



## OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

April 3, 2024

Meshea J. Brodie  
Sr. Regional Regulatory Manager  
UPL NA Inc.  
630 Freedom Business Center, Ste. 402  
King of Prussia, PA 19406

**Subject:** Approval of Label Amendment; Only Indicated Changes Reviewed – Adding forage in the sorghum section of this label as well as other minor edits.  
Product Name: Motif Herbicide  
EPA Registration Number: 70506-331  
Application Date: 7/24/2023  
Case Number: 487476

Dear Ms. Brodie:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable. However, EPA reviewed only the label changes highlighted, marked, or otherwise indicated on the submitted label. Any other changes to the previously approved label that were not clearly highlighted, marked, or otherwise indicated in your submission were not reviewed and may form the basis of regulatory and/or enforcement action if later discovered by the Agency. Further, submission of a label amendment application with unidentified changes may be considered a knowing submission of false information to the Agency. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

The label submitted with the application has been stamped "Accepted Only Indicated Revisions Reviewed" and is enclosed for your records.

This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 C.F.R. § 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently

approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 C.F.R. § 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the Agency. If the website contains any false or misleading statement, design, or graphic, the product may be misbranded and unlawful to sell or distribute under FIFRA Sections 2(q)(1)(A) and 12(a)(1)(E). 40 C.F.R. § 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on the product label, claims made as part of the product's sale or distribution may not substantially differ from those claims approved through the registration process under FIFRA Section 12(a)(1)(B). Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the product will be referred to the EPA's Office of Enforcement and Compliance Assurance.

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

If you have any questions, please contact Sayed Islam at 202-566-2796 or at [islam.sayed@epa.gov](mailto:islam.sayed@epa.gov).

Sincerely,



Kable Bo Davis  
Senior Regulatory Specialist  
Office of Pesticide Programs  
Registration Division, Immediate Office

Enclosure

**ACCEPTED**

ONLY INDICATED

REVISIONS REVIEWED

04/03/2024

Mesotrione	GROUP	27	HERBICIDE
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Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.

70506-331

No label revisions other than those indicated were reported to the Agency.

# Motif<sup>®</sup> Herbicide

For Control of Annual Broadleaf Weeds in Corn (field, seed, sweet, yellow pop), asparagus, citrus fruit, pome fruit, stone fruit, tree nuts, cranberries, flax, oats, okra, pearl millet, rhubarb, sorghum (grain, forage and sweet), soybeans, sugarcane, turfgrass

## Active Ingredient:

Mesotrione: (CAS No. 104206-82-8)	40.0%
Other Ingredients:	60.0%
Total:	100.0%

Contains 4 lbs. of active ingredient mesotrione per gallon.

**KEEP OUT OF REACH OF CHILDREN**

## CAUTION

**[SEE [BACK PANEL] [INSIDE BOOKLET] [BELOW] FOR FIRST AID AND ADDITIONAL PRECAUTIONARY STATEMENTS]**

FIRST AID	
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to by the poison control center or doctor.</li> <li>• Do not give anything to an unconscious person.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact Rocky Mountain Poison and Drug Safety at 1-866-424-6671 for emergency medical treatment information.	

**In case of emergency: spill, leak, fire, exposure, or accident, call CHEMTREC 1-800-424-9300.**

UPL NA Inc.  
630 Freedom Business Center, Suite 402  
King of Prussia, PA 19406 • 1-800-247-1557

EPA Reg. No. 70506-331  
EPA EST. NO. \_\_\_\_\_  
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## PRECAUTIONARY STATEMENTS

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### Hazards to Humans and Domestic Animals

#### CAUTION

Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing.

### Personal Protective Equipment (PPE)

#### Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Waterproof gloves

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

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

### User Safety Recommendations

#### Users should:

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

### Environmental Hazards

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

#### Ground Water Advisory

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

#### Surface Water Advisory

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

### Physical and Chemical Hazards

Do not mix or allow to come into contact with oxidizing agents. Hazardous chemical reactions may occur.

## DIRECTIONS FOR USE

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

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 12 hours.**

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
- Shoes plus socks
- Chemical-resistant gloves

### PRODUCT INFORMATION

Motif is a systemic pre-emergence and post-emergence herbicide for the selective contact and residual control of broadleaf weeds in field corn, seed corn, yellow popcorn, sweet corn, and other listed crops. When used pre-emergence, weeds take up the product through the soil during emergence. Dry conditions following application may reduce the pre-emergence activity of Motif. If an activating rain (0.25 inches) is not received within 7-10 days after a pre-emergence application, where appropriate, rotary hoeing is suggested to activate the herbicide. When used post-emergence, susceptible weeds take up the herbicide through the treated foliage and cease growth soon after application. Complete death of the weeds may take up to 2 weeks. The product is absorbed through the soil and/or by the foliage of emerged weeds.

Motif is not effective for the control of most grass weeds. Pre-emergence grass herbicides or post-emergence grass herbicides can be tank mixed with Motif to provide broad spectrum weed control in corn (see appropriate section of label for this information). Motif can be applied post-emergence following a pre-emergence grass herbicide application. Motif can also be used in combination with a burndown herbicide, prior to planting, to provide added burndown and residual weed control in field corn, seed corn, yellow popcorn, and sweet corn.

### Resistance Management

Motif is a Group 27 herbicide.

Naturally occurring biotypes of certain broadleaf weed species with resistance to triazines, ALS, PPO, glycine (glyphosate) and HPPD herbicides are known to exist. If biotypes of weeds resistant to triazines, ALS, PPO and glycine inhibitors are present in the field, this herbicide is capable of controlling or partially controlling them if they are listed in Tables 1 and 2. Should resistant individuals dominate the weed population, appropriate resistance management strategies should be followed. Any weed population may contain or develop plants naturally resistant to Motif Herbicide and other Group 27 herbicides. Weed species with acquired resistance to these Groups may eventually dominate the weed population if a Group 27 herbicide is used repeatedly in the same field. Appropriate resistance-management strategies should be followed.

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

- Rotate the use of herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in a field. Whenever possible incorporate multiple weed control practices such as mechanical cultivation, biological management practices, and crop rotation.

- Use tank mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available, use the less resistance-prone partner at a rate that will control the target weed(s) equally as well as the more resistance-prone partner. Consult your local extension service or certified crop advisor if you are unsure as to which active ingredient is currently less prone to resistance.
- Adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information related to herbicide use and crop rotation, and that considers tillage (or other mechanical control methods), cultural (e.g. higher crop seeding rates; precision fertilizer application method and timing to favor the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Scout fields before application to identify the weed species present and their growth stage to determine if the intended application will be effective. Scout after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method such as hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- If a weed pest population continues to progress after treatment with this product, discontinue use of this product and switch to another management strategy or herbicide with a different mode of action (MOA), if available. Treat weed escapes with an herbicide with a different MOA or use non-chemical methods to remove escapes. To the extent possible do not allow weed escapes to produce seeds, roots, or tubers.

Contact your local sales representative, crop advisor, or extension agent to find out if suspected resistant weeds to this MOA have been found in your region. If resistant biotypes of target weeds have been reported, use the application rates of this product specified for your local conditions. Tank mix products so that there are multiple effective mechanisms of action for each target weed. Contact UPL NA at 1-800-438-6071.

## INTEGRATED PEST (WEED) MANAGEMENT

Integrate Motif into an overall weed and pest management strategy whenever the use of a herbicide is required. Follow practices known to reduce weed development (tillage, crop competition) and herbicide use (weed scouting, proper application timing, banding) wherever possible. Consult local agricultural and weed authorities for additional IPM strategies established for your area.

## USE RESTRICTIONS

**Do not** apply this product through any type of irrigation system unless specified otherwise under the specific crop section on the label.

**Do not** apply this product with suspension fertilizers as the carrier.

**Do not** apply Motif post-emergence in a tank mix with emulsifiable concentrate (EC) grass herbicides, unless specifically addressed under one of the tank mix sections of this label, or injury may occur.

**Do not** apply Motif by air unless specified otherwise under the specific crop section on the label.

## USE PRECAUTIONS

When weeds are stressed and not actively growing due to environmental conditions (such as drought, heat, lack of fertility, flooding, or prolonged cool temperatures), control can be reduced or delayed. Weed escapes or regrowth may occur when application is made under prolonged stress conditions. For best weed control will apply Motif following label directions when weeds are actively growing.

Motif may be applied with pyrethroid type insecticides such as bifenthrin (e.g., Bifenture®), lambda cyhalothrin (e.g. UPI Lambda-Cy), and permethrin (e.g. Perm-Up®).

## SPRAY DRIFT MANAGEMENT

### MANDATORY SPRAY DRIFT MANAGEMENT

#### Aerial Applications (corn and sugarcane only)

- Do not release spray at a height greater than 10 feet above the ground or vegetative canopy, unless a greater application height is necessary for pilot safety.
- Applicators must select nozzle and pressure that deliver medium or coarser droplets (ASABE S572). If the windspeed is 10 miles per hour or less, applicators must use ½ swath displacement upwind at the downwind edge of the field. When the windspeed is between 11-15 miles per hour, applicators must use ¾ swath displacement upwind at the downwind edge of the field.
- Do not apply when wind speeds exceed 15 mph at the application site. If the windspeed is greater than 10 mph, the boom length must be 65% or less of the wingspan for fixed wing aircraft and 75% or less of the rotor diameter for helicopters. Otherwise, the boom length must be 75% or less of the wingspan for fixed-wing aircraft and 90% or less of the rotor diameter for helicopters.
- Do not apply during temperature inversions.

#### Ground Boom Applications

- Do not release spray at a height greater than 3 feet above the ground or crop canopy.
- Applicators are required to select the nozzles and pressure that deliver medium or coarser droplets (ASABE S572).
- Do not apply when wind speeds exceed 15 mph at the application site.
- Do not apply during temperature inversions.

#### Boomless Ground Applications:

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

## SPRAY DRIFT ADVISORIES

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

#### Boomless Ground Applications:

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

#### Handheld Technology Applications

- Take precautions to minimize spray drift.

## IMPORTANCE OF DROPLET SIZE

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

#### Controlling Droplet Size – Ground Boom

- Volume – Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.

- Pressure – Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle – Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

### **BOOM HEIGHT – Ground Boom**

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

### **SHIELDED SPRAYERS**

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

### **TEMPERATURE AND HUMIDITY**

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

### **TEMPERATURE INVERSIONS**

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

### **WIND**

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.

Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

## **APPLICATION INFORMATION**

### **PRE-EMERGENCE GROUND APPLICATION**

Apply Motif pre-emergence with a spray volume of 10-60 gals./A using water or liquid fertilizer (excluding suspension fertilizers) as the carrier.

