



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

May 15, 2015

Cherilyn Moore  
Regulatory Specialist  
Syngenta Crop Protection, LLC  
P.O. Box 18300  
Greensboro, NC 27419-8300

Subject: PRIA Label Amendment – Add aerial use for corn and increase in single application rate  
Product Name: Mesotrione 50WG  
EPA Registration Number: 100-1349  
Application Date: 9-19-14  
Decision Number: 495614

Dear Ms. Moore:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. 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.

A stamped copy of your labeling 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 CFR 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 CFR 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 the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

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

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with FIFRA section 6. If you have any questions, please contact Erik Kraft by phone at 703-308-9358, or via email at [kraft.erik@epa.gov](mailto:kraft.erik@epa.gov).

Sincerely,

A handwritten signature in cursive script that reads "Heather Garvie".

Heather Garvie  
Product Manager 24  
Fungicide and Herbicide Branch  
Registration Division (7505P)  
Office of Pesticide Programs

Enclosure

[Booklet]

**GROUP 27 HERBICIDE**

**Mesotrione 50WG**

Herbicide

A Postemergence and Preemergence Herbicide for Control of Annual Broadleaf Weeds in Field Corn, Production Seed Field Corn, Field Corn Grown for Silage, Yellow Popcorn and Sweet Corn

Active Ingredient:	
Mesotrione: (CAS No. 104206-82-8) .....	50.0%
Other Ingredients: .....	50.0%
Total:	100.0%

Mesotrione 50WG is formulated as a wettable granule (WG).

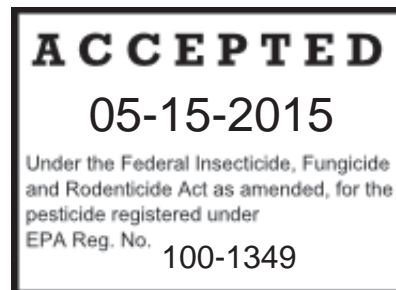
**KEEP OUT OF REACH OF CHILDREN.**

**CAUTION**

See additional precautionary statements and directions for use inside booklet.

EPA Reg. No. 100-1349

EPA Est.



\_\_\_ pounds  
Net Weight

<b>FIRST AID</b>	
<b>If in eyes</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If 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 do so 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.	
<b>HOTLINE NUMBER</b> For 24-Hour Medical Emergency Assistance (Human or Animal), or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident) Call <b>1-800-888-8372</b>	

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## **PRECAUTIONARY STATEMENTS**

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### **Hazards to Humans and Domestic Animals**

#### **CAUTION**

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

### **Personal Protective Equipment (PPE)**

#### **Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant 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 PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
- Remove clothing immediately if pesticide gets inside. Wash thoroughly and put on 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.

### **Surface Water Advisory**

This product may contaminate water through drift of spray in wind. This product has a high potential for runoff for several weeks after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. 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 for contamination of water from runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. Sound erosion control practices will reduce this product's contribution to surface water contamination.

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## CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent 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 SYNGENTA, and (2) Buyer and User assume the risk of any such use. To the extent permitted by applicable law, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.

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

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

## DIRECTIONS FOR USE

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

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

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

- Coveralls
- Shoes plus socks
- Chemical-resistant gloves

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### INFORMATION

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Mesotrione 50WG is a systemic preemergence and postemergence herbicide for the selective contact and residual control of broadleaf weeds in field corn, production seed field corn, field corn grown for silage, yellow popcorn, sweet corn, and other listed crops. When used preemergence, weeds take up the product through the soil during emergence. Dry conditions following application may reduce the preemergence activity of Mesotrione 50WG. If an activating rain (0.25 inches) is not received within 7-10 days after a preemergence application, where appropriate, rotary hoeing is suggested to activate the herbicide. When used postemergence, 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.

