applied at ground cracking will control or suppress small (1- to 6-inch) emerged annual grass and broadleaf weeds and provide residual control of weed species listed in the **Medal II EC Applied Alone** section of this label. Apply Gramoxone brands + Butyrac 200 or Butoxone 200 with the appropriate Medal II EC rate from the **Peanuts – Medal II EC Alone** section in a minimum spray volume of 20 gal/A with ground equipment. Refer to the Gramoxone brands and Butyrac 200 or Butoxone 200 labels and follow all directions, limitations, and restrictions.

TANK MIXTURE WITH BASAGRAN

Medal II EC + Basagran applied at ground cracking will control species on the Basagran label and provide residual control of species listed in the **Medal II EC Applied Alone** section of this label. Apply 1.0-2.0 pt/A of Basagran in 20 gal/A, depending on weed species and stage of growth as specified on the Basagran label with the appropriate Medal II EC rate from the **Peanuts – Medal II EC Alone** section. 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 WITH BASAGRAN + BUTYRAC 200 OR BUTOXONE 200

Medal II EC + Basagran + Butyrac 200 or Butoxone 200 applied at ground cracking will control species on the Basagran label and on the Butyrac 200 or Butoxone 200 labels, especially morningglories. Apply 1.5-2.0 pt/A of Basagran + 8.0 fl oz/A of Butyrac 200 or Butoxone 200 in 20 gal/A, depending on weed species and stage of growth as specified on the Basagran label, with the appropriate Medal II EC rate from the **Peanuts – Medal II EC Alone** section. 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.

SEQUENTIALLY WITH STORM®

Apply Medal II EC according to the directions for **Medal II EC Alone** and follow with a postemergence treatment of Storm according to its label for the control of weeds listed on the Medal II EC label and on the Storm label. Refer to the **Medal II EC - Peanuts - Alone** section and to the Storm label and follow all directions, limitations, and restrictions for each product.

MULTIPLE APPLICATIONS

If the weed pressure is heavy or some species suspected to be resistant are expected, Medal II EC is most effective when used in a multiple application program.

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

Preplant Incorporated: Apply Sonalan 10 EC preplant incorporated as directed under **Peanuts - Medal II EC Alone**, or apply Medal II EC - Balan preplant incorporated as directed previously in this section. Refer to the respective section for weeds controlled.

OR

Preemergence to before "ground cracking": Apply Medal II EC any time Medal II EC is allowed (before "ground cracking") at 1.0-2.0 pt/A for extended control of weeds not yet emerged. Do not use Medal II EC after peanut emergence if peanuts have emerged; use Dual Magnum according to its label. **Peanuts - Combinations - Multiple Applications** follow early in the application program.

Lay-by: Do not use Medal II EC. Apply Dual Magnum at lay-by as directed under the **Peanuts - Alone** section of the Dual Magnum label.

Restrictions: (1) Do not apply more than the maximum of 3.5 lb ai of active ingredient of Medal II EC per acre during any one year. An illegal residue may result if Dual Magnum is used as a sequential treatment, the lb ai of active ingredient (1.0 pt x 0.95 lb) plus the lb ai of active ingredient of Medal II EC should not exceed 2.67 lb. Do not use Medal II EC or Dual 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)

Fall Application: Apply Medal II EC preplant incorporated or preemergence to before "ground cracking" as directed under **Peanuts - Medal II EC Alone** or apply Medal II EC - Balan preplant incorporated or preemergence to before "ground cracking" as directed under **Peanuts - Combinations - Multiple Applications**. Do not use Medal II EC after peanut emergence if peanuts have emerged; use Dual Magnum according to its label.

2nd Application: Do not use Medal II EC. Apply Dual Magnum at lay-by as directed under the **Peanuts - Alone** section of the Dual Magnum label. The only other use of Dual Magnum is to apply it as a preemergence treatment as directed under the **Peanuts - Alone** section of this label. If weeds are expected to be a problem, Refer to the Dual Magnum Applied Alone section of this label.

Restrictions: (1) Do not apply more than the maximum of 2.67 lb ai of active ingredient of Medal II EC per acre during any one year or illegal residue may result. The rate of Dual Magnum is used as a sequential treatment, the lb of active ingredient (1.0 pt x 0.95 lb) plus the lb of active ingredient of Medal II EC should not exceed 2.67 lb. Do not use Medal II EC or Dual 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.

BEANS, PEAS, AND LENTILS - MEDAL II EC ALONE

Beans, peas, and lentils including garbanzo or southern beans, kidney beans, lima beans, navy beans, pea (dry bean), southern peas such as blackeye, pinkeye, cowpea, crowder, black beans, pinto beans, snap beans (green, wax, stringless), and lentils (except white or white sweet and grain sorghum)

Fall Application:

1) Apply after September 30 in NH, ND, MN, WI, and north of Route 30 in IA and north of Route 50 in IL.
2) Apply after October 15 north of Route 136 in IL.
3) Apply after October 31 north of Route 136 in IL.

Table 8: Medal II EC + Prowl - Peanuts

	XT	XD	Mid
Bike grass, Beak			
Mustard			
Nutsedge, Purple			
Nutsedge, Yellow			
Pigweed, Redroot			
Pigweed, Smooth			
Purslane, Common			
Sesbania, Hemp			
Sicklepod			
Smartweed, Pennsylvania			
Spurge, Prostrate			
Spurge, Spotted			
Tropic croton			
Velvetleaf			
Waterhemp, Palmer			
Waterhemp, Tuberculate			

ONCE ISSUED REL DATE 11-19
PRODUCT OF SWITZERLAND
FORMULATED IN THE USA

In all locations, apply to crop stubble after harvest when the sustained soil temperature at a 4-inch depth is above 50°F and below 75°F. 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 4-6 inches. Minimize factors and edge formation in the tillage operation. **Restrictions:** 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 II EC either preplant incorporated or preemergence, using the appropriate rate specified below. **Preplant Incorporated or Preemergence:** Follow instructions for use of Medal II EC alone under **Application Procedures**. On coarse-textured soils with less than 2% organic matter, apply 1.0-1.33 pt/A of Medal II EC or 1.33 pt/A if organic matter is 5% or greater. On medium soils, apply 1.33-1.67 pt/A of Medal II EC. On fine soils, apply 1.33-1.67 pt/A if organic matter contains is less than 3% or 1.67-2.0 pt/A if organic matter content is 3% or greater.