Spray nozzles must be uniformly spaced, the same size and type, and must provide accurate and uniform application. Use spray nozzles that provide medium to coarse droplet size to provide good coverage and avoid drift. Use a pump that can maintain a pressure of at least 35-40 psi at the nozzles and provide proper agitation within the tank to keep the product dispersed. Lower pressures may be used with extended range or drift reduction nozzles.

**Always ensure that agitation is maintained until spraying is completed, even if stopped for brief periods of time. If the agitation is stopped for more than 5 minutes, re-suspend the spray solution by running on full agitation prior to spraying.**

### **POST-EMERGENCE GROUND APPLICATION**

Apply in a spray volume of 10-30 gals./A using water as a carrier.

Spray nozzles must be uniformly spaced, the same size and type, and must provide accurate and uniform application. Use spray nozzles that provide medium to coarse droplet size to provide good coverage and avoid drift. Good weed coverage is essential for optimum weed control. Boom height for broadcast over-the-top applications must be based on the height of the crop, and should be within 15 inches of the crop canopy.

Use a pump that can maintain a pressure of at least 35-40 psi at the nozzles and provide proper agitation within the tank to keep the product dispersed. Lower pressures may be used with extended range or drift reduction nozzles. When weed foliage is dense, use a minimum of 20 gals.



Use flat fan nozzles of 80° or 110° for best post-emergence coverage. Do not use floodjet nozzles or controlled droplet application equipment for post-emergence applications.

Nozzles may be angled forward 45° to enhance penetration of the crop and provide better coverage. Ensure that all in-line strainer and nozzle screens in the sprayer are 50-mesh or coarser.

**Always ensure that agitation is maintained until spraying is completed, even if stopped for brief periods of time. If the agitation is stopped for more than 5 minutes, re-suspend the spray solution by running on full agitation prior to spraying.**

## Aerial Application

### RESTRICTIONS

- **Motif may be applied by air ONLY to corn and sugarcane.**

Applications must be made in a minimum of 2 gallons of water per acre.

For corn, apply Motif by air for pre-emergence or post-emergence weed control only in the following states: Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Nebraska, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin and Wyoming.

For sugarcane, apply Motif by air for pre-emergence or post-emergence weed control only in the following states: Florida, Louisiana and Texas.

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## SPRAY ADDITIVES

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### POST-EMERGENCE ADJUVANTS

When an adjuvant is to be used with this product, the use of an adjuvant that meets the standards of the Chemical Producers and Distributors Association (CPDA) adjuvant certification program is recommended.

The following adjuvant recommendations are intended primarily for Motif use in corn. Refer to the use directions section of each crop section for specific adjuvant recommendations.

### POST-EMERGENCE APPLICATIONS TO FIELD CORN AND SEED CORN

For post-emergence applications made after the crop has emerged, add crop oil concentrate (COC) to the spray solution at the rate of 1.0 gal./100 gals. of water (1.0% v/v). The use of a nonionic surfactant (NIS) at 1 qt./100 gallons of water (0.25% v/v) instead of COC is allowed, but the weed control achieved with COC is consistently better than NIS. **Severe crop injury may occur if methylated seed oil (MSO) adjuvants or MSO blend adjuvants are used with Motif for post-emergence applications. Do not use MSO adjuvants for post-emergence use unless directed for a specific tank mix under the Motif TANK MIXTURES FOR CORN section of this label, or unless permitted by a supplemental Motif label.** In addition to COC, always add spray grade UAN (e.g., 28-0-0) to the spray solution at a rate of 2.5% (v/v) or AMS at 8.5 lb./100 gals. of spray solution, except if precluded elsewhere on this label or by a supplemental Motif label.

### POST-EMERGENCE APPLICATIONS TO SWEET CORN AND YELLOW POPCORN

**To avoid potentially or severe crop injury, do not add UAN or AMS when making post-emergence applications of Motif to yellow popcorn or sweet corn.**

For post-emergence applications to yellow popcorn and sweet corn, use a nonionic surfactant (NIS) instead of a crop oil concentrate (COC), to minimize the risk of crop injury. A COC may be used, and will increase the level of weed control achieved, especially under dry growing conditions, but the risk of crop injury is increased significantly under lush growing conditions. For optimum control, add atrazine wherever rotational or local atrazine restrictions allow.

## PRE-EMERGENCE ADJUVANTS

For Motif preplant or pre-emergence applications, and where weeds are present, the use of any adjuvant for agricultural use is permitted. In these situations, MSO type adjuvants are typically better than COC type adjuvants, which are typically better than NIS type adjuvants for enhancing weed control. UAN or AMS can be added and typically provides better weed control than not adding one of these. If Motif is being tank mixed with another registered herbicide in this situation, refer to the tank mix partner label for adjuvant precautions and restrictions.

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## SPRAY EQUIPMENT

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### Cleaning Equipment After Motif Application

Special attention must be given to cleaning equipment before spraying a crop other than corn. Mix only as much spray solution as needed.

1. Flush tank, hoses, boom, and nozzles with clean water.
2. Prepare a cleaning solution of 1 gal. of household ammonia per 25 gals. of water. Many commercial spray tank cleaners may be used.
3. Use a pressure washer to clean the inside of the spray tank with this solution. Take care to wash all parts of the tank, including the inside top surface. If a pressure washer is not available, completely fill the sprayer with the cleaning solution to ensure contact of the cleaning solution with all internal surfaces of the tank and plumbing. Start agitation in the sprayer and thoroughly recirculate the cleaning solution for at least 15 minutes. All visible deposits must be removed from the spraying system.
4. Flush hoses, spray lines, and nozzles for at least 1 minute with the cleaning solution.
5. Dispose of rinsate from steps 1-3 in an appropriate manner.
6. Repeat steps 2-5.
7. Remove nozzles, screens, and strainers and clean separately in the ammonia solution after completing the above procedures.
8. Rinse the complete spraying system with clean water.

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## MIXING PROCEDURES

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Refer to the **Crop Use Directions** sections of this label for tank mixes. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions, limitations, and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Always refer to labels of other pesticide products for mixing directions and precautions which may differ from those outlined here. Mix only with products which are labeled for the same crops and whose labels do not prohibit mixing with mesotrione-containing products. Always follow the most restrictive label limitations and precautions. Do not apply more than labeled rates. Do not tank mix Motif with any other insecticide, fungicide, fertilizer solution, or adjuvant not specified on the label without testing compatibility, as poor mixing may result. Test the compatibility of any tank mix combination on a small scale (such as a jar test) before actual tank mixing.

Only use sprayers in good running condition with good agitation. Ensure that the sprayer has been cleaned according to instructions on the label of the product used most recently. For post-emergence applications, use only clean water for the spray solution. Ensure that all in-line strainer and nozzle screens in the sprayer are 50-mesh or coarser. Do not use screens finer than 50-mesh.

Follow the mixing instructions for adding Motif to the spray tank:

1. Liquid fertilizer (excluding suspension fertilizers) may be used as the carrier for pre-emergence applications.
2. Begin to fill sprayer tank or premix tank with clean water and engage agitator. Agitation must be continued throughout the entire mixing and spraying procedure.
3. When the sprayer or premix tank is half full of water, add AMS and agitate until completely dispersed.

4. Next add Motif slowly and agitate until completely dissolved. Wait at least 1 minute after the last of the Motif has been added to the tank to allow for complete dispersion. A longer agitation period may be required to disperse Motif when using cold water from sources such as deep drilled wells.
5. If tank mixing, add the tank mix product next.
6. Finally, add adjuvant and UAN, if needed, and then continue to fill tank to desired level with water.

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## WEEDS CONTROLLED

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Motif applied as directed in this label will control or partially control the weeds listed in Tables 1 and 2.

Partial control can either mean erratic control (good to poor) or consistent control at a level below that generally considered acceptable for commercial weed control.

For best post-emergence results, apply Motif to actively growing weeds. Dry weather following pre-emergence application of Motif may reduce residual weed control effectiveness. If irrigation is available, apply 1/2 to 1 inch of water after pre-emergence application. If irrigation is not available, make a uniform shallow cultivation as soon as weeds emerge.

Motif applied alone or in mixture with atrazine will not provide consistent or effective control of weeds identified as resistant to post-emergence HPPD inhibiting herbicides.

Refer to the crop sections on this label for specific rates and use directions.

**Table 1. Weeds Controlled With Post-emergence Applications of Motif**

Weed Common Name	Weed Scientific Name	Motif 3 fl oz/A	Motif 2.5-3.0 fl oz/A + Atrazine <sup>1</sup>
		Apply to Weeds <5 Inches Tall <sup>2</sup>	
Amaranth, palmer	<i>Amaranthus palmeri</i>	PC <sup>3</sup>	C <sup>3</sup>
Amaranth, powell	<i>Amaranthus powellii</i>	C	C
Amaranth, spiny	<i>Amaranthus spinosus</i>	C	C
Atriplex	<i>Chenopodium orach</i>	C	C
Broadleaf signalgrass	<i>Urochloa platyphylla</i>	C <sup>3</sup>	C <sup>3</sup>
Buckwheat, wild	<i>Polygonum convolvulus</i>	PC	PC
Buffalobur	<i>Solanum rostratum</i>	C	C
Burcucumber	<i>Sicyos angulatus</i>	PC	C <sup>3</sup>
Carpetweed	<i>Mollugo verticillata</i>	C	C
Carrot, wild	<i>Daucus carota</i>	PC	C
Chickweed, common	<i>Stellaria media</i>	C	C
Cocklebur, common	<i>Xanthium strumarium</i>	C	C
Crabgrass, large	<i>Digitaria sanguinalis</i>	C <sup>3</sup>	C <sup>3</sup>
Dandelion	<i>Taraxacum officinale</i>	NC	PC
Dock, curly	<i>Rumex crispus</i>	PC	PC
Galinsoga	<i>Galinsoga parviflora</i>	C	C
Hemp	<i>Cannabis sativa</i>	C	C
Horsenettle	<i>Solanum carolinense</i>	PC	C
Jimsonweed	<i>Datura stramonium</i>	C	C