Mesotrione 50WG is not effective for the control of most grass weeds. Preemergence grass herbicides or postemergence grass herbicides can be tank mixed with Mesotrione 50WG to provide broad-spectrum weed control in corn (see appropriate section of label for this information). Mesotrione 50WG can be applied postemergence following a preemergence grass herbicide application. Mesotrione 50WG can also be used in combination with a burndown herbicide, prior to planting, to provide added burndown and residual weed control in field corn, production seed field corn, field corn grown for silage, yellow popcorn, and sweet corn.

## **RESISTANCE MANAGEMENT**

Mesotrione 50WG is a **Group 27 Herbicide** (contains the active ingredient mesotrione).

Naturally occurring biotypes of certain broadleaf weed species with resistance to triazines, glyphosate, PPO, HPPD and ALS inhibiting herbicides are known to exist. Performance of Mesotrione 50WG is not affected by the presence of biotypes resistant to triazines, glyphosate, PPO or ALS inhibiting herbicides.

To help prevent the development of resistance to Mesotrione 50WG in corn, always use full labeled rates. If applying Mesotrione 50WG postemergence after a preemergence application of an HPPD inhibiting herbicide, always add atrazine as a tank-mix partner, or use a herbicide with an alternate mode of action that is active on the target species in areas where the use of triazines is not appropriate. No more than 0.24 lb of mesotrione active ingredient can be applied per acre of corn per year (equivalent of 7.7 oz per acre per year of Mesotrione 50WG). If additional herbicide must be applied, it is recommended that a different mode of action be used, i.e., other than an HPPD inhibitor (Group 27 Herbicide). Apply Mesotrione 50WG at full label rates to help prevent selection for, or population shifts toward, marginally tolerant weed species and/or species biotypes.

## **INTEGRATED PEST (WEED) MANAGEMENT**

Integrate Mesotrione 50WG 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.



## WEEDS CONTROLLED

**Table 1. Weeds Controlled with Postemergence Applications of Mesotrione 50WG**

Weed Common Name	Weed Scientific Name	3 fl oz/A	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
Horseweed (maretail)	<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

Weed Common Name	Weed Scientific Name	3 fl oz/A	2.5-3.0 fl oz/A + Atrazine <sup>1</sup>
		Apply to Weeds <5 Inches Tall <sup>2</sup>	
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>Mesotrione 50WG tank mixture with atrazine is approved only for use on corn.

<sup>2</sup>Under 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 Preemergence Applications of Mesotrione 50WG**

Common Name	Scientific Name	Applied Alone	Mesotrione 50WG + Atrazine <sup>1</sup>
Amaranth, palmer	<i>Amaranthus palmeri</i>	C	C
Amarath, 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
Carpetweed	<i>Mollugo verticillata</i>	C	C
Chickweed, common	<i>Stellaria media</i>	C	C
Cocklebur, common	<i>Xanthium strumarium</i>	PC	C
Crabgrass, large	<i>Digitaria sanguinalis</i>	PC	PC
Galinsoga	<i>Galinsoga parviflora</i>	C	C
Jimsonweed	<i>Datura stramonium</i>	C	C
Kochia	<i>Kochia scoparia</i>	PC	C
Lambsquarters, common	<i>Chenopodium album</i>	C	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
Nightshade, eastern black	<i>Solanum ptycanthum</i>	C	C
Nightshade, hairy	<i>Solanum sarrachoides</i>	C	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
Ragweed, common	<i>Ambrosia artemisiifolia</i>	C	C
Ragweed, giant	<i>Ambrosia trifida</i>	PC	C
Smartweed, ladysthumb	<i>Polygonum persicaria</i>	C	C
Smartweed, pale	<i>Polygonum lapathifolium</i>	C	C
Smartweed, Pennsylvania	<i>Polygonum pennsylvanicum</i>	C	C
Sunflower, common	<i>Helianthus annuus</i>	PC	C
Velvetleaf	<i>Abutilon theophrasti</i>	C	C
Waterhemp, common	<i>Amaranthus rudis</i>	C	C
Waterhemp, tall	<i>Amaranthus tuberculatus</i>	C	C

<sup>1</sup>Mesotrione 50WG tank mixture with atrazine is approved only for use on corn. Refer to the crop sections on this label for specific use directions.

