



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

January 26, 2023

Matt Granahan  
U.S. Regulatory Leader  
HELM Agro US, Inc.  
401 E. Jackson St., Suite 1400  
Tampa, FL 33602

Subject: Registration Review Label Amendments Incorporating Mitigation Measures from the Interim Decisions for Metolachlor and Mesotrione and the National Marine Fisheries Services' (NMFS) Biological Opinion on the Effects of Metolachlor on Pacific Salmonids  
*Product Name:* ARGOS ULTRA  
*EPA Registration Number:* 74530-75  
*Application Date:* May 18, 2021 and March 31, 2022  
*Decision Number:* 575867, 582938, 588744

Dear Mr. Granahan:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Metolachlor and Mesotrione Interim Decisions. The Agency has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

This letter also addresses the label mitigation resulting from the NMFS' Biological Opinion on the effects of Metolachlor on Pacific salmonids. The Agency has concluded that your submission is also acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

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.

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 12 months from the date of this letter. After 12 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.

If you have any questions about this letter, please contact Carolyn Smith at [smith.carolyn@epa.gov](mailto:smith.carolyn@epa.gov).

Sincerely,



Linda Arrington, Branch Chief  
Risk Management and Implementation Branch 4  
Pesticide Re-Evaluation Division  
Office of Pesticide Programs

Enclosure

**ACCEPTED**

Jan 26, 2023

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 74530-75

[US EPA Amendment Label 20221130]

<b>METOLACHLOR</b>	<b>GROUP</b>	<b>15</b>	<b>HERBICIDE</b>
<b>MESOTRIONE</b>	<b>GROUP</b>	<b>27</b>	<b>HERBICIDE</b>

# ARGOS™ ULTRA

Herbicide for Control of Annual Grass and Broadleaf Weeds in Field Corn, Seed Corn, Sweet Corn, Yellow Popcorn, and Grain Sorghum

**Active Ingredients: 1 1**

Metolachlor.....45.0%  
 Mesotrione..... 4.0%

**Other Ingredients:**.....51.0%

**TOTAL** ..... 100.0%

\* Contains 3.76 lbs. of metolachlor active ingredient per gallon and 0.33 lbs. of mesotrione active ingredient per gallon.

## KEEP OUT OF REACH OF CHILDREN CAUTION

See label booklet for First Aid, Precautionary Statements and Directions for Use Including Storage and Disposal

EPA Reg. No. 74530-75

EPA Est No. \_\_\_\_\_

Net Content: \_\_\_\_\_

<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.</li> <li>• Then continue rinsing eye.</li> <li>• Call a poison control center or doctor for 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 by mouth to an unconscious person.</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 by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>HOT LINE</b>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For Chemical Emergency Assistance (Spill, Leak, Fire or Accident) call CHEMTREC at 1-800-424-9300.	

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

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
CAUTION**

Prolonged or frequent repeated skin contact may cause allergic reactions in some individuals. Causes moderate eye irritation. Avoid contact with clothing or eyes. Wear protective eyewear. Remove contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling and before chewing gum, drinking, eating, using tobacco, or using the toilet.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Some materials that are chemical resistant to this product are listed below.

**Applicators, Mixers, Loaders and other handlers must wear:**

- Protective eyewear
- Waterproof gloves, except wear chemical-resistant gloves (Barrier Laminate, Nitrile Rubber  $\geq$  14 mils, Neoprene Rubber  $\geq$  14 mils, or Viton  $\geq$  14 mils gloves) when mixed with oil
- Long-sleeved shirt and long pants
- Shoes plus socks

See engineering controls for additional requirements.

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 chewing gum, drinking, eating, 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 this product directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark for terrestrial uses. **DO NOT** contaminate water when cleaning equipment or disposing of equipment wash water or rinsate.

**Reporting Ecological Incidents:**

To report ecological incidents, including mortality, injury, or harm to plants and animals, call 1 (813) 621-8846.

**Ground Water Advisory:**

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

**Surface Water Advisory:**

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

**Non-Target Organism Advisory**

This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of non-target organisms by following label directions intended to minimize spray drift.