Weed Common Name	Weed Scientific Name	Motif 3 fl oz/A	Motif 2.5-3.0 fl oz/A + Atrazine <sup>1</sup>
		Apply to Weeds <5 Inches Tall <sup>2</sup>	
Horseweed (marestail)	<i>Conyza canadensis</i>	PC	C
Knotweed, prostrate	<i>Polygonum aviculare</i>	PC	PC
Kochia	<i>Kochia scoparia</i>	PC <sup>3</sup>	C <sup>3</sup>
Lambsquarters, common	<i>Chenopodium album</i>	C	C
Mallow, Venice	<i>Hibiscus trionum</i>	NC	C
Morningglory, entireleaf	<i>Ipomoea hederacea</i>	PC	C
Morningglory, ivyleaf	<i>Ipomoea hederacea</i>	PC	C
Morningglory, pitted	<i>Ipomoea lacunosa</i>	PC	C
Mustard, wild	<i>Brassica kaber</i>	C	C
Nightshade, black	<i>Solanum nigrum</i>	C	C
Nightshade, Eastern black	<i>Solanum ptycanthum</i>	C	C
Nightshade, hairy	<i>Solanum sarrachoides</i>	C	C
Nutsedge, yellow	<i>Cyperus esculentus</i>	PC	PC
Pigweed, redroot	<i>Amaranthus retroflexus</i>	C	C
Pigweed, smooth	<i>Amaranthus hybridus</i>	C	C
Pigweed, tumble	<i>Amaranthus albus</i>	C	C
Pokeweed, common	<i>Phytolacca americana</i>	PC	PC
Potatoes, volunteer	<i>Solanum</i> spp.	C	C
Pusley, Florida	<i>Richardia scabra</i>	C <sup>3</sup>	C <sup>3</sup>
Ragweed, common	<i>Ambrosia artemisiifolia</i>	PC	C
Ragweed, giant	<i>Ambrosia trifida</i>	C <sup>3</sup>	C
Sesbania, hemp	<i>Sesbania exaltata</i>	C	C
Sida, prickly (teaweed)	<i>Sida spinosa</i>	NC	C <sup>3</sup>
Smartweed, ladysthumb	<i>Polygonum persicaria</i>	C <sup>3</sup>	C
Smartweed, pale	<i>Polygonum lapathifolium</i>	C <sup>3</sup>	C
Smartweed, Pennsylvania	<i>Polygonum pennsylvanicum</i>	C <sup>3</sup>	C
Sunflower, common	<i>Helianthus annuus</i>	C	C
Thistle, Canada	<i>Cirsium arvense</i>	NC	PC
Velvetleaf	<i>Abutilon theophrasti</i>	C	C
Waterhemp, common	<i>Amaranthus rudis</i>	C <sup>3</sup>	C
Waterhemp, tall	<i>Amaranthus tuberculatus</i>	C <sup>3</sup>	C

<sup>1</sup> Motif tank mixture with atrazine is approved only for use on corn and sugarcane.

<sup>2</sup> In certain situations weeds can be controlled at larger than listed sizes, however to protect crop yield, manage weed resistance and provide consistent control, treat weeds before they exceed 5 inches in height.

<sup>3</sup> Apply before weed exceeds 3 inches in height.

C = Control    PC = Partial Control    NC = Not Controlled

**Table 2. Weeds Controlled With Pre-emergence Applications of Motif**

Common Name	Scientific Name	Motif Applied Alone	Motif + Atrazine <sup>1</sup>
Amaranth, palmer	<i>Amaranthus palmeri</i>	C	C
Amaranth, powell	<i>Amaranthus powellii</i>	C	C
Amaranth, spiny	<i>Amaranthus spinosus</i>	C	C
Broadleaf signalgrass	<i>Urochloa platyphylla</i>	PC	PC
Buffalobur	<i>Solanum rostratum</i>	C	C
Burclover, California	<i>Medicago polymorpha</i>	C	-
Carpetweed	<i>Mollugo verticillata</i>	C	C
Carrot, wild	<i>Daucus carota</i>	C	-
Chickweed, common	<i>Stellaria media</i>	C	C
Chickweed, mouse-ear	<i>Cerastium vulgatum</i>	C	-
Cocklebur, common	<i>Xanthium strumarium</i>	PC	C
Crabgrass, large	<i>Digitaria sanguinalis</i>	PC	PC
Dandelion, common (seedling)	<i>Taraxacum officinale</i>	C	-
Deadnettle, purple	<i>Lamium purpureum</i>	C	-
Dock, curly	<i>Rumex crispus</i>	C	-
Eveningprimrose, cutleaf	<i>Oenothera laciniata</i>	C	-
Fiddleneck, coast	<i>Amsinckia intermedia</i>	C	-
Filaree, redstem	<i>Erodium cicutarium</i>	C	-
Filaree, whitestem	<i>Erodium moschatum</i>	C	-
Fleabane, hairy	<i>Conyza bonariensis</i>	C	
Galinsoga	<i>Galinsoga parviflora</i>	C	C
Geranium, Carolina	<i>Geranium carolinianum</i>	C	-
Groundcherry, smooth	<i>Physalis subglabrata</i>	C	-
Groundsel, common	<i>Senecio vulgaris</i>	C	-
Henbit	<i>Lamium amplexicaule</i>	C	-
Horsenettle	<i>Solanum carolinense</i>	P	-
Horseweed/marestail	<i>Conyza canadensis</i>	C	-
Jimsonweed	<i>Datura stramonium</i>	C	C
Kochia	<i>Kochia scoparia</i>	P	C
Lambsquarters, common	<i>Chenopodium album</i>	C	C
Lettuce, prickly	<i>Lactuca serriola</i>	C	-
Mallow, common	<i>Malva neglecta</i>	C	-
Mayweed, chamomile	<i>Anthemis cotula</i>	C	-
Morningglory, entireleaf	<i>Ipomoea hederacea</i>	P	C
Morningglory, ivyleaf	<i>Ipomoea hederacea</i>	P	C

Common Name	Scientific Name	Motif Applied Alone	Motif + Atrazine <sup>1</sup>
Morningglory, pitted	<i>Ipomoea lacunosa</i>	P	C
Nettle, burning	<i>Urtica urens</i>	C	-
Nightshade, eastern black	<i>Solanum ptycanthum</i>	C	C
Nightshade, hairy	<i>Solanum sarrachoides</i>	C	C
Pansy	<i>Viola tricolor</i>	C	-
Pigweed, redroot	<i>Amaranthus retroflexus</i>	C	C
Pigweed, smooth	<i>Amaranthus hybridus</i>	C	C
Pigweed, tumble	<i>Amaranthus albus</i>	C	C
Pineappleweed	<i>Matricaria matricariodes</i>	C	-
Puncturevine, common	<i>Tribulus terrestris</i>	C	-
Purslane, common	<i>Portulaca oleracea</i>	C	-
Pusley, common	<i>Richardia scabra</i>	P	-
Ragweed, common	<i>Ambrosia artemisiifolia</i>	C	C
Ragweed, giant	<i>Ambrosia trifida</i>	P	C
Redmaids	<i>Calandria caulescens</i>	C	-
Rocket, London	<i>Sisymbrium irio</i>	C	-
Shepherdspurse	<i>Capsella bursa-pastoris</i>	C	-
Smartweed, ladysthumb	<i>Polygonum persicaria</i>	C	C
Smartweed, pale	<i>Polygonum lapathifolium</i>	C	C
Smartweed, Pennsylvania	<i>Polygonum pensylvanicum</i>	C	C
Sowthistle, annual	<i>Sonchus oleraceus</i>	C	-
Spanishneedles	<i>Bidens bipinnata</i>	C	-
Sunflower, common	<i>Helianthus annuus</i>	P	C
Swinecress	<i>Coronopus didymus</i>	C	-
Tasselflower, red	<i>Emilia sonchifolia</i>	C	-
Velvetleaf	<i>Abutilon theophrasti</i>	C	C
Waterhemp, common	<i>Amaranthus rudis</i>	C	C
Vetch, common	<i>Vicia sativa</i>	C	-
Vetch, purple	<i>Vicia benghalensis</i>	P	-
Waterhemp, tall	<i>Amaranthus tuberculatus</i>	C	C
Willowherb, panicle	<i>Epilobium brachycarpum</i>	C	-

<sup>1</sup> Motif tank mixture with atrazine is approved only for use on corn, grain sorghum, forage sorghum and sugarcane. Refer to the crop sections on this label for specific use directions.

C = Control P = Partial Control

## ROTATIONAL CROPS

When Motif is applied as directed on this label, follow the crop rotation intervals in Table 3. If Motif is tank mixed with other products, the most restrictive product's crop rotation intervals must be followed.

**Table 3. Time Interval Between Motif Application and Replanting or Planting of Rotational Crop**

Crop	Replant/Rotational Interval
Asparagus Corn (all types) Cranberry Flax Kentucky bluegrass grown for seed Millet, pearl Oats Rhubarb Ryegrass (perennial and annual) grown for seed Sorghum (grain, forage and sweet) Sugarcane Tall fescue grown for seed	No restriction
Small grain cereals including wheat, barley and rye	4 Months
Alfalfa Blueberry Canola Cotton Currant Lingonberry Okra Peanuts Peas* Potato Rice Snap beans* Soybeans Sunflowers Tobacco	10 Months
Cucurbits Dry beans Red clover Sugar beets All other rotational crops not listed in this table	18 Months

\*Plant Peas and Snap Beans only if the criteria below have been met. If all criteria are not met, a minimum 18 month interval must be observed following Motif application.

- At least 20" of rainfall plus irrigation has been received between application and planting of the rotational crop.
- Soil pH is 6.0 or greater.
- Application of Motif at 3 fl oz/A or less was applied no later than June 30<sup>th</sup> the year preceding rotational crop planting.
- No other HPPD herbicides (including, but not limited to, products containing isoxaflutole, mesotrione, tembotrione, or topramezone)) were applied the year prior to planting peas and snap beans.

**Restriction**

- Do not plant peas or snap beans on sand, sandy loam or loamy sand soils in Minnesota or Wisconsin.

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## CROP USE DIRECTIONS

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### CORN (Field, Seed, Sweet, and Yellow Pop)

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Apply Motif by ground for pre-emergence or post-emergence weed control.

Aerial application for pre-emergence or post-emergence weed control is permitted only in the following states: Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin and Wyoming.

Refer to seed company information for use on field corn inbred lines. Special adjuvant restrictions must be followed for post-emergence applications of Motif in yellow popcorn or sweet corn (see the **SPRAY ADDITIVES** section of this label).

Post-emergence applications (after crop emergence) of Motif may cause crop bleaching in some yellow popcorn and sweet corn hybrids. Crop bleaching is typically transitory and has no effect on final yield or quality. However, herbicide sensitivity in yellow popcorn and sweet corn varies widely, and all yellow popcorn and sweet corn hybrids have not been tested. Contact your popcorn or sweet corn company, Fieldman, or University Specialist about hybrids before making a post-emergence application of Motif to yellow popcorn or sweet corn. Do not include nitrogen based adjuvants (UAN or AMS) when making post-emergence applications of Motif to yellow popcorn or sweet corn.

Temporary crop response (transient bleaching) from post-emergence applications to field corn may occur under extreme weather conditions or when the crop is suffering from stress. Field corn quickly outgrows these effects and develops normally.