C = Control            PC = Partial Control

## ROTATIONAL CROPS

**Immediate:** Corn (all types), asparagus, cranberry, flax, millet (pearl), grasses grown for seed (Kentucky bluegrass, perennial and annual ryegrass, and tall fescue), oats, rhubarb, sorghum (grain and sweet), and sugarcane may be replanted immediately.

**4 Months:** Small grain cereals, including wheat, barley and rye.

**10 Months:** Alfalfa, blueberry, canola, cotton, currant, lingonberry, okra, peanuts, peas<sup>1,2</sup>, potatoes, rice, snap beans<sup>1,2</sup>, soybeans, sunflowers, sweet potatoes, and tobacco.

**18 Months:** Sugar beets, dry beans, cucurbits, red clover, and all other rotational crops may be replanted 18 months after application of Mesotrione 50WG. Planting unspecified rotational crops, or those rotational crops that are specified at shorter than instructed intervals may result in injury to the rotational crop.

<sup>1</sup>Plant these rotational crops only if the following criteria below have been met. If all criteria are not met, plant peas and snap beans a minimum of 18 months following mesotrione application.

- A minimum of 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 Mesotrione at 3 oz product/A or less applied no later than June 30 the year preceding rotational crop planting.
- No other HPPD herbicides were applied the year prior to planting peas and snap beans.

<sup>2</sup>Do not plant peas or snap beans on sand, sandy loam or loamy sands in Minnesota or Wisconsin.

## USE RESTRICTIONS

Do not apply Mesotrione 50WG to white popcorn or ornamental (Indian) corn.

**Do not** cultivate corn within 7 days before or after a Mesotrione 50WG application as weed control from the Mesotrione 50WG application may be reduced.

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

**Do not** apply with suspension fertilizers as the carrier, unless specifically address under one of the tank mixes sections of this label or other product labels containing Mesotrione 50WG, or injury may occur.

**Do not** apply Mesotrione 50WG postemergence in a tank mix with emulsifiable concentrate grass herbicides, unless specifically addressed under one of the tank mix sections of this label, or injury may occur.

**Do not** use aerial application to apply Mesotrione 50WG unless specified otherwise under the specific crop section on the label.

## **USE PRECAUTIONS**

Severe corn injury may occur if Mesotrione 50WG is applied postemergence to corn crops that were treated with Counter® or Lorsban®, which may result in corn crop yield loss.

Severe corn injury may occur if Mesotrione 50WG is applied foliar postemergence in a tank mix with any organophosphate or carbamate insecticide which may result in corn crop yield loss.

Severe corn injury may occur if any organophosphate or carbamate insecticide is applied foliar postemergence within 7 days before or 7 days after Mesotrione 50WG application, which may result in corn crop yield loss.

When weeds are stressed due to drought, heat, lack of fertility, flooding, or prolonged cool temperatures, control can be reduced or delayed since the weeds are not actively growing. Weed escapes or regrowth may occur when application is made under prolonged stress conditions. Optimum weed control will be obtained if an application of Mesotrione 50WG is made following label directions when weeds are actively growing.

Mesotrione 50WG may be applied with pyrethroid type insecticides like DuPont Asana® or Warrior®.

## **SPRAY DRIFT**

**RESTRICTION:** For aerial application use only nozzles producing coarse-ultra coarse droplets. Do not use nozzles producing fine-medium size droplets.

Do not apply when weather conditions may cause drift to nontarget areas. Drift may result in injury to adjacent crops and vegetation. To avoid spray drift, DO NOT apply when wind speed is greater than 10 mph or during periods of temperature inversions. Use of larger droplet sizes will also reduce spray drift.

**AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR.**

The interaction of equipment and weather related factors determine the potential for spray drift. The applicator is responsible for considering all these factors when making a decision.

## Information on Droplet Size

The most effective way to reduce spray drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly or under unfavorable environmental conditions. Refer to the Aerial Application section for specific instructions regarding droplet size.