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

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

BEANS, PEAS, AND LENTILS – MEDAL II EC COMBINATIONS

Restrictions: When applying Medal II 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 II EC alone and by Eptam alone. Refer to the **Medal II EC Applied Alone** section of this label for weeds controlled by Medal II EC alone and to the Eptam label for weeds controlled by Eptam.

Preplant Incorporated: Follow instructions for use of Medal II EC alone under **Application Procedures**. **Sequential:** Apply Eptam alone preplant incorporated as specified on that label. Follow with a preemergence application of Medal II EC, at rates specified for Medal II 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 3.4-5 pt/A of Eptam 7E* with Medal II EC as specified. On coarse soil, apply 0.8 pt/A of Medal II EC if organic matter content is less than 3% or 1.0 pt/A if organic matter content is 3% or greater. On medium soil, apply 1.0 pt/A of Medal II EC if organic matter content is less than 3%, or 1.33 pt/A if organic matter content is 3% or greater. On fine soil, apply 1.33 pt/A of Medal II EC if organic matter is less than 3%, or 1.33-1.67 pt/A if organic matter is 3% or greater.

*Refer to the Eptam label for rate limitations depending on crop planted area, and for special and varietal restrictions.

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

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

Medal II EC + Treflan tank mix applied preplant incorporated controls those weeds listed under **Medal II EC Applied Alone** and those weeds listed for Treflan alone on the Treflan label. Medal II 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 II EC + Treflan tank mix using the appropriate Medal II EC rate specified for Medal II 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.

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

POTATOES - MEDAL II EC ALONE

POTATOES - MEDAL II EC COMBINATIONS

TANK MIXTURE WITH SENCOR

Table 9: Medal II

Table 10: Medal II EC

TANK MIXTURE WITH

PUMPKIN - MEDAL II EC

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

Soil Texture	Broadcast Rates Per Acre			
	1% to Less Than 3% Organic Matter		3-5% Organic Matter	
	Medal II EC	Lorox*	Medal II EC	Lorox*
COARSE (Sand, loamy sand)	1.0 pt	1.0-1.5 lb	1.33 pt	1.5-2.0 lb
MEDIUM (Loam, silt loam, sil)	1.33 pt	1.5-2.0 lb	1.67 pt	2.0-2.5 lb

*When using other formulations of Lorox, use equivalent rates. One oz of Lorox L equals 1.0 lb of Lorox DF.

Refer to the Medal II EC and Lorox labels for precautionary statements, restrictions, application information and weeds controlled.

TANK MIXTURE WITH PROWL 4E

In addition to the weeds controlled by Medal II EC alone, this tank mixture with Prowl 4E controls such problem species as kochia, lambsquarters, pursiane, annual sprange, stinging nettle, and others specified on the Prowl 4E Alone label. Apply Medal II EC + Prowl 4E preemergence, preemergence incorporated, or early postemergence, according to the specific direc- tions on the Prowl 4E label, using the rates in Table 10.

Table 10: Medal II EC + Prowl 4E - Potatoes

Soil Texture	Broadcast Rates Per Acre	
	Less Than 3% Organic Matter	More Than 3% Organic Matter
	Medal II EC + Prowl 4E*	Medal II EC + Prowl 4E*
COARSE	1.0-1.33 pt + 1.0-1.5 pt	1.0-1.33 pt + 1.5-1.5 pt
MEDIUM	1.33 pt + 1.5-2.0 pt	1.33-1.67 pt + 2.0-2.5 pt
FINE	1.33-1.67 pt + 2.0-2.5 pt	1.67-2.0 pt + 3.0 pt

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

Refer to the Medal II 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 II EC alone, this tank mixture will control those species on the Prowl 4E and Eptam labels. Refer to the Medal II EC + Prowl 4E labels for rates of these products and add Eptam 7E at 3.5-7.0 pt/A, depending on geographical area. Refer to the respective Medal II 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 II EC ALONE

Preemergence

Apply Medal II EC preemergence (before the weeds have emerged) at 1.0-1.33 pt/A as an [illegible] application. [illegible] of pumpkins, leave 1 foot of untreated area over the row or 6 inches to each side of the [illegible] emerged pumpkin foliage (postemergence, inter-but means not directly over the planted seed or [illegible] the lower Medal II EC rate on soils light in texture (loamy sand or lighter) and low in soil [illegible] Medal II EC. Medal II EC alone may be used where soil [illegible] cause the risk of injury to [illegible] and loss of yields to the pumpkin [illegible] closer than 30 days before pumpkin harvest.

Medal II 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 – MEDAL II EC ALONE

Apply Medal II 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 product on the area actually treated. Medal II 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 II EC per crop. (2) Do not apply more than 1.33 pt/A of Medal II EC per crop. (3) Do not harvest rhubarb within 62 days of the Medal II EC application.

SAFFLOWERS - MEDAL II EC ALONE

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

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

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

Apply Medal II EC, either preplant surface, preplant incorporated, preemergence, or postemergence using the appropriate rate specified below. Apply Medal II EC alone only when the sorghum seed has been properly treated with Concep seed treatment. Preplant or preemergence application of Medal II EC not treated with Concep seed treatment injures the sorghum.

Fall Application for Italian Ryegrass Control: Medal II EC may be applied for residual control of glyphosate-resistant Italian ryegrass (*Lolium multiflorum*). Apply Medal II EC at 1.33-1.67 pt/A in the fall (September 1-December 1) after harvest of the previous crop and prior to Italian ryegrass emergence. Use the lower Medal II 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 II EC.

Roundup Ready Grain Sorghum. Growers using Roundup brands can be tank mixed with Medal II EC for specific rates, application instructions, and restrictions. Other registered herbicides may be tank mixed with Medal II EC for control or improved control of other weeds present at the time of application. Refer to the Grainsome Brands label for specific rates, application instructions, and restrictions. Refer to 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 II EC under **Application Procedures** section on this label. For minimum-tillage or no-tillage systems only, Apply Medal II EC up to 45 days before planting in CO, IA, IL, KS, MO, NE, and CO. 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 pt/A of Medal II EC on medium soils or 1.67 pt/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 pt/A of Medal II EC on coarse soils not more than 2 weeks prior to planting, under dry conditions, irrigation after application is recommended to move Medal II EC into the soil.

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

Postemergence: Refer to instructions for use of Medal II EC under **Application Procedures** section on this label. Medal II 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 II EC will not control emerged weeds. Therefore, emerged weeds must be controlled by cultural or chemical means. When applied alone, Medal II EC will be late to emerged sorghum. The risk of sorghum injury increases when 45 weeks or more elapse between the time AMS, UAN, or fertilizers are applied with Medal II EC.