### Precautions

- Severe corn injury resulting in yield loss may occur if Motif is applied post-emergence to corn that was treated with terbufos (e.g. Counter®) or chlorpyrifos (e.g. Lorsban®).
- Severe corn injury resulting in yield loss may occur if Motif is applied foliar post-emergence to corn in a tank mix with any organophosphate or carbamate insecticide.
- Severe corn injury resulting in yield loss may occur if any organophosphate or carbamate insecticide is applied foliar post-emergence within 7 days before or 7 days after Motif application.

### Restrictions

- Do not apply Motif to white popcorn or ornamental (Indian) corn.
- Do not cultivate corn within 7 days before or after a Motif application as weed control from the Motif application may be reduced.
- Do not apply more than a total of 7.7 fl oz/A (0.24 lb. a.i.) of Motif per year.
- Do not make more than 2 applications of Motif per year.
- Do not apply more than 3.0 fl oz/A (0.094 lb. a.i.) in a single post-emergence application.
- Do not make the second application of Motif within 14 days of the first application.
- Do not feed or harvest forage, grain, or stover within 45 days after application.

Apply Motif for the control of broadleaf and grass weeds listed in Tables 1 and 2. Corn may be treated up to 30 inches tall or up to the 8-leaf stage of corn growth.



## Motif USED ALONE

### Post-Emergence

Apply Motif at 3.0 fl oz/A per application. Always add an appropriate adjuvant to the spray tank (see the **SPRAY ADDITIVES** section of this label).

For best results, apply Motif to actively growing weeds. For a list of weeds controlled see Table 1. Susceptible weeds which emerge soon after application of Motif may be controlled after they absorb the herbicide from the soil. Motif will not control most grass weeds.

Two post-emergence applications of Motif may be made with the following restrictions.

- Only one post-emergence application may be made if Motif has been applied pre-emergence. Do not make more than two applications per year. Do not apply more than a total of 7.7 fl oz/A (0.24 lb. a.i.) of Motif per year.
- Do not make the second application within 14 days of the first application.
- For best weed and residual control, do not apply Motif at rates less than 3.0 fl oz/A (0.094 lb. a.i.) post-emergence.
- Do not apply more than a total of 6.0 fl oz/A (0.19 lb. a.i.) for the two post-emergence applications.
- If Motif is applied post-emergence to ground that received a pre-emergence application of a mesotrione-containing herbicide, atrazine must be tank mixed with Motif.
- If atrazine is mixed with Motif, do not apply to corn that is more than 12 inches high.
- Corn may be treated up to 30 inches tall or up to the 8-leaf stage of corn growth. Do not harvest forage, grain, or stover within 45 days after application.

### Motif Pre-Emergence

For broadleaf weed control, apply Motif alone at 6.0-7.7 fl oz/A (0.188-0.24 lb. a.i.) by ground sprayers in a spray volume of 10-30 gals. of water (up to 80 gals. if applied with liquid fertilizers) per acre. See Table 2 for weeds controlled. Motif may be tank mixed with pre-emergence grass herbicides for grass control. Refer to the tank mix section for a list of partners.

## Motif APPLIED IN TANK MIXTURES FOR CORN

Motif may be tank mixed with other registered herbicides for improved spectrum of weed control in burndown, pre-emergence or post-emergence applications. These tank mixtures can also serve as a method to include a different mode of action herbicide to help control or manage the development of resistant weed biotypes.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions, limitations, and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

### Burndown Tank Mixtures in Corn

Apply Motif in a tank mixture with other registered herbicides for burndown plus residual weed control.

For improved broadleaf weed control with limited residual control prior to planting corn and before corn emergence, apply Motif at 3.0 fl oz/A in tank mixes with paraquat (e.g. Gramoxone® brands), glyphosate (e.g. Roundup® brands, Touchdown® brands), dicamba brands (e.g. Banvel®) and/or 2,4-D. For greater residual control, use 6.0-7.7 fl oz/A of Motif (see Table 2) with the above products. Use the adjuvant system specified by the burndown herbicide. Refer to individual product labels for precautionary statements, restrictions, rates, approved uses, and a list of weeds controlled; always follow the most restrictive labeling for products used in mixtures.

## Pre-emergence Tank Mixtures in Corn

Apply Motif at a rate of 5.3-7.7 fl oz/A in tank mixture with other registered herbicides (Table 4) for pre-emergence residual weed control. Refer to Table 2 for a list of weeds controlled by Motif and Motif plus atrazine applied pre-emergence.

**Table 4. Motif Tank Mixtures for Pre-emergence Application in Corn**

Refer to individual product labels for precautionary statements, restrictions, rates, approved uses, and a list of weeds controlled.

ACTIVE INGREDIENT	REPRESENTATIVE BRANDS (list is not all-inclusive)
Atrazine	Aatrex®
Acetochlor	Degree®, Harness®, Surpass®, TopNotch®,
Dimethenamid	Outlook®
Pendimethalin	Satellite®, Prowl®
s-metolachlor	Dual II Magnum®, Cinch®, Cinch® ATZ, Cinch® ATZ Lite
Acetochlor + atrazine	Degree Xtra®, Fulltime® Harness Xtra® 5.6L, Keystone®, Keystone® LA
Atrazine + s-metolachlor	Bicep Lite II Magnum®, Bicep II Magnum®
Atrazine + glyphosate + metolachlor	Expert®
Dimethenamid + atrazine	Guardsman Max®

## Post-emergence Tank Mixtures in Corn

The tank mixtures with Motif identified in Table 5 may be applied post-emergence to corn. Unless specified otherwise on this label or a supplemental label, do not apply Motif at less than 3.0 fl oz/A. Application of Motif at rates less than 3.0 fl oz (0.094 lb. ai/A) post-emergence may result in a loss of residual control.

Always add an appropriate adjuvant to the spray tank (see the **SPRAY ADDITIVES** section of this label). Refer to individual product labels for precautionary statements, restrictions, rates, approved uses, and a list of weeds controlled. Not all of the tank mix pesticides listed are registered for field corn, yellow popcorn, or sweet corn.

**Table 5. Motif Tank Mixtures for Post-emergence Application in Corn**

Active Ingredient(s)	Representative Brands <sup>1</sup>	Directions
Atrazine	AAtrex® 4L AAtrex® Nine-O®	<ul style="list-style-type: none"> <li>Refer to Table 1 on this label for application rates and weeds controlled.</li> </ul>
Nicosulfuron	Accent®, Accent® Q	<ul style="list-style-type: none"> <li>Use this mixture for additional grass control. Refer to product label for list of weeds controlled.</li> </ul>
Bentazon	Broadloom® Basagran®	<ul style="list-style-type: none"> <li>Use this mixture for additional broadleaf weed control. Refer to product label for list of weeds controlled.</li> </ul>
Rimsulfuron + thifensulfuron methyl	Basis® Basis Gold®	<ul style="list-style-type: none"> <li>Use this mixture for additional weed control. Refer to product label for list of weeds controlled.</li> </ul>

Active Ingredient(s)	Representative Brands <sup>1</sup>	Directions
Atrazine + s-metolachlor	Bicep II Magnum Bicep Lite II Magnum	<ul style="list-style-type: none"> <li>• When using these tank mixtures, omit the nitrogen based adjuvant (UAN or AMS) from the mixture or apply as a post-directed spray to minimize contact with crop foliage.</li> <li>• To further reduce the risk of crop injury, the user may also leave out the crop oil concentrate (COC), or replace it with a nonionic surfactant (NIS).</li> <li>• In all cases, the control of emerged weeds may be reduced somewhat due to less than optimum adjuvant effect or weed coverage.</li> </ul>
Atrazine, glyphosate, metolachlor	Expert	<ul style="list-style-type: none"> <li>• For use only in glyphosate tolerant corn (e.g. Agrisure® GT, Roundup Ready®).</li> <li>• Application of this mixture to a corn hybrid that is not glyphosate tolerant will result in crop death.</li> <li>• Do not add urea ammonium nitrate (UAN) or methylated seed oil (MSO) type adjuvants to this tank mixture or crop injury may occur.</li> </ul>
Bromoxynil + atrazine	Buctril® Moxy®	<ul style="list-style-type: none"> <li>• Use this mixture for additional broadleaf weed control.</li> <li>• Add Buctril (2 lb./gal.) or Moxy (2 lb./gal.) at a rate up to 6 fl oz/A.</li> <li>• Add Buctril (4 lb./gal.) at a rate up to 3 fl oz/A.</li> </ul>
Glufosinate	Interline® Liberty® Ignite® Ignite® 280 SL	<ul style="list-style-type: none"> <li>• Use this tank mixture only on corn designated as LibertyLink® or warranted as being tolerant to glufosinate.</li> <li>• Application of this mixture to a corn hybrid that is not glufosinate tolerant will result in severe crop injury or death.</li> <li>• Do not use crop oil concentrate (COC) as an adjuvant for this mixture or severe crop injury may occur.</li> </ul>
Glyphosate	Touchdown Roundup Solo glyphosate products	<ul style="list-style-type: none"> <li>• For use only in glyphosate tolerant corn (e.g. Agrisure GT, Roundup Ready).</li> <li>• Application of this mixture to a corn hybrid that is not glyphosate tolerant will result in crop death.</li> <li>• Add spray-grade ammonium sulfate (AMS) at a rate that delivers 8.5-17.0 lbs. of AMS/100 gallons of water.</li> <li>• If the glyphosate product label calls for an adjuvant in addition to AMS, add a non-ionic surfactant (NIS) at 0.25-0.5% v/v (1-2 quart/100 gallons).</li> <li>• Do not add urea ammonium nitrate (UAN), crop oil concentrate (COC), or methylated seed oil (MSO) type adjuvants to this tank mixture or crop injury may occur.</li> </ul>

Active Ingredient(s)	Representative Brands <sup>1</sup>	Directions
Imazethapyr + imazapyr	Lightning®	<ul style="list-style-type: none"> <li>• For use only on corn designated as Clearfield® corn or warranted by BASF as being tolerant to Lightning Herbicide.</li> <li>• Application of this mixture to a corn hybrid that is not Lightning tolerant will result in severe crop injury or death.</li> <li>• Do not use a Methylated Seed Oil (MSO), or an MSO blend with this mixture or severe crop injury may result.</li> </ul>
Prosulfuron	Peak®	<ul style="list-style-type: none"> <li>• Use this mixture for additional weed control. Refer to product label for list of weeds controlled.</li> </ul>
Primisulfuron methyl + prosulfuron	Spirit®	<ul style="list-style-type: none"> <li>• Use this mixture for additional weed control. Refer to product label for list of weeds controlled.</li> </ul>
Nicosulfuron + rimsulfuron	Steadfast® Steadfast® ATZ Steadfast® Q	<ul style="list-style-type: none"> <li>• Use this mixture for additional weed control. Refer to product label for list of weeds controlled.</li> </ul>
Nicosulfuron + thifensulfuron methyl	Stout®	<ul style="list-style-type: none"> <li>• Use this mixture for additional weed control. Refer to product label for list of weeds controlled.</li> </ul>
Primisulfuron methyl + sodium salt of dicamba	Northstar®	<ul style="list-style-type: none"> <li>• Use this mixture for additional weed control. Refer to product label for list of weeds controlled.</li> </ul>

<sup>1</sup> Refer to individual product labels for precautionary statements, restrictions, rates, approved uses, and a list of weeds controlled.