## Controlling Droplet Size

- Volume – Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure – Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher rate nozzles instead of increasing pressure.
- Number of Nozzles – Use the minimum number of nozzles that provide uniform coverage.

## Sensitive Areas

The pesticide must only be applied when the potential for drift to adjacent sensitive areas, (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, nontarget crops) is minimal (e.g. when wind is blowing away from the sensitive areas).

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## ADDITIONAL SPRAY DRIFT PRECAUTIONS FOR AERIAL APPLICATIONS

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The distance of the outer-most nozzles on the boom must not exceed  $\frac{3}{4}$  the length of the wingspan or rotor.

Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees. Where states have more stringent regulations, they must be observed.

Spray must be released at the lowest height consistent with effective weed control and flight safety.

For best results, quantifiably pattern test each specific aerial application vehicle used for aerial application of Mesotrione 50WG initially and every year thereafter.

**RESTRICTION:** For aerial application use only nozzles producing coarse-ultra coarse droplets. Do not use nozzles producing fine-medium size droplets.

For some use patterns, reducing the effective boom length to less than  $\frac{3}{4}$  of the wingspan or rotor length may further reduce drift without reducing swath width.

Do not make applications at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

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

Drift potential is lowest between wind speeds of 2-10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Whenever possible, avoid application below 2 mph due to variable wind direction and high inversion potential. **Note:** Local terrain can influence wind patterns. Ensure that every applicator is familiar with local wind patterns and how they affect drift.

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

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

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

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## **APPLICATION PROCEDURES**

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### **POSTEMERGENCE GROUND APPLICATION**

For best results, apply Mesotrione 50WG to actively growing weeds. For a list of weeds controlled see Table 1. Susceptible weeds which emerge soon after application of Mesotrione 50WG may be controlled after they absorb the herbicide from the soil. Mesotrione 50WG will not control most grass weeds.

#### **Postemergence Ground Spray Equipment**

Ensure that spray nozzles are uniformly spaced, the same size and type, and 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 – at least 15 inches above the crop canopy.

Apply in a spray volume of 10-30 gal/A. 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 gal.

Flat fan nozzles of 80° or 110° are recommended for optimum postemergence coverage. Do not use floodjet nozzles or controlled droplet application equipment for postemergence 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, resuspend the spray solution by running on full agitation prior to spraying.

### **PREEMERGENCE GROUND APPLICATION**

For a list of weeds controlled preemergence, refer to Table 2.

#### **Preemergence Ground Spray Equipment**

Ensure that spray nozzles are uniformly spaced, the same size and type, and provide accurate and uniform application. Use spray nozzles that provide medium to coarse droplet size to provide good coverage and avoid drift. Apply in a spray volume of 10-80 gal/A using water or liquid fertilizer (excluding suspension fertilizers) as the carrier. 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, resuspend the spray solution by running on full agitation prior to spraying.

## AERIAL APPLICATION

**RESTRICTION:** Mesotrione 50WG can be applied aerially only to corn.

**RESTRICTION:** For aerial application use only nozzles producing coarse-ultra coarse droplets. Do not use nozzles producing fine-medium size droplets.

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

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## SPRAY ADDITIVES

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### Postemergence 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 Mesotrione 50WG use in corn. Refer to the use directions section of each crop section for specific adjuvant instructions.

For postemergence applications made after the crop has emerged, add crop oil concentrate (COC) to the spray solution at rate of 1.0 gal/100 gal of water (1.0% v/v) or add a high surfactant oil concentrate (HSOC) to the spray solution at a rate of 2 qt/100 gallons of water. The use of a nonionic surfactant (NIS) at 1 qt/100 gallons of water (0.25% v/v) instead of a COC or HSOC is allowed, but the weed control achieved with COC or HSOC is consistently better than NIS. **The use of methylated seed oil (MSO) adjuvants or MSO blend adjuvants for postemergence applications of Mesotrione 50WG may cause severe crop injury to occur. MSO adjuvants are not recommended unless directed for a specific tank mix under the MESOTRIONE 50WG COMBINATIONS – POSTEMERGENCE section of this label, or other product labels containing Mesotrione 50WG or unless permitted by a supplemental Mesotrione 50WG label.** In addition to COC or HSOC, 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 gal of spray solution, except if precluded elsewhere on this label or unless by a supplemental Mesotrione 50WG label.