**CHEMICAL/PHYSICAL HAZARDS**

DO NOT store or use near heat or open flame.

**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.

**Failure to follow the DIRECTIONS FOR USE and PRECAUTIONS on this label may result in:**

- **Crop Injury**
- **Illegal Residue, or**
- **Poor Weed Control**

**Endangered Species Protection Requirements:**

It is a Federal offense to use any pesticide in a manner that results in an unauthorized "take" (e.g., kill or otherwise harm) of an endangered species and certain threatened species, under the Endangered Species Act section 9. When using this product, you must follow the measures contained in the Endangered Species Protection Bulletin for the area in which you are applying the product. You must obtain a Bulletin no earlier than six months before using this product. To obtain Bulletins, consult <http://www.epa.gov/espp/>, call 1-844-447-3813, or email [ESPP@epa.gov](mailto:ESPP@epa.gov). You must use the Bulletin valid for the month in which you will apply the product.

## AGRICULTURAL USE REQUIREMENTS

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

**Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.**

Exception: If the product is soil-incorporated or soil-injected, 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:

- Protective eyewear
- Coveralls
- Waterproof gloves, except wear chemical-resistant gloves (Barrier Laminate, Nitrile Rubber > 14 mils, Neoprene Rubber > 14 mils, or Viton > 14 mils gloves) when mixed with oil
- Shoes plus socks

## HERBICIDE RESISTANCE MANAGEMENT

Metolachlor and Mesotrione, the active ingredients in this product, are Group 15 and Group 27 herbicides, respectively, based on the mechanism of action classification system of the Weed Science Society of America. Any weed population may contain plants naturally resistant to Group 15 or Group 27 herbicides. The resistant individuals may dominate the weed population if these herbicides are used repeatedly in the same fields. Appropriate resistance management strategies should be followed.

Consult your local company representative, state cooperative extension agent, professional consultant or other qualified authority to determine appropriate actions for controlling specific resistant weeds.

### Weed Management Practices

Resistant populations arise when rare individual plants are uncontrolled by a normal dose of a given herbicide under normal environmental conditions. In the absence of other control measures these individuals survive, produce seed, and eventually become the dominant biotype in the field through continuous selection.

To delay herbicide resistance take one of the following steps:

- Rotate the use of **ARGOS ULTRA** or other Group 15 or Group 27 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available, use the less resistance-prone partner at a rate that will control the target weed(s) equally as well as the more resistance-prone partner. Consult your local extension service or certified crop advisor if you are unsure as to which active ingredient is currently less prone to resistance.

- Adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information related to herbicide use and crop rotation, and that considers tillage (or other mechanical control methods), cultural (e.g., higher crop seeding rates; precision fertilizer application method and timing to favor the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Scout for weeds before application of this product for identification and growth stage
- 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 weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- Contact your local extension specialist or certified crop advisors for additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact your HELM Agro US, Inc. representative at 813-621-8846.

## **INTEGRATED WEED MANAGEMENT**

When the use of a herbicide is required, ARGOS ULTRA should be integrated into an overall weed pest management strategy. Common practices known to reduce weed development and herbicide use should be followed wherever possible. Consult local agricultural and weed authorities for additional IPM strategies established for your area.

## **PRODUCT INFORMATION**

ARGOS ULTRA is a selective preemergence and early postemergence herbicide for control of many annual grass and broadleaf weeds in field corn and seed corn production. ARGOS ULTRA will control many grasses and broadleaf weeds when applied preemergence in grain sorghum, sweet corn and yellow popcorn.

Weeds controlled or partially controlled are listed in Tables 1 and 2. For effective grass control, ARGOS ULTRA must be applied prior to weed emergence.

ARGOS ULTRA will not harm the treated crop when applied according to label use directions under normal growing conditions. During germination and early stages of growth, corn seedlings can be weakened when environmental conditions or other factors result in poor or slow growth. ARGOS ULTRA may result in crop injury when these conditions occur.

### **USE RESTRICTIONS**

- **DO NOT** apply ARGOS ULTRA by aerial application.
- **DO NOT** apply ARGOS ULTRA through any type of irrigation system.
- **DO NOT** apply or incorporate ARGOS ULTRA with flood irrigation.
- **DO NOT** contaminate water used for domestic purposes or for irrigation to non-labeled crops.
- **DO NOT** apply when conditions favor runoff or wind erosion of soil containing ARGOS ULTRA to non-

target areas.