## ASPARAGUS

Apply Motif broadcast or banded at a rate of 3.0-7.7 fl oz/A to asparagus as a spring application prior to spear emergence, as a post-harvest application (after final harvest), or both.

Use the 3.0 fl oz/A rate for post-emergence control or partial control of the emerged weeds listed in Table 1. Use the 6.0-7.7 fl oz/A rate for pre-emergence control or partial control of the weeds listed in Table 2. For banded applications, the application must be made to account for band width, i.e. to deliver 3.0-7.7 fl oz per treated acre. For the best pre-emergence weed control with spring applications, Motif must be applied after fern mowing, disking or other tillage operation but prior to asparagus spear emergence.

Post-harvest applications must be made in a way that minimizes contact with any standing asparagus spears or ferns and maximizes contact with the weeds and/or soil, e.g. by using a directed or semi-directed type application, or crop injury may occur. With post-harvest applications, the use of an adjuvant will increase the risk of crop injury.

If weeds are emerged at the time of the Motif application, the addition of a crop oil concentrate (COC) type adjuvant at the rate of 1% v/v **or** a nonionic surfactant (NIS) at the rate of 0.25% v/v is recommended. In addition to COC or NIS, a spray grade UAN (e.g. 28-0-0) at the rate of 2.5% v/v **or** ammonium sulfate (AMS) at the rate of 8.5 lb./100 gallons of spray solution may be added for improved burndown of emerged weeds. If weeds have not yet emerged, no adjuvant is recommended.

### Restrictions

- Do not apply more than 7.7 fl oz/A of Motif per year through any combination of applications.
- Do not make more than two applications of Motif per year.

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## BLUEGRASS, RYEGRASS (ANNUAL AND PERENNIAL) AND TALL FESCUE GROWN FOR SEED

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Apply Motif as a pre-emergence application to bare soil (new seeding) or as a post-emergence application to an emerged grass crop.

**Pre-emergence Application:** Apply Motif to a newly seeded crop as a broadcast, surface spray at a rate of 6.0 fl oz/A, prior to crop and weed emergence. Rainfall or irrigation as the newly seeded grass crop emerges from the soil may increase the risk of injury from Motif. Grass crop injury symptoms include temporary bleaching of newly emerged leaves, or in extreme conditions, stunting. For a list of pre-emergence weeds controlled or partially controlled see Table 2. In addition to the weeds listed in Table 2, Motif applied pre-emergence will control mannagrass.

**Post-emergence Application:** Apply Motif as a broadcast post-emergence spray to emerged bluegrass, perennial ryegrass or tall fescue grown for seed at a rate of 3.0-6.0 fl oz/A. Use the 3.0 fl oz/A rate for post-emergence control or partial control of the weeds listed in Table 1. In addition to the weeds listed in Table 2, Motif applied post-emergence will control mannagrass (up to 3 tillers).

Use the 6.0 fl oz/A rate for post-emergence weed control plus extended residual weed control (see Table 2). The addition of a crop oil concentrate type adjuvant at 1% v/v **or** a nonionic surfactant (NIS) type adjuvant at a rate of 0.25% v/v is recommended. Post-emergence applications of Motif may result in temporary bleaching of the grass crop.

In addition to COC or NIS, a spray grade UAN (e.g. 28-0-0) at the rate of 2.5% v/v **or** ammonium sulfate (AMS) at the rate of 8.5 lb./100 gallons of spray solution may also be added for improved control of emerged weeds. The addition of UAN or AMS will improve consistency of post-emergence weed control but will also increase the risk of grass crop injury, especially at Motif rates greater than 3.0 fl oz/A. If grass crop injury is a concern, do not add UAN or AMS to the spray solution.

Tank mixing other pesticides with Motif post-emergence may increase the risk of crop injury. Avoid adding pesticides with emulsifiable concentrate (EC) type formulations to Motif for applications made post-emergence to the crop.

### Restrictions

- Do not harvest the grass crop for seed or straw within 60 days following the application of Motif.
- Do not graze or feed forage from treated areas within 14 days following harvest of seed or straw and at least 74 days after application of Motif.
- Do not make more than two applications of Motif per year.
- Do not apply more than 6 fl oz/A in a single application and not more than 9 fl oz/A of Motif per year through any combination of applications.
- Applications of Motif to grasses grown for seed species not listed on this label may result in severe injury.

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## BUSH AND CANEBERRIES (CROP GROUP 13-07A and 13-07B)

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**Note:** Not all cultivars and types of berries that are included within the Environmental Protection Agencies definition of bush and caneberreries (Crop Subgroups 13-07A and 13-07B) have been tested and shown to have adequate crop safety to products containing mesotrione. Those that have been tested, and are believed to be reasonably fit, are listed below along with use directions for that crop. If Motif is used on bush or caneberreries not listed below, severe crop injury may occur.

**High bush blueberry, lingonberry, red currant, black raspberry, red raspberry, and blackberry:** For a list of weeds controlled see Tables 1 and 2. Apply Motif as a pre-bloom post-directed spray in these crops. Apply to bush or caneberreries at a rate up to 6 fl oz/A. A split application of 3 fl oz/A followed by 3 fl oz/A may be used, with a 14 day spray interval. The use of a crop oil concentrate (COC) type adjuvant at the rate of 1% v/v is recommended, but avoid using COC adjuvants that are injurious to bush or caneberry leaves. Do not apply Motif to bush or caneberreries after bloom begins, or illegal residues may occur.

**Low bush blueberries:** Apply Motif only in the non-bearing year. This application may be a broadcast application. Apply at a rate up to 6 fl oz/A. A split application of 3 fl oz/A followed by 3 fl oz/A may be used, with a

14 day spray interval. The use of a crop oil concentrate (COC) type adjuvant at 1% v/v is recommended. Applications of Motif during dry weather conditions and/or temperatures above 85° can cause injury to Lowbush blueberries. Applications of Motif can cause yellowing or necrosis of leaves and under severe conditions, leaf drop may occur especially on “Sourtop” variety blueberries.

## Restrictions

- Do not make more than two applications of Motif per year.
- Do not apply more than a total of 6 fl. oz/A Motif per year through any combination of applications.

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## CITRUS FRUIT, POME FRUIT, STONE FRUIT AND TREE NUTS

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Apply Motif for post-emergence and residual control of weeds listed in Tables 1 and 2.

**Citrus fruit** (Australian desert lime, Australian finger lime, Australian round lime, Brown River finger lime, calamondin, citron, citrus hybrids, grapefruit, Japanese summer grapefruit, kumquat, lemon, lime, Mediterranean mandarin, sour orange, sweet orange, pummelo, Russell River lime, Satsuma mandarin, sweet lime, Tachibana orange, Tahiti lime, tangelo, tangerine (Mandarin), tangor, trifoliate orange, unqi fruit, cultivars, varieties and/or hybrids of these)

**Pome fruit** (apple, azarole, crabapple, loquat, mayhaw, medlar, pear, Asian pear, quince, Chinese quince, Japanese quince, tejocote, cultivars, varieties and/or hybrids of these)

**Stone fruit** (apricot, Japanese apricot, capulin, black cherry, Nanking cherry, sweet cherry, tart cherry, Chinese jujube, nectarine, peach, plum, American plum, beach plum, Canada plum, cherry plum, Chickasaw plum, Damson plum, Japanese plum, Klamath plum, prune plum, plumcot, sloe, cultivars, varieties and/or hybrids of these)

**Tree nuts** (African nut-tree, almond, beech nut, Brazil nut, Brazilian pine, bunya, bur oak, butternut, Cajou nut, candlenut, cashew, chestnut, chinquapin, coconut, Coquito nut, Dika nut, ginkgo, Guiana chestnut, hazelnut (filbert), heartnut, hickory nut, Japanese horse-chestnut, macadamia nut, Mongongo nut, monkey-pot, monkey puzzle nut, Okari nut, Pachira nut, peach palm nut, pecan, pequi, pili nut, pine nut, pistachio, Sapucaia nut, tropical almond, black walnut, English walnut, yellowhorn, cultivars, varieties and/or hybrids of these)

## Precautions

- To avoid crop injury, apply the spray to the grove or orchard floor and to the weeds, avoiding contact with crop foliage, stems or fruit. Contact of Motif with the crop may result in bleaching injury that is typically temporary. Use trunk guards to protect plants until adequate bark has developed.
- Specified rates are based on broadcast treatment. For band applications around trees in fruit or nut plantings, reduce the broadcast rate of Motif and carrier per acre in proportion to the area actually sprayed. (See Banded Applications Section.)

## Restrictions

- Apply only in pome fruit, stone fruit and nut trees that have been established for a minimum of 12 months. Motif can be applied in citrus trees or plantings that are less than 12 months old which are exhibiting normal growth and vigor.
- Do not apply in orchards that are stressed due to poor weather or other abiotic factors.
- Do not apply when nuts or fruits are on the ground at harvest.
- Do not apply more than a total of 12 fl oz/A (0.376 lb ai) of Motif per year or in a 12-month period through any combination of applications
- Do not apply more than 6 fl oz per acre (0.188 lb ai) for the first application.
- Do not make more than 3 applications of Motif per year or in a 12-month period.
- Allow at least 5 months between applications of Motif at 6 fl oz/A and at least 6 weeks between applications of 6 fl oz/A and subsequent applications of 3 fl oz/A. (Applications must follow one of the four programs listed in Table 6 below.)

- Do not harvest pome fruit, stone fruit or tree nuts within 30 days after application.
- Do not harvest citrus fruit within 1 day after application.
- Do not use on soils with greater than 20% gravel.
- Do not apply through any type of irrigation system.
- Do not apply by air.

## Spray Additives

For application to emerged weeds, the use of crop oil concentrate (COC) type adjuvant at 1% v/v or non-ionic surfactant (NIS) at 0.25% v/v is recommended. Addition of ammonium sulfate or other nitrogen-based adjuvants will increase efficacy when used in combination with COC or NIS. For more information see Spray Additives section on this label.

## Banded Applications

When applying a row or banded treatment of Motif, use the following formula to calculate the amount per acre:

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

## Tank Mix Instructions

Motif may be mixed and applied in combination with most commonly used herbicides registered for use in the approved crops in order to expand the post-emergence weed control spectrum and to help control or manage the development of resistant weeds.