**Do not add UAN or AMS when making postemergence applications of Mesotrione 50WG to yellow popcorn or sweet corn, or severe crop injury may occur.**

For postemergence applications to yellow popcorn and sweet corn, the use of a nonionic surfactant (NIS) instead of a crop oil concentrate (COC) is recommended, so as 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. Because the adjuvant benefits of UAN or AMS are not available in yellow popcorn or sweet corn, weeds less than five inches need to be targeted, and the addition of atrazine is recommended wherever rotational or local atrazine restrictions will allow, in order to achieve the level of weed control that is listed for Mesotrione 50WG plus COC plus UAN or AMS (third column) in Table 1.

**Preemergence Adjuvants**

For Mesotrione 50WG preplant or preemergence 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 Mesotrione 50WG 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 Mesotrione 50WG 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 gal 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** section of this label for recommended tank mixes.

Always refer to labels of other pesticide products for mixing directions and precautions which may differ from those outlined here. Use in accordance with the most restrictive of label limitations and precautions. No label dosage rates can be exceeded. This product cannot be mixed with any product containing a label prohibition against such mixing. Do not tank mix Mesotrione 50WG with any other insecticide, fungicide, fertilizer solution, or adjuvant not recommended on the label without testing compatibility, as poor mixing may result. It is recommended that the compatibility of any tank mix combination be tested on a small scale such as a jar test before actual tank mixing.

Follow the mixing instructions for adding Mesotrione 50WG to the spray tank:

1. Only use sprayers in good running condition with good agitation. Ensure the sprayer is cleaned according to instructions on label of the product used prior to Mesotrione 50WG. For postemergence 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. Avoid using screens finer than 50-mesh.
2. Liquid fertilizer (excluding suspension fertilizers) may be used as the carrier for preemergence applications.
3. 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.
4. When the sprayer or premix tank is half full of water, add AMS and agitate until completely dispersed.
5. Next add Mesotrione 50WG slowly and agitate until completely dissolved. Wait at least 1 minute after the last of the Mesotrione 50WG has been added to the tank to allow for complete dispersion. A longer agitation period may be required

to disperse Mesotrione 50WG when using cold water from sources such as deep drilled wells.

6. If tank mixing, add the tank mix product next.
7. Finally, add adjuvant and UAN, if needed, and then continue to fill tank to desired level with water.

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## CORN CROP USE DIRECTIONS

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Mesotrione 50WG may be applied by ground for preemergence or postemergence weed control in field corn, production seed field corn, field corn grown for silage, yellow popcorn, and sweet corn. Mesotrione 50WG may also be applied aerially for preemergence or postemergence weed control only in the following states: Alabama, Arkansas, Colorado, Florida, Georgia, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Minnesota, Mississippi, Missouri, Nebraska, North Dakota, Ohio, Oklahoma, South Dakota, Tennessee, and Texas. Refer to seed company instructions for use on field corn inbred lines. Special adjuvant restrictions must be followed for postemergence applications of Mesotrione 50WG in yellow popcorn or sweet corn (see the **SPRAY ADDITIVES** section of this label). Do not apply Mesotrione 50WG to white popcorn or ornamental (Indian) corn.

Postemergence applications (after crop emergence) of Mesotrione 50WG 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 hybrid recommendations before making a postemergence application of Mesotrione 50WG to yellow popcorn or sweet corn. Do not include nitrogen based adjuvants (UAN or AMS) when making postemergence applications of Mesotrione 50WG to yellow popcorn or sweet corn.

Temporary crop response (transient bleaching) from postemergence 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.

Do not apply more than a total of 7.7 oz (0.24 lb mesotrione active ingredient) of Mesotrione 50WG per acre per year. Do not make more than 2 applications of Mesotrione 50WG per year. Do not exceed 6.0 oz (0.188 lb ai/A) in a single postemergence application. Do not make the second application of Mesotrione 50WG within 14 days of the first application.