- **DO NOT** apply to frozen or snow covered soils.
- **DO NOT** apply to impervious substrates such as paved or compacted surfaces.
- **DO NOT** sale, use or distribute this product in Nassau and Suffolk Counties in the State of New York.

## **USE PRECAUTIONS**

**Avoid** applying to powdery dry or light sandy soils when wind conditions favor wind erosion. Under these conditions, the soil surface should first be settled by rainfall or irrigation before application.

## **MIXING AND LOADING INSTRUCTIONS**

Precaution must be taken when using this product to prevent back siphoning into wells, spills, or improper disposal of excess pesticide, spray mixtures, or rinsates.

Use check valves or antisiphoning devices on mixing equipment.

**DO NOT** mix/load or use within 50 feet of wells, including abandoned wells, drainage wells, and sink holes. **DO NOT** perform operations that involve mixing, loading, rinsing, or washing of this product into or from pesticide handling or application equipment or containers within 50 feet of any well, unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Pad must be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or wash water, and rain water that may fall on the pad. **DO NOT** allow surface water to either flow over or from the pad, which means the pad must be self-contained. The pad must be sloped to facilitate material removal. Unroofed pad shall be of sufficient capacity to contain at a minimum 110% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad must have a minimum containment capacity of 100% of the capacity of the largest pesticide container or application equipment on the pad. Maintain containment capacities as described above at all times. The above-specified minimum containment capacities do not apply to vehicles when delivering pesticide shipments to the mixing/loading site.

## **APPLICATION INFORMATION**

### **GROUND APPLICATION**

Accurate and uniform application should be made using spray nozzles that are uniformly spaced and of the same type and size. Use spray nozzles that provide medium to coarse droplet size to provide good coverage and avoid drift.

Ensure that all in-line strainer and nozzle screens in the sprayer are 50-mesh or coarser.

Maintain constant agitation from the time the product is mixed until spraying is completed. If agitation must be stopped for 5 minutes or more, re-suspend the spray solution by running on full agitation making sure the solution is completely re-suspended.

**PREEMERGENCE:** Apply ARGOS ULTRA preemergence using water or liquid fertilizer (excluding suspension fertilizers) as the carrier in 10-80 gals./A.

**POSTEMERGENCE:** Apply ARGOS ULTRA preemergence using water as the carrier in 10-30 gals./A.

Good weed coverage is essential for optimum weed control when applied post-emergence.

Use a minimum spray volume of 20 gals./A for postemergence applications when weed foliage is dense. For optimum postemergence coverage, flat fan nozzles are recommended. **DO NOT** use floodjet or venturi



type nozzles or controlled droplet application equipment for postemergence applications. Use only clean water as the carrier when applying ARGOS ULTRA after crop emergence. **DO NOT** use liquid fertilizer for postemergence applications or severe crop injury or crop death may occur.

## **AERIAL APPLICATION**

**DO NOT** apply ARGOS ULTRA using aerial application.

## **ADDITIVES/ 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.

Refer to the use directions section of each crop section for specific adjuvant recommendations.

### **Preemergence Applications**

When ARGOS ULTRA is applied preplant or preemergence (before the crop has emerged) add a nonionic surfactant (NIS) or crop oil concentrate (COC) to increase burndown activity on existing weeds.

### **Postemergence Applications**

When applying ARGOS ULTRA postemergence to corn, use either a nonionic surfactant (NIS) or crop oil concentrate (COC). When using a:

NIS - add at 0.25% v/v (1 qt./100 gals.)

COC - add at a rate of 1% v/v (1 gal./100 gals.) or the equivalent of 1 gal./100 gals.

A COC will provide more consistent weed control than a NIS. However, the COC may result in temporary crop injury. In addition to COC or NIS, a nitrogen based adjuvant may also be added to increase consistency of weed control. However, the use of nitrogen based adjuvants (AMS or UAN) will increase the risk of crop injury and can result in temporary crop injury.