Precautions: (1) If sorghum seed is not properly treated with Concep seed treatment, preplant and preemergence applications of Medal II EC may cause severe injury or injury may occur following preplant and preemergence applications of Medal II EC. The crop will normally outgrow injury, but severely injured plants may not recover. (2) Under high soil moisture conditions prior to sorghum emergence, injury may occur following preplant and preemergence application of Medal II EC. The crop will normally outgrow injury, but severely injured plants may not recover. (3) Do not use Medal II EC on sorghum grown under drip/mulch tillage, or injury may occur. (4) Based on the label, preplant surface treatments do not raise more than one application per year, or illegal residues may result. (5) Do not apply Medal II EC postemergence within 75 days of harvest.

HERBICIDE

KEEP OUT OF REACH OF CHILDREN.

GRAIN OR FORAGE SORGHUM (SEED TREATED WITH CONCEP) - MEDAL II EC TANK MIXTURES

Medal II EC preplant or preemergence (prior to sorghum emergence) tank mixtures with AAtrex may be applied on fuel fertilizer. Apply Medal II EC preplant or preemergence in tank mixtures only when the sorghum seed is properly treated with Concep seed treatment. Preplant or preemergence applications of Medal II EC to sorghum treated with Concep seed treatment will result in crop death.

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

Precautions: (1) Applications of Medal II EC + AAtrex on highly alkaline soils or on eroded areas where calcareous subsoil are exposed may cause sorghum injury. (2) If sorghum seed is not properly treated with Concep, Medal II EC + AAtrex may severely injure the crop. (3) Under high soil moisture conditions prior to sorghum emergence, injury may occur following preplant and preemergence application of Medal II EC + AAtrex. The crop will normally outgrow this effect. (4) Do not use Medal II EC + AAtrex on sorghum grown under dry mulch tillage, or injury may occur. (5) Except for the spot 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 II EC alone, Medal II EC + AAtrex also controls the following broadleaf weeds when applied either preplant surface, preplant incorporated, or preemergence: cocklebur, common purslane, jimsonweed, lambsquarters, morningglory, ragweed, smartweed, and velvetleaf.

Preplant Surface-Applied: Refer to instructions for use of Medal II EC under **Application Procedures** section on this label. For minimum tillage or no-tillage systems only: Medal II EC + AAtrex may be applied up to 45 days prior to planting in AL, IL, Eastern KS, MO, NE, and SD. Use only split applications for treatments made 30-45 days prior to planting: with 1/3 of the broadcast rate applied initially and the remaining 1/3 at planting. Apply 1.5 pt/A of Medal II EC + 1.7-2.0 lbs/A of AAtrex Nine-O* on medium soils with 1.5% organic matter or greater. Apply 1.5 pt/A of Medal II 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 pt/A of Medal II 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 II EC + AAtrex into the soil.

Precautions: To avoid crop injury, (1) Do not use on coarse soils, and (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 II EC under **Application Procedures** on this label. On medium soils with 1.5% organic matter or greater, apply 1.0 pt/A of Medal II 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 II EC + 1.3 lbs/A of AAtrex Nine-O on fine soils with 1.5% organic matter or greater, apply 1.2-1.33 pt/A of Medal II EC + 1.6-1.8 lbs/A of AAtrex Nine-O.

*When using AAtrex 4L, use equivalent rates. One lb of AAtrex Nine-O equals 1.6 pt 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 AK, OK, or TX, except in northeast OK and the TX Blackland areas, and (4) Do not apply preplant incorporated in AZ or the Imperial Valley of CA.

TANK MIXTURE OF MEDAL II EC OR MEDAL II EC + AATREX, WITH GRAMOXONE BRANDS, 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 control of broadleaf weeds can be improved if Gramoxone brands, Landmaster BW, Touchdown or Roundup may be tank mixed with Medal II EC or Medal II EC + AAtrex. See Comment No. 2 following Table 2 for Medal II EC or Medal II EC + AAtrex. See Comment No. 7 following Table 2 for Medal II EC + AAtrex. Refer to the tank mixture section of the label under the respective sections for information on preemergence control of the weeds listed on this label.

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 brands, Landmaster BW, Touchdown brands, or Roundup brands and apply as directed on the product labels.

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

Landmaster BW 22-04 [illegible] 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 rate, and other use directions.

SWEET SORGHUM (SEED TREATED WITH CONCEP)

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

Soil Applied: Apply Medal II EC to 30-45 days before planting. Use only split applications for treatments made 30-45 days prior to planting, with 1/3 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 in a split or single application. Under dry conditions, irrigation after application is recommended to move Medal II EC into the soil.

Medal II EC Rates for Soil Applications to Sweet Sorghum

Soil Type	30-45 Days Prior to Planting[1]	<30 Days Prior to Planting	At Planting[2]
Coarse	Not Recommended	1.33 pt/A	1.0-1.33 pt/A
Medium	[illegible]	1.5 pt/A	1.33-1.5 pt/A
Fine	1.67 pt/A	1.67 pt/A	1.33-1.67 pt/A

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

Preplant incorporated or preemergence.

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

Medal II EC Rates for Postemergence Applications to Sweet Sorghum

Soil Type	Postemergence Rate
Coarse	1.0-1.33 pt/A
Medium	1.33 pt/A
Fine	1.33 pt/A

Precautions: (1) If sweet sorghum seed is not properly treated with Concep seed treatment, soil applications of Medal II 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 II EC. The crop will normally outgrow this effect. (3) Do not use Medal II EC on sorghum grown under dry-mash silage, or injury may occur. (4) Only one application per season is allowed. Medal II EC may be applied either as a soil applied treatment or a postemergence treatment, but not both. (5) Do not apply Medal II EC postemergence within 30 days of harvest.

SOYBEANS – MEDAL II EC ALONE

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

Fall Application for Spring Weed Control:

1. Apply after September 30 in ND, SD, MN, WI, and north of Route 30 in IA.
2. Apply after October 15 north of Route 91 in NE and south of Route 30 in IA.
3. 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 50° and falling. In minimum-till or no tillage systems on soils having greater than 2.5% organic matter, use 1.67-2.0 pt/A

HERBICIDE

KEEP OUT OF REACH OF CHILDREN.

CAUTION

PRECAUTIONARY STATEMENTS

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 backsiphoning 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.