Refer to individual product labels for precautionary statements, restrictions, rates, approved uses and a list of weeds controlled. Always follow the most restrictive wording on products used in tank mixtures.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions, limitations, and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

ACTIVE INGREDIENT	REPRESENTATIVE BRANDS
Bromacil	Hyvar®
Diuron	Karmex®
Glufosinate	Lifeline®, Rely® 280
Glyphosate	Touchdown® Total, Touchdown® HiTech
Indaziflam	Alion®
Norflurazon	Solicam®
Oryzalin	Surflan®
Oxyfluorfen	GoalTender®
Paraquat	Gramoxone® SL 2.0
Pendimethalin	Satellite®, Prowl®
Rimsulfuron	Matrix®
Simazine	Princep®
Bromacil + diuron	Krovar®

## Weed Control (Table 1 and 2)

Motif provides both post-emergence and pre-emergence control of susceptible weeds. For best results, make post-emergence applications before weeds are 5 inches tall (Table 1), or before germination of seed for pre-emergence control (Table 2). Rainfall or irrigation soon after application will improve pre-emergence activity.

## Use Directions

Apply as a directed or shielded spray. Avoid contact with trunk surfaces, fruit or crop foliage. Ensure that the soil is settled, firm and relatively free of debris at time of application. Also ensure that the soil is free of depressions around trees where rain or irrigation water can concentrate. Make the first application of Motif in late fall/early winter or spring and follow one of the programs noted in the Table 6 for subsequent applications.

**Table 6. Application Programs, Rates and Intervals**

Apply Motif in a spray volume of 10-40 gal/A.

Program	Application Rate			Application Interval
	1 <sup>st</sup> Application	2 <sup>nd</sup> Application	3 <sup>rd</sup> Application	
1	6 fl oz/A	6 fl. oz/A	-	20 weeks
2	6 fl oz/A	3 fl oz/A	-	6 weeks
3	6 fl oz/A	3 fl oz/A	3 fl. oz/A	6 weeks
4	3 fl oz/A	3 fl oz/A	3 fl oz/A	6 weeks

For optimum post-emergence weed control, apply Motif to actively growing weeds in tank mixture with burndown herbicides approved for use on these crops. Apply before weeds are 5 inches tall.

For effective residual weed control, Motif must be moved into the weed seed germination zone. For pre-emergence weed control, apply Motif before rainfall or irrigation. Subsequent application(s) of Motif can be made alone or in tank mixture, with the herbicides noted above, if weed emergence occurs.

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## CRANBERRIES

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Apply Motif to bearing or non-bearing cranberry beds for control or suppression of bog St. John's wort (*Hypericum boreala*), rushes (*Juncus canadensis*, *J. effuses*, *J. bufonlus*, *J. tenuis*), sedges spp. (*Carex* spp.), yellow loosestrife (*Lysimachia terrestris*) and silverleaf (*Potentilla pacifica*) in addition to the weeds listed in Tables 1 and 2. Apply to cranberries at a rate up to 8 fl oz/A, no more than two applications per crop per year and not more than a total of 16 fl oz/A per year. If two applications are made, they must be made no closer than 14 days apart. The use of a crop oil concentrate (COC) type adjuvant at 1% v/v or non-ionic surfactant (NIS) at 0.25% v/v is recommended, however COC adjuvants that are injurious to cranberry leaves must not be used.

In non-bearing cranberries, make the Motif application(s) after the bud break stage, but at least 45 days before flooding in fall or winter. In bearing cranberries, make the Motif application(s) after the bud break stage, but at least 45 days prior to flooding or harvest.

Motif may be applied through irrigation systems (chemigation) including center pivot or solid set.

## Chemigation – Sprinkler Irrigation Application for Cranberry Only

Check the irrigation system to ensure uniform application of water to all areas. Thorough coverage of foliage is required for good control. Maintain good agitation in the pesticide supply tank prior to and during the entire application period. Apply by injecting the recommended rate of Motif herbicide into the irrigation system using a metering device that will introduce a constant flow and by distributing the product to the target areas in 0.1-0.2 acre-inch of water. In general, use the least amount of water in this range required for proper distribution and coverage.

Once the application is completed, flush the entire irrigation and injection system with clean water before stopping the system. In addition to the above recommendations, if application is being made during a normal irrigation set



of a stationary sprinkler, inject the labeled rate of Motif herbicide for the area covered into the system only during the end of the irrigation set for sufficient time to provide adequate coverage and product distribution.

## **Chemigation Use Precautions – Sprinkler Irrigation Application**

Apply this product only through sprinkler irrigation systems including center pivot or solid set. 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 non-uniform distribution of treated water.

Contact State Extension Service Specialists, equipment manufacturers or other experts with any questions about calibration.

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.

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back-flow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and are capable of being fitted with a system interlock.

Any alternatives to the above required safety devices must conform to the list of EPA approved alternative devices.

### **Restrictions:**

- Do not make more than 2 applications of Motif per year.
- Do not apply more than a total of 16 fl oz/A Motif per year through any combination of applications.
- Do not apply directly to water or areas where surface water is present outside the bog system.
- Do not apply when wind speed favors drift beyond the area intended for treatment or non-uniform distribution of treated water.
- Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
- Do not contaminate water when disposing of equipment wash water or rinsate.
- Do not apply within 10 feet of surface water outside the bog system.
- Do not spray to runoff.

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## **FLAX**

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Apply Motif pre-emergence at a rate up to 6 fl oz/A. For a list of weeds controlled see Tables 1 and 2. If weeds are emerged at the time of application, the use of a crop oil concentrate (COC) type adjuvant at the rate of 1% v/v

is recommended. In addition, a spray grade UAN (e.g., 28-0-0) at the rate of 2.5% (v/v) or AMS at the rate of 8.5 lb./100 gals. of spray solution may be added to improve the burndown of existing weeds.

Application of Motif to emerged flax can result in severe crop injury.

## Restrictions

- Do not make more than one application of Motif per crop or per year.
- Do not apply more than 6 fl oz/A Motif per crop per year.

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## OATS

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Apply Motif c pre-emergence or post-emergence (but not both).

For pre-emergence control or partial control of the weeds listed in Table 2, apply Motif broadcast at a rate of 6.0 fl oz/A prior to oat emergence. For best pre-emergence weed control, the Motif application must be made before weed emergence.

For post-emergence (after oat emergence) control or partial control of the weeds listed in Table 1, apply Motif at a rate of 3.0 fl oz/A. For best results, apply to emerged weeds that are less than 5" tall. Post-emergence applications of Motif may result in temporary injury of the oat crop, with symptoms such as leaf bleaching, leaf burn and in extreme conditions, stunting.

If emerged weeds are present at the time of the Motif application, the addition of a crop oil concentrate (COC) type adjuvant at a rate of 1% v/v **or** a nonionic surfactant (NIS) type adjuvant at a rate of 0.25% v/v is recommended. In addition to COC or NIS, a spray grade UAN (e.g. 28-0-0) at the rate of 2.5% v/v **or** ammonium sulfate (AMS) at the rate of 8.5 lb./100 gallons of spray solution may be added for improved weed control. If emerged weeds are not present at the time of the Motif application, no additives are recommended. If oat injury is a concern, eliminating the use of UAN or AMS will reduce the risk for post-emergence crop injury. Additionally, the use of NIS instead of COC will also reduce the oat injury risk. However, weed control is also reduced if UAN or AMS is eliminated and when switching from COC to NIS.

Tank mixing other pesticides with Motif post-emergence may increase the risk of injury. Avoid adding pesticides with emulsifiable concentrate (EC) type formulations to Motif for applications made post-emergence to the crop.

## Restrictions

- Do not graze or feed forage from treated areas within 30 days following an application of Motif.
- Do not harvest oats within 50 days following the application of Motif.
- Do not make more than one application of Motif per year.
- Do not apply more than 6 fl. oz/A Motif per year.
- Do not apply Motif pre-emergence (prior to oat emergence) at more than 6.0 fl oz/A/year.
- Do not apply Motif post-emergence at more than 3.0 fl oz/A/year.
- If the oat crop treated with Motif is lost or destroyed, oats may be replanted immediately. If Motif was applied to the lost oat crop, no additional Motif can be applied to the replanted oat crop.

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## OKRA

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Apply Motif as either a row-middle or as a hooded post-direct treatment (but not both).

**Pre-emergence row-middle application:** Apply Motif at a rate of 6.0 fl oz/A as a banded application to the row middles before weed emergence. For this banded application, leave one foot of untreated area over the okra row or 6" to each side of the planted row. For banded applications, the application must be made to account for band width, i.e. to deliver 6.0 fl oz per treated acre. Do not apply Motif directly over the planted okra row or severe crop injury may occur. Injury risk is greatest on coarse textured soils (sand, sandy loam or loamy sand).

**Post-emergence hooded application:** Apply Motif at a rate of 3.0 fl oz/A as a post-emergence directed application using a hooded sprayer for control or partial control of the weeds listed in Table 1. Okra must be at least 3" tall at the time of this application. It is recommended that a nonionic surfactant (NIS) type adjuvant at a

rate of 0.25% v/v be added to the spray solution. For post-emergence hooded applications, the spray equipment must be set up to minimize the amount of Motif that contacts the okra foliage or crop injury will occur. For best post-emergence results, Motif must be applied to actively growing weeds.

## Restrictions

- Do not harvest okra within 28 days following the application of Motif.
- Do not make more than one application of Motif per okra crop.
- Do not apply Motif as a row-middle application at more than 6.0 fl oz per treated acre per year.
- Do not apply Motif as a post-directed application at more than 3.0 fl oz per acre per year.
- Do not apply as a broadcast pre-emergence or broadcast post-emergence application to okra or severe injury will occur.
- If the okra crop treated with Motif is lost or destroyed, okra may be replanted only in the soil band that was not treated with Motif.

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## PEARL MILLET

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Motif may be applied pre-emergence in pearl millet, i.e. after planting but before crop emergence, at a rate up to 6 fl oz/A. For a list of weeds controlled see Table 2. If weeds are emerged at the time of application, the use of a crop oil concentrate (COC) type adjuvant at the rate of 1% v/v is recommended. In addition, a spray grade UAN (e.g., 28-0-0) at the rate of 2.5% (v/v) or AMS at the rate of 8.5 lb./100 gals. of spray solution may be added to improve the burndown of existing weeds. Applications of Motif to emerged pearl millet can result in severe crop injury.

## Restrictions

- Do not make more than one application of Motif per crop or per crop year.
- Do not apply more than 6 fl oz/A per crop or per year.

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## RHUBARB

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Apply Motif prior to crop emergence in established rhubarb.