**DO NOT** use methylated seed oil (MSO) with ARGOS ULTRA when applied alone to emerged field corn, or when ARGOS ULTRA is applied as a postemergence tank mixture with other products.

## **MANDATORY SPRAY DRIFT MANAGEMENT**

### **Ground Boom Applications:**

- **DO NOT** release spray at a height greater than 3 feet above the ground or crop canopy.
- Applicators must select the nozzle and pressure that deliver medium or coarser droplets in accordance with American Society of Agricultural & Biological Engineers Standard 572 (ASABE S572).
- **DO NOT** apply when wind speeds exceed 15 miles per hour at the application site.
- **DO NOT** apply during temperature inversions.

### **Boomless Ground Applications:**

- Applicators must select the nozzle and pressure that deliver medium or coarser droplets in accordance with American Society of Agricultural & Biological Engineers Standard 572 (ASABE S572).
- **DO NOT** apply when wind speeds exceed 15 miles per hour at the application site.
- **DO NOT** apply during temperature inversions.

## **SPRAY DRIFT ADVISORIES**

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

### **IMPORTANCE OF DROPLET SIZE**

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

### **Boomless Ground Applications:**

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

### **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.

### **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.

### **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).

## ROTATIONAL CROPS

When ARGOS ULTRA is applied as directed on this label, follow the crop rotation intervals listed below. If ARGOS ULTRA is tank mixed with other products, follow the most restrictive product's crop rotation interval.

### Time Interval between ARGOS ULTRA Application and Replanting or Planting of Rotational Crop

#### ANYTIME

Corn (all types)

Grain Sorghum (seed must be treated with a safener to tolerate metolachlor)

#### 4.5 MONTHS

Barley, Oats, Rye and Wheat

### The Spring Following Application

Cotton

Peanuts

Potato

Soybeans

#### 18 MONTHS

Cucurbits

Dry beans

Peas

Red clover

Snap beans

Sugar beets

Tomatoes

All other rotational crops

### Cleaning Spray Equipment after ARGOS ULTRA Application

Special attention must be given to cleaning equipment before spraying a crop other than labeled crops. 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. Additionally, many commercial spray tank cleaners may be used.
3. Clean the inside of the spray tank with this solution using a pressure washer. Make sure to thoroughly 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. Remove spray boom endcaps and flush dead space with water then replace caps.
5. Dispose of rinsate from steps 1-4 in an appropriate manner (observe and follow all State and Federal regulations).
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.

## MIXING/LOADING INSTRUCTIONS

### MIXING PROCEDURES

**Crop Use Directions** sections of this label contain information on recommended tank mixes.

Clean spray tank, thoroughly rinse and decontaminate before adding either ARGOS ULTRA alone or with tank-mix partners. When water is being used as the carrier, make sure the water is clean.

Always refer to labels of other pesticide products for mixing directions and precautions which may differ from those outlined here. Follow the most restrictive of label limitations and precautions. Do not exceed label dosage rates for ARGOS ULTRA or tankmix partners. **DO NOT** mix ARGOS ULTRA with any product containing a label prohibition against such mixing. Do not tankmix ARGOS ULTRA with any other insecticide, fungicide, fertilizer solution, or adjuvant not recommended on the label without testing compatibility, as poor mixing or crop injury may result. It is recommended that the compatibility of any tank mix combination be evaluated on a small scale such as a jar test before actual tank mixing. See compatibility testing procedure below.

Water or liquid fertilizers excluding suspension fertilizers may be used as carriers for preemergence applications. If fluid fertilizers are used, a compatibility test must be done as mixability is not the same with all fluid fertilizers. Constant agitation is necessary to maintain a uniform mixture during application even if ARGOS ULTRA is physically compatible fluid fertilizer.

Use only clean water as the carrier when applying ARGOS ULTRA after crop emergence. **DO NOT** use liquid fertilizer for postemergence applications or severe crop injury or crop death may occur.