Medal II EC on medium textured and 2.0 pt/A of Medal II 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 2.1 inches. Minimize furrow and ridge formation in the tillage operations.

Restrictions: If a spring application is made, the total rate of the fall plus spring applications must not exceed the maximum total rate for soybeans of 2.5 pt/A depending on soil texture, or illegal residues may result.

Fall Application for Italian Ryegrass Control: Medal II EC may be applied for residual control of glyphosate-resistant Italian ryegrass (Lolium multiflorum). Apply Medal II EC at 1.33-1.67 pt/A in the fall (September 1-December 1) after harvest of the previous crop and prior to Italian ryegrass emergence. Use the lower Medal II 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 2.1 inches if tillage follows the application of Medal II EC. For fall applications after emergence of glyphosate-resistant Italian ryegrass, Gramoxone brands can be tank mixed with Medal II EC for control emerged ryegrass. Refer to the Gramoxone brands label for specific rates, application instructions, and restrictions. Other registered herbicides may be tank mixed with Medal II EC for control of improved control of other weeds present at the time of application. Precautions: (1) Do not apply Medal II EC to frozen ground. (2) If a spring application is made, the combined total amount of Medal II EC applied in the fall plus the spring must not exceed the maximum seasonal S-metolachlor rate for soybeans (2.5 pt/A, depending on soil texture), or illegal residues may result.

Preplant Surface - Spring Application: Use on medium and fine soils with minimum-tillage or no-tillage systems in CO, CT, DE, IA, IL, IN, KS, KY, MA, MD, ML, 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 II EC (1.67 pt/A on medium soils and 2.0 pt/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 pt/A of Medal II EC on coarse soils not more than 2 weeks prior to planting.

Restrictions: (1) On soybeans, use up to 2.5 pt/A of Medal II EC preplant incorporated or preemergence treatment on soils having an organic matter content between 6% and 20%. (2) The total Medal II EC rate applied to soybeans during any one crop should not exceed 2.5 pt/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 pt/A of Medal II EC if organic matter content is less than 3%, or 1.33 pt/A if organic matter content is 3% or greater. On medium soils, apply 1.33-1.67 pt/A of Medal II EC. On fine soils, apply 1.33-1.67 pt/A of Medal II EC if organic matter content is less than 3%, or 1.67-2.0 pt/A if organic matter content is 3% or greater.

Restrictions: (1) On soybeans, use up to 2.5 pt/A of Medal II EC preplant incorporated or preemergence treatment on soils having an organic matter content between 6% and 20%. (2) The total Medal II EC rate applied to soybeans during any one crop should not exceed 2.5 pt/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 pt/A as a postemergence treatment to soybeans from emergence up through the third ... Medal II 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 II EC can also be applied as part of a sequential soybean weed control program. If Medal II EC was applied as a preplant surface, preplant incorporated, or a preemergence treatment, a second treatment of Medal II EC can be applied postemergence provided that the total Medal II EC rate during any one crop does not exceed 2.5 pt/A.

Restrictions: To avoid possible illegal residues when Medal II EC is applied postemergence to soybeans: (1) Do not apply more than 1.33 pt/A postemergence. (2) The total Medal II EC rate applied preplant, preemergence or postemergence to soybeans during any one crop should not exceed 2.5 pt/A (2.4 lb ai/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 II EC.

SOYBEANS - MEDAL II EC COMBINATIONS

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

Restrictions: For all of the following combinations, on soybeans use up to 2.5 pt/A Medal II EC preplant incorporated or preemergence treatment on soils having an organic matter content between 6% and 20%. The total Medal II EC rate applied to soybeans during any one crop year should not exceed 2.5 pt/A.