Apply Mesotrione 50WG 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. Do not feed or harvest forage, grain, or stover within 45 days after application.

## MESOTRIONE 50WG USED ALONE – POSTEMERGENCE

Apply Mesotrione 50WG alone at 2.5-6.0 oz/A per application. Use the higher rate for extended residual weed control. Always add an appropriate adjuvant to the spray tank (see the **SPRAY ADDITIVES** section of this label).

For best results, apply Mesotrione 50WG to actively growing weeds. For a list of weeds controlled see Table 1. Susceptible weeds which emerge soon after application of Mesotrione 50WG may be controlled after they absorb the herbicide from the soil. Mesotrione 50WG will not control most grass weeds.

Two postemergence applications of Mesotrione 50WG may be made with the following restrictions.

- Only one postemergence application may be made if Mesotrione 50WG has been applied preemergence. Do not exceed a total of two applications per year.
- Do not exceed a total of 7.7 oz/A (0.24 lb ai/A) of Mesotrione 50WG per year.
- Do not make the second application within 14 days of the first application.
- Application of Mesotrione 50WG at rates less than 3.0 oz/A (0.094 lb ai/A) postemergence may result in incomplete weed control and loss of residual control.
- Do not exceed a total of 6.0 oz/A (0.19 lb ai/A) for all postemergence applications.
- If Mesotrione 50WG is applied postemergence to ground that received a preemergence application of an HPPD inhibiting herbicide, atrazine must be tank mixed with Mesotrione 50WG, or use a herbicide with an alternate mode of action that is active on the target species in areas where the use of triazines is not appropriate.
- If atrazine is mixed with Mesotrione 50WG, do not apply to corn that is more than 12 inches in height.
- 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.

## MESOTRIONE 50WG USED ALONE – PREEMERGENCE

Apply Mesotrione 50WG alone at 6.0-7.7 oz/A (0.188-0.24 lb ai/A) by ground sprayers in a spray volume of 10-30 gal of water (up to 80 gal if applied with liquid fertilizers) per acre for broadleaf weed control. For a list of weeds controlled, refer to Table 2. Mesotrione 50WG may be tank mixed with preemergence grass herbicides for grass control. Refer to the tank mix section for a list of partners.

## MESOTRIONE 50WG COMBINATIONS – POSTEMERGENCE

Apply Mesotrione 50WG at a rate of 2.5-6.0 oz/A (0.078-0.188 lb ai/A) per application. 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 3. Mesotrione 50WG Tank Mixtures for Postemergence Application in Corn**

Tank-Mix Partners <sup>1</sup>	Directions
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>
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>
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>
Basis® Blend	<ul style="list-style-type: none"> <li>Use this mixture for additional weed control.</li> </ul>
Bicep II Magnum® Bicep Lite II Magnum® Cinch® Cinch® ATZ Cinch® ATZ Lite	<ul style="list-style-type: none"> <li>When using these tank mixtures, it is recommended to leave the nitrogen based adjuvant (UAN or AMS) out of 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>
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>
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>
Liberty®	<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>

Tank-Mix Partners <sup>1</sup>	Directions
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>
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>
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>
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>
Steadfast® 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>
Touchdown® Roundup® Abundit Extra 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 lb of AMS/100 gal 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 qt/100 gal).</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>

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

## MESOTRIONE 50WG COMBINATIONS – PREEMERGENCE

Mesotrione 50WG may be applied at a rate of 4.3-7.7 fl oz/A in tank mixture with other registered herbicides (Table 4) for preemergence residual weed control. Refer to Table 2 for a list of weeds controlled by Mesotrione 50WG applied preemergence.