Apply Motif at a rate of 6.0 fl oz/A to dormant rhubarb (before spring green-up) for control or partial control of the weeds listed in Table 2. If weeds are emerged at the time of application, it is recommended that a crop oil concentrate (COC) type adjuvant at 1% v/v **or** a nonionic surfactant (NIS) type adjuvant at a rate of 0.25% v/v be added to the spray solution. Applications of Motif to rhubarb that is not dormant may result in temporary bleaching symptoms. Rainfall or irrigation after the Motif application may increase the risk of injury to emerging rhubarb.

## Restrictions

- Do not harvest rhubarb within 21 days following the application of Motif.
- Do not make more than one application of Motif per year.
- Do not apply more than 6.0 fl oz/A Motif per year.

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## SORGHUM (GRAIN, FORAGE AND SWEET)

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**Pre-emergence Application:** Apply Motif pre-emergence or pre-plant non-incorporated up to 21 days before planting sorghum for control or partial control of the weeds listed in Table 2.

Apply pre-emergence at a rate of 6.0-6.4 fl oz/A as a broadcast non-incorporated application prior to sorghum emergence. Applying Motif less than 7 days before sorghum planting will increase the risk of crop injury, especially if irrigation or rainfall is received following the application. Injury symptoms include temporary bleaching of newly emerging sorghum leaves. Applying Motif more than 7 days (but not more than 21) prior to planting will reduce the risk of crop injury.

If Motif is applied prior to planting, minimize disturbance of the herbicide treated soil barrier during the planting process in order to lessen the potential for weed emergence.

If emerged weeds are present at the time of the pre-emergence application, it is recommended that a nonionic surfactant (NIS) type adjuvant at a rate of 0.25% v/v **or** a crop oil concentrate (COC) type adjuvant at a rate of 1% v/v be added to the spray solution. In addition to COC or NIS, a spray grade UAN at a rate of 2.5% v/v **or** ammonium sulfate (AMS) at a rate of 8.5 lb./100 gallons of spray solution can be added to the spray solution.

### Pre-emergence Application Restrictions:

- Do not apply more than 6.4 fl oz/A of Motif per year.
- Do not make more than one application of Motif per year.
- Do not apply Motif to emerged sorghum or severe crop injury may occur.
- **Do not use Motif in the production of sudangrass or sorghum-sudangrass hybrids.**
- Do not apply Motif to sorghum that is grown on coarse textured soils (e.g. sandy loam, loamy sand, sand).
- In the State of Texas, do not apply Motif to sorghum grown south of Interstate 20 (I-20) or east of Highway 277.

**Post-Directed:** Apply Motif post-directed to grain sorghum for control or partial control of the weeds listed in Table 1. For best results, apply Motif to actively growing weeds.

Apply at a rate of 3 fl oz/A as a post-directed application when the grain sorghum is at least 8 inches tall, by directing the spray between the crop rows and towards the base of the grain sorghum plant. Direct application of Motif onto grain sorghum foliage can result in crop injury including temporary bleaching. If crop injury does occur, newly emerging leaves following application are typically unaffected.

It is recommended that a nonionic surfactant (NIS) type adjuvant at a rate of 0.25% v/v **or** a crop oil concentrate (COC) type adjuvant at a rate of 1% v/v be added to the spray solution. In addition to COC or NIS, a spray grade Urea Ammonium Nitrate (UAN) at a rate of 2.5% v/v **or** ammonium sulfate (AMS) at a rate of 8.5 lb./100 gallons of spray solution can be added to the spray solution.

Motif may be tank mixed with other herbicides registered for grain sorghum for improved spectrum of weed control. Additionally, these tank mixtures can be used to include a herbicide with a different mode of action to help control or manage the development of resistant weed biotypes. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions, limitations, and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

### Post-Directed Application Restrictions:

- Do not make more than one post-directed application of Motif per year.
- Do not apply more than 3.0 fl oz/A of Motif post-directed and not more than 6.4 fl oz/A of Motif per grain sorghum crop year.
- Do not apply Motif broadcast over-the-top to emerged sorghum or severe crop injury may occur.
- Do not harvest grain sorghum for forage for 30 days following application.
- Do not harvest for grain or stover for 60 days following application.
- Do not apply Motif after the sorghum seedhead has begun to emerge.
- ~~Do not use Motif in the production of forage sorghum, sudangrass, or sorghum-sudangrass hybrids.~~ **Do not use Motif in the production of forage sorghum, sudangrass or sorghum-sudangrass hybrids.**

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## SOYBEANS – Mesotrione tolerant varieties ONLY

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Motif can only be applied **pre-emergence** and only to soybeans that are identified as mesotrione tolerant. Applications to soybeans that are not mesotrione tolerant will result in significant crop injury. For a list of mesotrione tolerant soybean varieties, contact your Seed provider.

**Pre-emergence Application:** For pre-emergence control of the weeds listed in Table 2, apply Motif prior to soybean emergence at a rate of 6.0 fl oz/A. Use the higher rate for longer residual control. This product may be tank mixed with other registered soybean herbicides such as Dual Magnum®, Dual II Magnum, and Prefix®. Refer to the tank mix partner label and follow all precautions and restrictions.

If weeds are emerged at the time of application, add either a non-ionic surfactant (NIS) at 1 qt./100 gallons (0.25% v/v) or a crop oil concentrate (COC) at 1 gallon/100 gallons (1% v/v). In addition to NIS or COC, it is also recommended to add either ammonium sulfate (AMS) at 8.5-17 lbs./100 gallon (or equivalent).

### Restrictions

- Do not apply more than 6.0 fl oz/A per soybean crop per year.
- Do not make more than one application of Motif per year.
- Do not apply Motif to emerged soybeans.
- Do not graze or feed soybean forage or hay to livestock.

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## SUGARCANE

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Apply Motif by ground for pre-emergence, post-emergence over-the-top or post-emergence directed weed control.

Motif may also be applied aerially for pre-emergence or post-emergence weed control in Florida, Louisiana and Texas only.

**Pre-emergence Applications:** Apply Motif for pre-emergence weed control at 6.0-7.7 fl oz/A after the planting of plant-cane or after harvest of ratoon-cane. For a list of weeds controlled pre-emergence, refer to Table 2. If some weeds are already emerged at the time of application, add a crop oil concentrate (COC) type adjuvant at a rate of 1% v/v **or** a nonionic surfactant (NIS) type adjuvant at a rate of 0.25% v/v to the spray solution. In addition to COC or NIS, a spray grade UAN at a rate of 2.5% v/v **or** ammonium sulfate (AMS) at a rate of 8.5 lb./100 gallons of spray solution can be added to the spray solution. For improved pre-emergence weed control, AAtrex or Evik® can be tank mixed with Motif. Refer to the tank mix partner label for specific rates and use directions.

**Post-emergence Applications:** Apply Motif post-emergence at 3.0 fl oz/A for control of the weeds listed in Table 1. Post-emergence applications may be made as a post-over-the-top or as a post-directed spray to the base of the sugarcane. If a pre-emergence application was made earlier in the season, only one post-emergence application can be made. If no pre-emergence application was made earlier in the season, both a post-over-the-top and a post-directed application can be made. For best results, Motif must be applied to actively growing weeds.

For post-emergence applications, it is recommended that a crop oil concentrate (COC) type adjuvant at a rate of 1% v/v **or** a nonionic surfactant (NIS) type adjuvant be added to the spray solution. In addition to COC or NIS, the use of a spray grade UAN (e.g. 28-0-0) at 2.5% v/v **or** ammonium sulfate (AMS) at a rate of 8.5 lb./100 gallons of spray solution can be added for improved control of weeds.

For additional post-emergence weed control, Motif can be tank mixed with atrazine, Asulox® and/or Envoke®. Refer to the tank mix product labels for specific rates and use directions. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions, limitations, and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

### Restrictions

- Do not apply more than 7.7 fl oz/A of Motif as a pre-emergence application.
- Do not apply more than 3.0 fl oz/A of Motif in a post-emergence application.
- Do not make more than two applications of Motif per year. If a pre-emergence application of Motif is

made, only one post-emergence application is allowed.

- Do not make two Motif applications less than 14 days apart.
- Do not apply more than 10.7 fl oz/A of Motif per year.
- Do not harvest sugarcane within 114 days following a post-over-the-top application of Motif (114 day PHI).
- Do not harvest sugarcane within 100 days following a post-directed application of Motif (100 day PHI).

## **TURFGRASS USES**

Motif is applied pre-emergence and post-emergence to provide selective contact and residual control of turfgrass weeds. If applied pre-emergence, Motif is absorbed by the weeds as they emerge from the soil. Pre-emergence activity and control is reduced under dry conditions, and therefore Motif must be activated with 0.15 inches of irrigation if rain hasn't fallen within 10 days of application.

Post-emergent control is obtained by absorption into the soil and contact with foliage. Growth ceases post-application, weeds turn white from chlorophyll loss, and die within three weeks. A repeat application 2-3 weeks after the initial application will improve post-emergence weed control. Add a non-ionic surfactant (NIS) when making post-emergence applications.

Turfgrass color can temporarily become white after treatment, typically occurring 5-7 days post-application and lasting for several weeks. A second application to the same site will cause less whitening of plant tissue.

Motif controls weeds prior to and during seeding of certain turfgrasses during turf renovation (see New Seedings). If making pre-emergence application to established turf, tank mix Motif with other pre-emergence herbicides such as those containing pendimethalin (e.g. UP-End® Hydrocap) for longer residual and broad spectrum control.

Apply Motif at reduced rates of 4 fl oz/A or less if tank mixing with atrazine, bentazon, or simazine. Before tank mixing Motif with other herbicides, conduct a compatibility, safety, and efficacy test before treating larger areas. See tank mix partner labels for directions and precautions. The most restrictive directions apply. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions, limitations, and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

### **Use Sites**

Motif may be applied to commercial and residential turfgrasses. Non-crop area use sites include golf courses, sod farms, athletic fields, parks, residential and commercial properties, cemeteries, airports, and lawns. Do not use on golf course putting greens; maintain a minimum of a 5-foot buffer between putting greens and treated areas.

### **Turfgrass Use Precautions**

- Thoroughly clean application equipment after use to avoid injury to sensitive plants.
- To avoid injury to sensitive species, keep traffic out of treated areas until sprays have dried; irrigate soil lightly to move Motif from turf foliage before resuming normal irrigation.

## Turfgrass Use Restrictions:

- Do not overspray or allow spray to drift to ornamentals or flower beds and gardens. Roses and daylilies are particularly sensitive to Motif.
- Do not apply more than 16 fl oz/A (or 0.50 lb. a.i.) per year or per crop whichever is shorter.
- Do not make more than two applications per acre per year or per crop whichever is shorter.
- Do not plant any crop other than turfgrass for 18 months post-application of Motif to avoid turfgrass injury.
- Do not apply organophosphate or carbamate insecticides within 7 days of applying Motif.
  