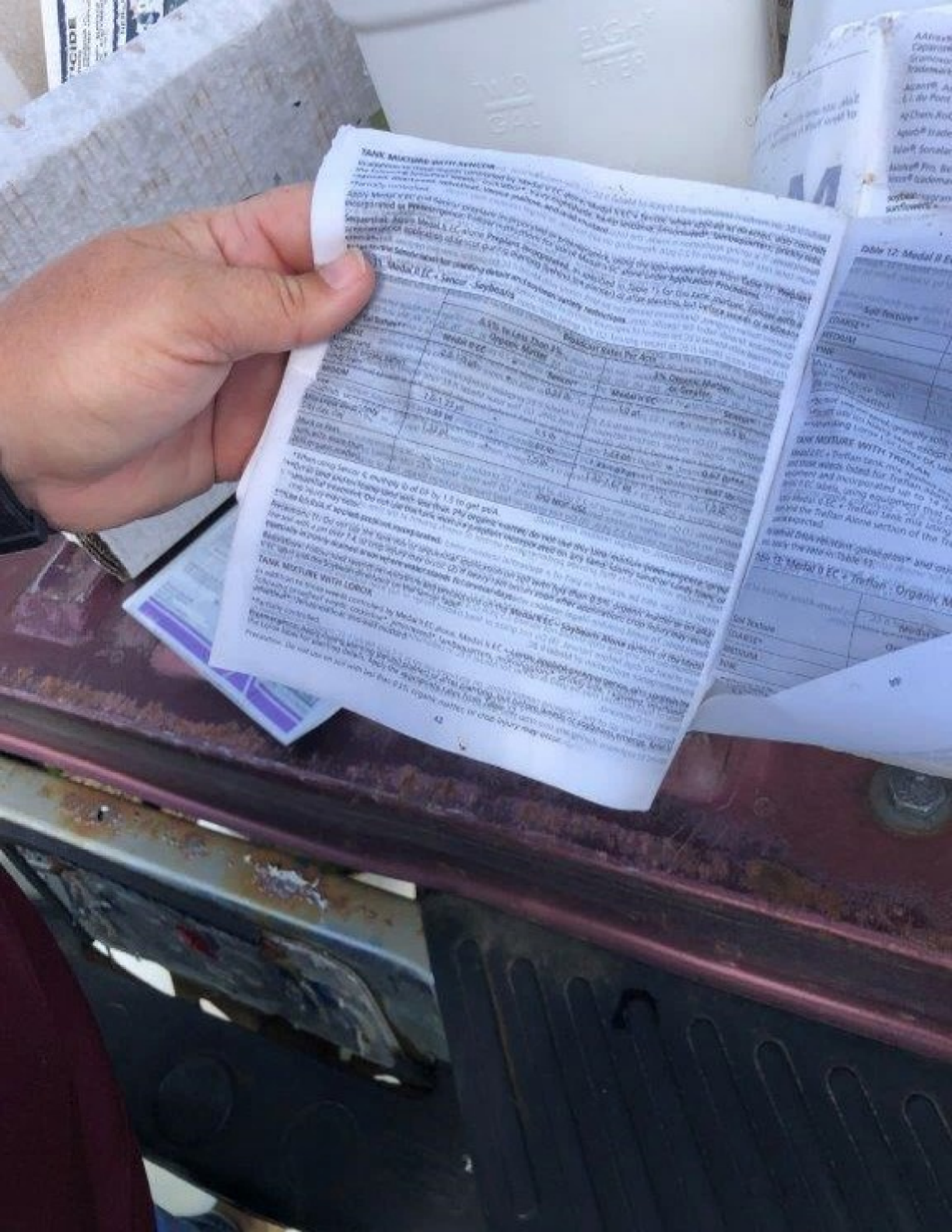


Table 12: Medal II EC + Lorox - Soybeans

	Broadcast Rates Per Acre				
	0.5% to Less Than 3% Organic Matter			3% Organic Matter or Greater	
Soil Texture*	Medal II EC	+	Lorox DF***	Medal II EC	+	Lorox DF***
COARSE**	0.8 pt	+	1.0 lb	1.0 pt	+	1.0-1.5 lb
MEDIUM	1.0 pt	+	1.0-1.5 lb	1.33 pt	+	1.5-2.0 lb
FINE	1.33 pt	+	2.0 lb	1.33-1.67 pt	+	2.5-3.0 lb
Muck or Peat (Soils with more than 20% organic matter)	DO NOT USE					

*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.

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

TANK MIXTURE WITH TREFLAN

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

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

In lieu of 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 II EC + Treflan - Organic Matter Content Less Than 3%

	Broadcast Rates Per Acre		
	Medal II EC	Treflan E.C.**	
		Organic Matter	
Soil Texture	Organic Matter Less Than 3%	Less Than 2%	2-3%
COARSE*	0.8-1.0 pt	1.0 pt	1.5 pt
MEDIUM	1.0 pt	1.5 pt	1.5 pt
FINE	1.33 pt	2.0 pt	2.0 pt

*Where a range of rates is given for Medal II 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 pt of Treflan E.C. by 1 for Treflan MTF and by 0.8 for Treflan 5.

Restrictions: Follow the most restrictive limitations and precautions on the **Soybeans – Medal II EC Alone** section of the Medal II EC label and the Soybean directions on the Treflan labels.

TANK MIXTURE WITH SCEPTER

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

[illegible] Medal II EC + Scepter preplant incorporated or preemergence, using rates in Table 14. Follow use directions under [illegible] instructions on the Scepter label. For preplant incorporated applications, apply and incorporate within 30 [illegible] planting. Observe all other precautions and limitations on the Scepter labels.

Table 14: Medal II EC + Scepter - Soybeans

	Broadcast Rates Per Acre			
	Less Than 3% Organic Matter		3% or More Organic Matter	
Soil Texture	Medal II EC	Scepter	Medal II EC	Scepter
COARSE	0.8 pt	0.67 pt	1.0 pt	0.67 pt
MEDIUM	1.0 pt	0.67 pt	1.33 pt	0.67 pt
FINE	1.33 pt	0.67 pt	1.33-1.67* pt	0.67 pt
Muck or Peat (soils with more than 24% organic matter)	DO NOT USE			

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

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

TANK MIXTURE WITH CANOPY

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

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

Soil Texture	Organic Matter Less Than 3%	Organic Matter Less Than 3%	Organic Matter 3%
COARSE*	0.8-1.0 pt	1.0 pt	1.0 pt
MEDIUM	1.0 pt	1.0 pt	1.0 pt
FINE	1.33 pt	1.33 pt	1.33 pt

*Where a range of rates is given for Medal II EC, use the maximum rate where Trafflan 5 is used.

**When Trafflan MTF or Trafflan 5 is used, use comparable rates. Multiply pt of Trafflan F.C. or 1 for Trafflan MTF and pt of 0.8 for Trafflan 5.

Restrictions: Follow the most restrictive limitations and precautions on the Soybeans - Medal II EC Alone section of the Medal II EC label and the Soybean directions on the Trafflan label.

Table 15: Medal II EC + Canopy - Soybeans

	Broadcast Rates Per Acre		
	Less Than 3% Organic Matter	3% or More Organic Matter	
Soil Texture	Medal II EC	Medal II EC	Canopy
COARSE	0.8 pt	1.0 pt	*
MEDIUM	1.0 pt	1.33 pt	*
FINE	1.33 pt	1.33-1.67 pt	*

*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 fine, 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 II EC alone and by Command alone. Refer to the **Medal II EC Applied Alone** section for weeds controlled by Medal II EC and to the Command label for weeds controlled by Command.

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

***Restrictions:** Follow the most restrictive limitations and precautions on the **Medal II EC - Soybeans Alone** section of the Medal II EC label and the Soybean directions on the Command label, including rotational.

Table 16: Medal II EC + Command - Soybeans

	Broadcast Rates Per Acre			
	Medal II EC		Command 4E	
Soil Texture	0.5-3% Organic Matter	Greater Than 3% Organic Matter	Northern Area	Southern Area
COARSE	0.8 pt	1.0 pt	1.5-2.0 pt	2.0-2.5 pt
MEDIUM	1.0 pt	1.33 pt	1.5-2.0 pt	2.0-2.5 pt
FINE	1.33 pt	1.33-1.67 pt	1.5-2.0 pt	2.0-2.5 pt

TANK MIXTURE WITH SONALAN

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

Apply Medal II 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 pre application of Medal II EC during planting (before the planter) or after planting but before weeds o emerge.

Table 17: Medal II EC + Sonalan - Soybeans

	Broadcast Rates Per Acre			
	Less Than 3% Organic Matter		3% or More Organic Matter	
Soil Texture	Medal II EC	Sonalan	Medal II EC	Sonalan
Matter	1.67-2.33 pt	1.25-2.0 pt	1.33 pt	1.25-2.0 pt
Clay*	1.33-1.67 pt	1.75-2.5 pt	1.33-1.67 pt	1.75-2.5 pt
Silt*	1.33-1.67 pt	2.25-3.0 pt	1.67-2.0 pt	2.25-3.0 pt
Muck or Peat (soils with more than 20% organic matter)	DO NOT USE			

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

Restrictions: Follow the most restrictive limitations and precautions on the **Medal II EC – Soybeans Alone** section of the Medal II EC label and the Soybean directions on the Sonalan label.