**Table 4. Callisto Tank Mixtures for Preemergence Application in Corn<sup>1</sup>**

AAtrex	Cinch® ATZ Lite	Harness Xtra®
Breakfree NXT	Degree®	Harness Xtra® 5.6L
Breakfree NXT ATZ	Degree Xtra®	Keystone®
Breakfree NXT Lite	Dual II Magnum®	Keystone® LA
Bicep Lite II Magnum	Expert	Outlook®
Bicep II Magnum	Fultime®	Prowl®
Cinch®	Guardman Max®	Surpass® EC
Cinch® ATZ	Harness®	TopNotch®

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

**Used in Combination with Preemergence Burndown Herbicides: Tank Mixed with Abundit Extra, Gramoxone® Brands, Roundup Brands, Touchdown Brands, and/or 2,4-D – Preemergence**

For improved broadleaf weed control with limited residual control prior to planting corn and before corn emergence, apply Mesotrione 50WG at 2.5-3.0 oz/A in tank mixes with Abundit Extra, Gramoxone brands, Roundup brands, Touchdown brands, and/or 2,4-D. For greater residual control, use 4.3-7.7 oz/A of Mesotrione 50WG (see Table 2) with the above products. Use the adjuvant system recommended by the burndown herbicide. Refer to individual product labels for precautionary statements, restrictions, rates, approved uses, and a list of weeds controlled.

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**STORAGE AND DISPOSAL**

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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. Keep away from heat and flame.

**Pesticide Disposal**

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**Container Handling [Plastic Containers]**

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 of a mix tank. And drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10



seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. 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 [Paper and Plastic Bags]**

Non-refillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then, offer for recycling if available, or dispose of empty bag in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

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AAtrex®, AAtrex® Nine-O®, Agrisure®, Bicep II Magnum®, Bicep Lite II Magnum®, Dual II Magnum®, , Expert®, Gramoxone®, Northstar®, Peak®, Spirit®, Touchdown®, Warrior®, and the Syngenta logo are Trademarks of a Syngenta Group Company

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<p>For non-emergency (e.g., current product information), call Syngenta Crop Protection at 1-800-334-9481.</p>
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Manufactured for:  
Syngenta Crop Protection LLC  
P. O. Box 18300  
Greensboro, North Carolina 27419-8300

[Base Label]

**GROUP 27 HERBICIDE**

**Mesotrione 50WG**

Herbicide

A Postemergence and Preemergence Herbicide for Control of Annual Broadleaf Weeds in Field Corn, Production Seed Field Corn, Field Corn Grown for Silage, Yellow Popcorn and Sweet Corn

Active Ingredient:

Mesotrione: (CAS No. 104206-82-8) .....	50.0%
Other Ingredients: .....	50.0%
Total:	100.0%

Mesotrione 50WG formulated as a wettable granule (WG).

**KEEP OUT OF REACH OF CHILDREN.**

**CAUTION**

See additional precautionary statements, pesticide storage and disposal statements, and directions for use inside booklet.

**AGRICULTURAL USE REQUIREMENTS**

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

EPA Reg. No. 100-1349

EPA Est.

\_\_\_\_ pounds  
Net Weight

## Precautionary Statement Statements

### Hazards to Humans and Domestic Animals

#### CAUTION

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

<b>FIRST AID</b>	
<b>If in eyes</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If 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 do so 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.	
<b>HOTLINE NUMBER</b> For 24-Hour Medical Emergency Assistance (Human or Animal), or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident) Call <b>1-800-888-8372</b>	

### 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.

## **Surface Water Advisory**

This product may contaminate water through drift of spray in wind. This product has a high potential for runoff for several weeks after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. 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 for contamination of water from runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. Sound erosion control practices will reduce this product's contribution to surface water contamination.

## **Pesticide Storage**

Keep container tightly closed when not in use. Do not store near seed, fertilizers, or foodstuffs. Keep away from heat and flame.

## **Pesticide Disposal**

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

## **Container Handling [Plastic Containers]**

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 of a mix tank. And drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. 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 [Paper and Plastic Bags]**

Non-refillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then, offer for recycling if available, or dispose of empty bag in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

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Manufactured for:  
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Greensboro, North Carolina 27419-8300

Mesotrione 50WG 1349 MAS AMEND 0914-B – bb – 5-14-15

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