- Residential Lawns: Do not make broadcast applications for pre-and post-emergent weed control unless the home lawn is being reseeded and/or renovated as whitening of some turfgrasses may occur.
  
- Do not apply Motif through any type of irrigation system.
- Do not apply by air.
- Do not use treated clippings to mulch trees or vegetable/flower gardens.
- Do not apply this product on bentgrass, *Poa annua*, kikuyugrass, zoysiagrass, seashore paspalum, and bermudagrass when plant injury is unacceptable. Maintain a 5-foot buffer between treated areas and bentgrass or *Poa annua* greens.
- Do not apply over the top of exposed roots of trees and ornamentals.
- Do not use on golf course putting greens; maintain a minimum of a 5-foot buffer between putting greens and treated areas.

## Turfgrass Species Controlled by Motif

<u>Species</u>	<u>Application Rate (Fl Oz per Acre)</u>
Kentucky bluegrass ( <i>Poa pratensis</i> )	5-8 fl oz
Centipedegrass ( <i>Eremochloa ophiuroides</i> )	5-8 fl oz
Buffalograss ( <i>Buchloe dactyloides</i> )	5-8 fl oz
Tall fescue ( <i>Festuca arundinacea</i> )	5-8 fl oz
Perennial ryegrass* ( <i>Lolium perenne</i> )	5 fl oz
Fine fescue* (creeping red, chewings and hard) ( <i>Festuca</i> spp.)	5 fl oz
St. Augustinegrass* (grown for sod) ( <i>Stenotaphrum secundatum</i> )	4 fl oz

\*See additional rate instructions below.

## RESISTANCE MANAGEMENT

There is no known resistance to Motif and no known instances of cross-resistance between the active ingredient in Motif (mesotrione, a Group 27 HPPD inhibitor) and other classes of herbicides. Do not apply less than the specified label instructions. Rotate to a herbicide product with a different mode of action to prevent the occurrence of weed resistance, particularly when the maximum number of applications and/or rate of product has been met and weeds are not controlled.

## APPLICATION INSTRUCTIONS

### Pre-Emergence Applications

Apply 4-8 fl oz/A of Motif in at least 30 gallons of water per acre before seeds germinate and as close to seed germination as possible. Combine this product with another pre-emergence herbicide such as UP-End® Hydrocap for extended control of crabgrass and foxtail.

### Pre-Emergence Application Precautions

- Motif is most effective on established turf when applied post-emergence unless it is combined with another soil active herbicide.

### Pre-Emergence Application Restrictions

- Do not exceed 5 fl oz/A per application to perennial ryegrass, fine fescues, or mixed stands that consist of >50% perennial ryegrass and/or fine fescue.
- St. Augustinegrass sod: Do not exceed 4 fl oz per acre.

### Application to New Seedlings / New Lawns

Apply 5-8 fl oz/A Motif in at least 30 gallons of water per acre before seeding or after seeding of tolerance turfgrass species listed below, except fine fescue, as application to fine fescue can reduce grass density. Motif can be effectively used on grass seed blends that contain <20% by weight hard/fine fescue. For optimal control, apply at grass seeding or as close to seeding as possible.

### New Seedlings / New Lawns Restrictions

- **Do not** spray on newly germinated turfgrass. Delay treatment until grass has been mowed 2-4 times and/or 4 weeks after emergence (whichever is longer).

### Post-Emergence Application Instructions

Apply 4-8 fl oz/A of Motif in at least 30 gallons of water per acre with a NIS surfactant. Make a repeat application 2-3 weeks later for optimal weed control. Apply to young, actively growing weeds.

### Post-Emergence Application Precautions:

- Moisture stress and application to mature weeds can reduce herbicide efficacy.

### Bentgrass (*Agrostis* spp.) / Nimbleweed (*Muhlenbergia schreberi*) Treatment

Apply 5 fl oz/A Motif in at least 30 gallons of water per acre combined with a NIS surfactant at 2-3 week intervals for a maximum of 3 applications. For optimal weed control, apply in late summer/early fall just prior to new growth.

### St. Augustinegrass (Sod uses only) and Centipedegrass Treatment

Apply to established turf ONLY.

### St. Augustinegrass (Sod uses only) and Centipedegrass Restrictions

- Do not exceed 4 fl oz/A Motif if tank mixing with Atrazine or Simazine.
- Do not exceed 0.5 lb./A atrazine or simazine active ingredient. See atrazine/simazine labels for precautions and restrictions.

### Dormant Bermudagrass Application only

Apply 5 fl oz/A of Motif to control winter weeds listed in the Weeds Controlled table below. Make a repeat application 2-3 weeks later. Application of Motif to semi-dormant turf will cause bermudagrass whitening.

### Spot Applications of this product:

Spray Mix	Application Rate	Rate of this Product	Rate of NIS Adjuvant
2 gallons	1 gallon per 1,000 sq. ft.	1 teaspoon	3 teaspoons

### Spot Application Restrictions

- Do not apply more than 16 fl oz/A of Motif per year or per crop (equivalent to 0.5 lb. a.i. per acre per year), whichever is shorter.



## WEEDS CONTROLLED USING PRE-EMERGENCE APPLICATION

Apply Motif with a grass pre-emergence herbicide such as UP-End® Hydrocap, except when used to control weeds in new seedings. Motif will control the following weeds using pre-emergence application:

Common Name	Scientific Name
Barnyardgrass	<i>Echinochloa crusgalli</i>
Bentgrass (Creeping)	<i>Agrostis stolonifera</i>
Bluegrass (Annual) - suppression only	<i>Poa annua</i>
Buckhorn Plantain	<i>Plantago lanceolata</i>
Carpetweed	<i>Mollugo verticillata</i>
Chickweed (Common)	<i>Stellaria media</i>
Chickweed (Mouseear)	<i>Cerastium vulgatum</i>
Clover (Large Hop)	<i>Trifolium aureum</i>
Clover (White)	<i>Trifolium repens</i>
Crabgrass (Large)	<i>Digitaria sanguinalis</i>
Crabgrass (Smooth)	<i>Digitaria ischaemum</i>
Crabgrass (Southern)	<i>Digitaria ciliaris</i>
Foxtail (Yellow)	<i>Setaria glauca</i>
Galinsoga	<i>Galinsoga ciliata</i>
Lambsquarters (Common)	<i>Chenopodium album</i>
Pigweed (Redroot)	<i>Amaranthus retroflexus</i>
Pigweed (Smooth)	<i>Amaranthus hybridus</i>
Purslane (Common)	<i>Portulaca oleracea</i>
Shepherd's purse	<i>Capsella bursa-pastoris</i>
Smartweed (Pale)	<i>Polygonum lapathifolium</i>
Smartweed (Pennsylvania)	<i>Polygonum pennsylvanicum</i>
Speedwell (Persian)	<i>Veronica persica</i>
Speedwell (Purslane)	<i>Veronica peregrine</i>
Wild Carrot	<i>Daucus carota</i>

## WEEDS CONTROLLED USING POST-EMERGENCE APPLICATION

Make a second application of Motif 2-3 weeks after initial treatment. For optimal control add a NIS-type surfactant and apply to young, actively growing weeds. Motif will control the following weeds using post-emergence application:

Common Name	Scientific Name
Barnyardgrass	<i>Echinochloa crusgalli</i>
Bentgrass (Creeping)	<i>Agrostis stolonifera</i>
Buckhorn Plantain	<i>Plantago lanceolata</i>
Buttercup	<i>Ranunculus sardous</i>
Carpetweed	<i>Mollugo verticillata</i>
Chickweed (Common)	<i>Stellaria media</i>
Chickweed (Mouseear)	<i>Cerastium vulgatum</i>
Clover (Large Hop)	<i>Trifolium aureum</i>
Clover (White)	<i>Trifolium repens</i>
Crabgrass (Large)*	<i>Digitaria sanguinalis*</i>
Crabgrass (Smooth)*	<i>Digitaria ischaemum*</i>
Crabgrass (Southern)*	<i>Digitaria ciliaris*</i>
Curly dock	<i>Rumex crispus</i>
Dandelion (Catsear)	<i>Hypochoeris radicata</i>
Dandelion (Common)	<i>Taraxacum officinale</i>
Florida Betony	<i>Stachys floridana</i>
Florida Pusley	<i>Richardia scabra</i>
Foxtail (Yellow)	<i>Setaria glauca</i>
Galinsoga	<i>Galinsoga ciliate</i>
Goosegrass*	<i>Eleusine indica*</i>
Ground Ivy	<i>Glechoma hederacea</i>
Healall	<i>Prunella vulgaris</i>
Henbit	<i>Lamium amplexicaule</i>
Lambsquarters (Common)	<i>Chenopodium album</i>
Lawn Burweed	<i>Soliva sessilis</i>
Lovegrass (Tufted)	<i>Eragrostis pectinacea</i>
Marestail	<i>Conyza Canadensis</i>
Nimblewill	<i>Muhlenbergia schreberi</i>
Nutsedge (Yellow)	<i>Cyperus esculentus</i>
Oxalis	<i>Oxalis stricta</i>
Pigweed (Redroot)	<i>Amaranthus retroflexus</i>
Pigweed (Smooth)	<i>Amaranthus hybridus</i>
Purslane (Common)	<i>Portulaca oleracea</i>

Shepherd's Purse	<i>Capsella bursa-pastoris</i>
Smartweed (Pale)	<i>Polygonum lapathifolium</i>
Smartweed (Pennsylvania)	<i>Polygonum pennsylvanicum</i>
Sowthistle	<i>Sonchus oleraceus</i>
Swinecress	<i>Coronopus didymus</i>
Thistle (Canada)	<i>Cirsium arvense</i>
Verbena	<i>Verbena hastate</i>
Wild Carrot	<i>Daucus carota</i>
Wild Violet	<i>Viola pratensis</i>
Windmillgrass	<i>Chloris verticillata</i>

\*For optimal control, apply to less than 4 tiller crabgrass and goosegrass.

## **STORAGE AND DISPOSAL**

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

### **Pesticide Storage**

Keep container tightly closed when not in use. Do not store near seed, fertilizers, or foodstuffs. Can be stored at temperatures as low as -20°F. Keep away from heat and flame.

### **Pesticide Disposal**

Open dumping is prohibited. Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

### **Container Handling [Less Than or Equal to 5 Gallons]**

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or 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 mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

### **Container Handling [Greater Than 5 Gallons]**

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the person refilling. To clean container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

### **Container Handling [Greater Than 5 Gallons]**

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

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## CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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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 UPL NA Inc or Seller. To the extent permitted by applicable law, Buyer and User agree to hold UPL and Seller harmless for any claims relating to such factors.

UPL 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 permitted by 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 UPL, and, (2) Buyer and User assume the risk of any such use. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, UPL 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.**

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Motif Herbicide (PENDING) Submitted 07/14/23