TANK MIXTURE WITH PURSUIT

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

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

Table 18: Medal II EC + Pursuit - Soybeans

	Broadcast Rates Per Acre		
	Less Than 3% Organic Matter	3% or More Organic Matter	Less Than 3% – 3% or More Organic Matter
Soil Texture	Medal II EC	Medal II EC	Pursuit
COARSE	0.8 pt	1.0 pt	0.25 pt
MEDIUM	1.0 pt	1.33 pt	0.25 pt
FINE	1.33 pt	1.33-1.67 pt	0.25 pt

Sequential: Apply Medal II 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 II EC will improve the consistency and level of control from Pursuit on most grass species. Refer to the Pursuit postemergence label for listing of weeds controlled, application rate and growth stage limitations.

TANK MIXTURE WITH SENCOR, SCEPTER, LOROX, CANOPY, OR PURSUIT WITH GRAMOXONE BRANDS, 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 sod, or previous crop residues, the contact herbicides Gramoxone brands, Touchdown brands, or Roundup brands, may be added to a tank mix of either Medal II EC + Sencor, Medal II EC + Scepter, Medal II EC + Lorox, Medal II EC + Pursuit. When used as directed, the Gramoxone brands portion of the tank mixture will control weeds and suppresses many perennial weeds. Touchdown or Roundup combinations will control weeds and suppresses many perennial weeds when applied as directed on the Touchdown or Roundup label. The Medal II EC + Sencor, Medal II EC + Scepter, Medal II EC + Lorox, Medal II EC + Canopy, or Pursuit portion of the tank mixture provides pre-emergence control of the weeds. Refer to the tank mixture section for Medal II EC + Sencor, Medal II EC + Scepter, Medal II EC + Lorox, Medal II EC + Canopy, Medal II EC + Pursuit, respectively.

Refer to the label of each product used in combination and also to the plant-by-plant (or plant-by-plant) recommendation 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 brands, Touchdown brands, or Roundup brands and apply as directed on the product labels.

Gramoxone Brands: Apply as directed on the product label. This treatment will not control weeds rather than 61-mm.

Restrictions: Do not apply combinations containing Gramoxone brands 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 gal of water or fluid fertilizer per acre with ground equipment.

Medal II EC + Sencor + Gramoxone Brands, Touchdown Brands, or Roundup Brands

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

*When using Sencor 4 or Lexone® 4L, multiply lb of DF by 1.5 to get pt/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 II EC + Scepter + Gramoxone Brands, Touchdown Brands, or Roundup Brands

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

Restrictions: (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 II EC + Lorox + Gramoxone Brands, Touchdown Brands, or Roundup Brands

On coarse soils*, apply 1.0 pt/A of Medal II EC + 1.0-1.5 lb/A of Lorox DF**. On medium soils, apply 1.33 pt/A of Medal II EC + 1.0-2.0 lb/A of Lorox DF. On fine soils, apply 1.33-1.67 pt/A of Medal II EC + 2.0-3.0 lb/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 II EC + Canopy + Gramoxone Brands, Touchdown Brands, or Roundup Brands

Medal II EC + Pursuit + Gramoxone Brands, Touchdown Brands, or Roundup Brands

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

POSTEMERGENCE USE ON SOYBEANS - MEDAL II EC TANK MIXTURES

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

Medal II EC at 1.0-1.33 pt/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 II 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 II EC at 1.0-1.33 pt/A may be tank mixed with Pursuit at labeled rates and applied from emergence up through the third trifoliate leaf stage of soybeans. Medal II EC alone will not control emerged weeds.

Tank Mixture with Liberty Herbicide or Ignite 280 SL

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

Restrictions: Follow the tank mix product label for adjuvant recommendations. The use of COC or UAN with Medal II EC may result in temporary crop injury. To avoid possible illegal residues when Medal II EC is applied postemergence to soybeans: (1) Do not apply more than 1.33 pt/A postemergence. (2) Make postemergence application 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 II EC.

SUGAR BEETS - MEDAL II EC ALONE

Postemergence Applications

Medal II EC may be applied postemergence to sugar beets after the sugar beets have reached the first true-leaf stage. However, because Medal II 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 II EC is applied, must be controlled with another appropriately labeled herbicide. Apply Medal II EC at 1 pt/A on coarse soils, 1.33 pt/A on medium soils, and 1.67 pt/A on fine soils. More than one postemergence application may be applied, but the total should not exceed 2.6 pt/A. Weeds present at the time of application will not be controlled.

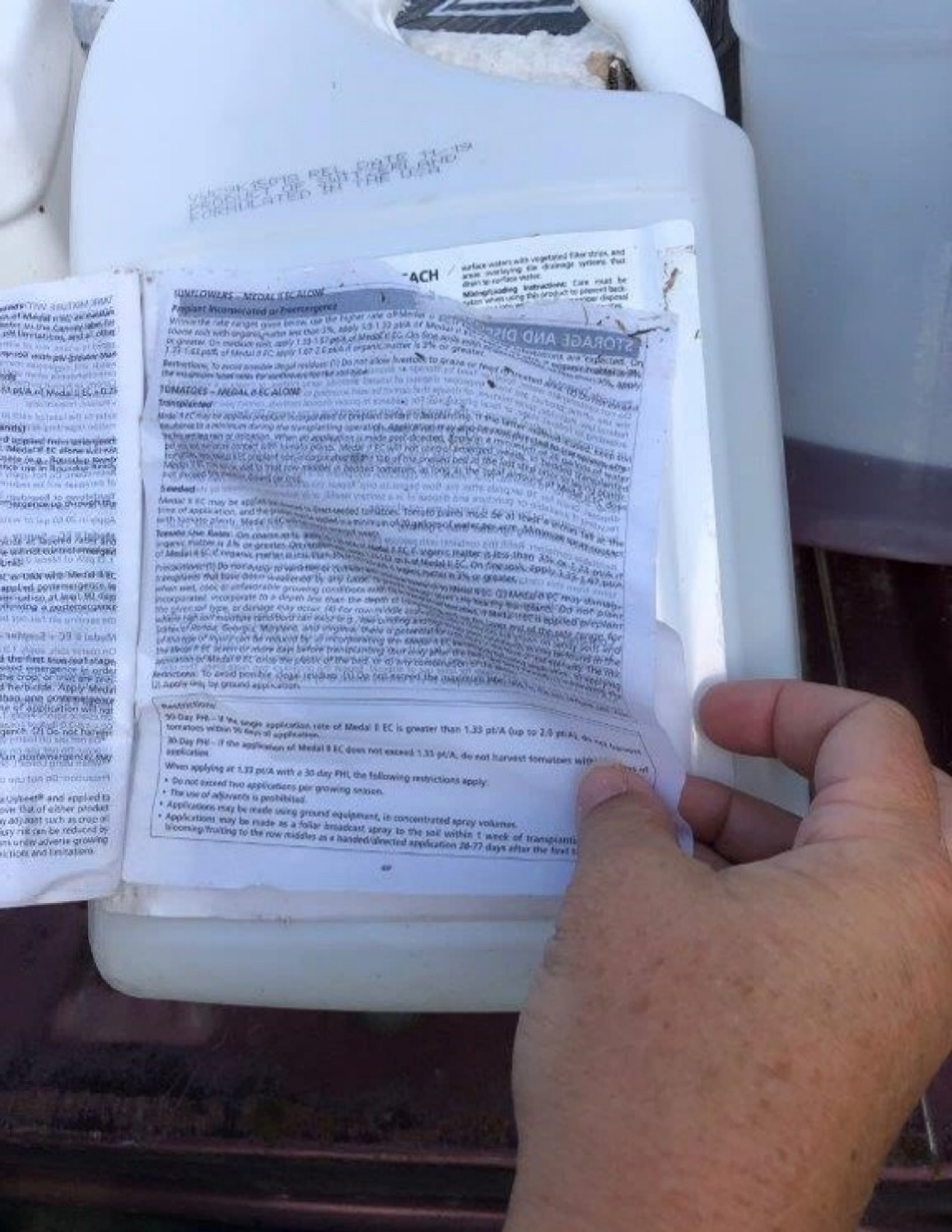
Restrictions: To avoid possible illegal residues: (1) Do not apply more than 2.6 pt/A postemergence. (2) Do not harvest within 60 days after the last application.

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

SUGAR BEETS - MEDAL II EC TANK MIX COMBINATIONS

Medal II EC may be tank mixed with Assure® II, Betamix®, Poast®, Progress®, Select®, Stinger®, or Upbeet® and applied to sugar beets. Tank mixtures of these products with Medal II EC will increase the risk of crop injury over that of either product applied alone. At the Medal II EC formulation has some adjuvant properties. The addition of a spray adjuvant such as crop oil concentrates (COC's) or methylated seed oils (MSO's) can further increase the risk of crop injury. 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.

28


TOMATOES – MEDAL II EC ALONE
Transplanted
Seeded
Restrictions
90-Day PHI
30-Day PHI
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.
49

DISPOSAL

HERBICIDE

KEEP OUT OF
OF CHILDREN
CAUTION

P 8188-L1D 0714

409R408

2.5 gallons
Net Contents

HERBICIDE

KEEP OUT OF REACH OF CHILDREN.

CAUTION

...ARY STATEMENTS

Domestic Animals

...rmful if swallowed ... skin. Avoid contact with ... prolonged or frequently ... may cause allergic reac-

...tions to this restriction, see the **Envi-...tal Hazards** section of the **Precaution-...ments** in attached booklet.

...rift Management Requirements: ...ply this product by air, unless the ...tial labeling on **Aerial Drift Man-...** attached booklet is followed.

...n: Refer to supplemental label-...hed booklet for use directions ...tion. Do not apply this product ... irrigation system, unless the ... labeling on chemigation is

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 ...and reservoirs. This product may not ...ed/loaded or used within 50 ft of all ...including abandoned wells, drainage ...nd sink holes*.

...GE AND ...AL

...ges: This product may be ...atures down to 30 degrees

...at: Do not contaminate ...ed by storage or disposal. ...prohibited. Wastes result-... of this product are toxic. ...of unused pesticide, spray ... is a violation of federal ...r mixture, or rinsate that ...cording to label instruc-...sed or according to fed-...procedures. For guidance ...methods, contact your ...Environmental Control ...dous Waste representa-...Regional Office.

...on-refillable containers ...is container. Offer for ...Triple rinse container ...ly after emptying. ...Empty the remain-...tion equipment or ...0 seconds after the ...container ¼ full ...for 10 seconds. ...on equipment or ...for later use and ...s after the flow ...procedure two ...cycling if avail-...of in a sanitary ...If allowed by ...burning. If

...Abbr®, Abbr® Nine-Oh, Agriure®, ...Capture® Concept®, Coforan®, Dual Magnum®, Dual ...Grandstand®, Medal® II EC, Princep®, Princep® Caliber ...Trademark of Syngenta Group Company

...Acuron®, Acuure®, Canopy®, Lexone®, Lorox®, Upbeat®, and ...E. du Pont de Nemours and Company, Inc.

...Alpha® trademark of Ag-Chem Equipment C...

...Aspect trademark of DiPon Corporation

...Balan®, ...Stinger®, and Tri... ...Magnum®, ...Eradicane®, Eptam®, Eradicane®, Fyrie®, Excedes®, ...Medal®, ...Epic®, ...and Shadowdown® are ...soybean, ...sunflowers, ...ingredient ...trademarks of ...company

...s of Dow AgroSciences

...Sulfyrac®, Ignite®, Liberty®, Liberty® ATZ, LibertyLink®, Progress®, and ...Storm® trademarks of ...Prowl®, Pursuit®, Scepter®, and ...Wingspan® ...Without Air Ride® ...America, Inc.

...trademarks of Monsanto Company

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EPA Reg. No. 100-818
EPA Est. 11773-IA-01-WK
EPA Est. 100-LA-001-WK

(Superscript is first three code on container)

Medal II EC trademark Syngenta Group Corp.©

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Manufactured for: Syngenta Crop Prot... P.O. Box 18300 Greensboro, North Carolina ...

...information), call ...00-334-9481

SCP 8168-LTD 0714
4098408

VUIC 2K/15018 REL DATE 11-15
PRODUCT OF UNITED STATES AND
FORMULATED IN THE USA

VWCRK15018 PRODUCT OF FORMULATED IN THE USA

HERBICIDE

AAtrex®, AAtrex® Nine-O®, Agrisure® GT, B... Caparol®, Concep®, Cotoran®, Dual Magnum®, Dual ... Gramoxone®, Medal® II EC, Princep®, Princep® Caliber ... Trademarks of a Syngenta Group Company

Accent®, Assure®, Canopy®, Lexone®, Lorox®, Upbeet®, and V... du Pont de Nemours and Company, Inc.

When RoGator® trademark of Ag-Chem Equipment Corp.

Agri trademark of Oil-Dri Corporation

Balan®, ... Stinger®, and Treflan® trademarks ...

Balance® ... Buctril® ... Trademarks of Bayer CropScience

soybeans, ... sunflowers, ...

Active Ingredient:

S-metolachlor (CAS No. 87392-12-9)	82.4%
Other Ingredients:	17.6%
Total:	100.0%

Medal II EC contains 7.64 lb of active ingredient per gallon.

Medal II EC is formulated as an emulsifiable concentrate (EC).

See additional precautionary statements and 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 "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

EPA Reg. No. 100-818
EPA Est. 11773-GA-01VWC
EPA Est. 100-LA-001GRL

(Supscript is first three letters of batch code on container)

Medal II EC trademark of a Syngenta Group Company

©2018 Syngenta

Manufactured for:
Syngenta Crop Protection, LLC
P.O. Box 18300
Greensboro, North Carolina 27419-8300

SCP 818B-L1D 0714 4098408

2.5 gallons
Net Contents

KEEP OUT OF REACH OF CHILDREN.

CAUTION

...ONARY STATEMENTS

Domestic Animals

...harmful if swallowed ...kin. Avoid contact with ...olonged or frequently ...ay cause allergic reac...s.

... eye open and rinse slowly and ...water for 15-20 minutes. Remove ...lenses, if present, after the first 5 ...utes, then continue rinsing eye. Call a Poison Control Center or doctor for treatment advice. **If on skin or clothing:** Take off contaminate 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. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a Poison Control Center or doctor. Do not give anything 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: S-metolachlor is known to leach through soil into ground water under certain conditions as a result of label use. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.

Surface Water Advisory: The active ingredient in Medal II 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 drained 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 backsiphoning 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*.

*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

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

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

Container Handling: 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.

Medal II EC
HERBICIDE
CAUTION
2.5 gallons

FS Invention

NET 2.5 GAL

Bulleye HL-K

Complete Directions for Use

Herbicide for Roundup Ready® Crops

Selective broad-spectrum weed control in Roundup Ready® crops

Non-selective, broad-spectrum weed control for many agricultural systems and farmsteads

AVOID CONTACT OF THIS HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, EXCEPT AS DIRECTED FOR USE ON ROUNDUP READY® CROPS, AS SEVERE PLANT INJURY OR DESTRUCTION COULD RESULT.

SIGNAL WORD

Read the entire label before using this product.
Use only according to label directions.
Read the "LIMIT OF WARRANTY AND LIABILITY" statement at the end of this labeling before buying or using. If terms are not acceptable, return at once unopened.

Keep out of reach of children

CAUTION See inside for additional Precautions.

Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing.

FIRST AID	
IF IN EYES	• Hold eye open and rinse slowly and gently with water for 15 to 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 to 20 minutes. • Call a poison control center or doctor for treatment advice.

• Have the product container or labeling with you when calling a poison control center or doctor, or going for treatment.
• You can also call (314) 694-4000, collect, day or night, for emergency medical treatment information.
• This product is identified as **Bulleye™ HL-K, EPA Registration No. 524-539-534.**

ACTIVE INGREDIENT:
*Glyphosate, N-(phosphonomethyl)glycine, in the form of its potassium salt 48.7%
OTHER INGREDIENTS: 51.3%
..... 100.0%

*Contains 660 grams of the active ingredient glyphosate, in the form of its potassium salt, per liter or 5.5 pounds per U.S. gallon, which is equivalent to 540 grams of the acid, glyphosate, per liter or 4.5 pounds per U.S. gallon (39.8% by weight).

This product is protected by U.S. Patent Nos. 6,544,930; 8,129,564 and 9,364,003.

EPA Reg. No. 524-539-534

2007-3

Manufactured for:
GROWMARK, INC. 1701 TOWANDA AVENUE BLOOMINGTON, IL 61701

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101816

SENSITIVE AREAS

Making applications when there is a sustained wind moving away from adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is an effective way to minimize the effect of spray drift.

DRIFT CONTROL ADDITIVES

Drift control additives can reduce drift potential. When a compatible drift control additive is used read and carefully observe cautionary statements and other information on the additive's label. If using an additive that increases viscosity, ensure that the nozzles and other application equipment will function properly with a viscous spray solution. Preferred drift control additives have been certified by the Council of Producers & Distributors of Agrotechnology (CPDA).

UPWIND SWATH DISPLACEMENT

When applications are made with a crosswind the swath will be displaced downwind. An adjustment for swath displacement is made on the downwind edge of the application site by shifting the path of the application equipment upwind.

SPRAY DRIFT CONTROL RESTRICTIONS

Where states have more stringent regulations they must be observed.

AERIAL APPLICATIONS

When applying by air, use spray nozzles that will deliver coarse or larger spray

American Society of Agricultural and Biological

(March 2009).

80% of the rotor

S071221M01002

~~Start~~

7/12/21

Stop

S071221M01002

~~Start~~

7/12/21 CP

~~Stop~~

Start

WASTE PICK UP
1-888-844-8727

Targa
Emulsifiable Concentrate
KEEP OUT OF REACH OF CHILDREN
DANGER-PELIGRO
NET CONTENTS: 5 GALLONS
Gowan
FS Intention
48x40-36101
FOR PESTICIDE USE ONLY 107628 5/21

GROUP 15 HERBICIDE
is product in Nassau and Suffolk Counties in the
dal® II EC
KEEP OUT OF REACH OF CHILDREN.
CAUTION
See additional precautionary statements included on container label.
This product may be stored at temperatures down to 30 degrees below 0°F.
2 x 2.5 gal jugs
PRODUCT ID.
46212
Medal® II EC
HERBIC
Active Ingredient:
Other Ingredients:
Total:
EPA Reg. No. 100
Medal® II EC
Medal® II EC
46212
Medal® II EC

Roundup

transport
1500 kg max
RETURN
Liberty 200 SL
BASF
Liberty 200 SL
BASF

EPA Establishment #
040499-MO-001
Southern FS – Whitewater

EPA Establishment #
040499-MO-001
Southern FS – Whitewater

S071221M01002

~~Start~~

7/12/21

~~Start~~

~~Start~~

Stop