#### Mixing Instructions

1. Only use sprayers in good running condition with good agitation. Make sure the sprayer is cleaned according to instructions on label of the product used prior to ARGOS ULTRA. For postemergence applications, use only clean water for the spray solution.
2. Ensure that all in-line strainer and nozzle screens in the sprayer are 50-mesh or coarser. Screens finer than 50-mesh should not be used.
3. Liquid fertilizer (excluding suspension fertilizers) may be used as the carrier for preemergence applications.
4. For postemergence applications, use only clean water for the spray solution.
5. Begin filling sprayer tank or premix tank with clean water and engage agitator. Agitation must be continued throughout the entire mixing and spraying procedure.
6. After the sprayer or premix tank is half full of water begin adding mix components.
7. Add AMS and agitate until completely dispersed.
8. Add wettable powders or dry flowable products to the tank slowly. Mixing, dispersion and compatibility may be improved with these formulations if they are diluted with water before adding to the tank. Continue to agitate until completely dissolved and dispersed.
9. If a flowable formulation is used, add slowly to the tank while agitating.
10. Add ARGOS ULTRA slowly while agitating.
11. Add any other liquid tankmix products next with emulsifiable concentrates last.
12. If needed add spray adjuvants (COC or NIS) last.
13. Continue to fill tank to desired level with water while agitating.
14. Apply as soon as possible after mixing. **DO NOT** leave mixture in spray tank overnight without agitation.

Compatibility may be compromised if ARGOS ULTRA is added to the spray tank via induction. If an induction tank (or similar equipment) is used, add each product separately and make sure each product is completely dispersed in the spray tank before adding the next product. Rinse the induction tank with water before adding each component for best tank-mix compatibility.

HELM Agro US, Inc. does not recommend that ARGOS ULTRA be added to the spray tank via in-line injection as this may lead to mixing issues.

### **Compatibility Testing**

To ensure compatibility of ARGOS ULTRA with fertilizer carriers or other pesticides, a compatibility test is recommended before tank mixing. The following test assumes a spray volume of 25 gals./A. For other spray volumes, make appropriate changes in the ingredients.

All or part of the water in the spray may be replaced by nitrogen solutions or complete liquid fertilizers (excluding suspension fertilizers). Since liquid fertilizers vary, even within the same analysis, always check compatibility with pesticide(s) before use. Incompatibility of tank mixtures is more common with mixtures of fertilizer and pesticides.

### **Compatibility Testing Procedure**

1. Add 1.0 pt. of carrier (fertilizer or water) to each of two 1 quart jars with tight lids. Use the same source of water that will be used for the tank mix and conduct the test at the temperature the tank mix will be applied.
2. To one of the jars, add ¼ tsp. of a compatibility agent approved for this use (¼ tsp. is equivalent to 2.0 pts./100 gals. spray). Shake or stir gently to mix.
3. To both jars, add the appropriate amount of pesticide(s) in their relative proportions based on recommended label rates. If more than one pesticide is used, add them separately as described above in the Mixing Instruction section of this label. After each addition, thoroughly mix by shaking or stirring gently.
4. After adding all ingredients, cap the jars and tighten. Invert each jar ten times to mix thoroughly. Let the mixtures stand 15-30 minutes and then look for separation, large flakes, precipitates, gels, heavy oily film on the jar, or other signs of incompatibility.
5. Compare the two jars to determine if the compatibility agent is needed in the spray mixture. If either mixture separates, but remixes readily, the mixture can be sprayed as long as good agitation is used.
6. If the mixtures are incompatible, test the following methods of improving compatibility:
  - (a) slurry the dry pesticide(s) in water before addition,
  - or
  - (b) add ½ the compatibility agent to the fertilizer or water and the other ½ to the emulsifiable concentrate or flowable pesticide before addition to the mixture.
7. If incompatibility is still observed, do not use the mixture.
8. After compatibility testing is complete, dispose of any pesticide wastes in accordance with the Storage and Disposal section in this label.

## **WEEDS CONTROLLED**

ARGOS ULTRA applied as directed in this label will control or partially control the weeds listed in:

Table 1 - **Weeds Controlled or Partially Controlled with Preemergence Applications of ARGOS ULTRA**  
and

Table 2 - **Weeds Controlled or Partially Controlled with Postemergence Applications of ARGOS ULTRA**

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

Best weed control will be obtained when ARGOS ULTRA is applied according to all label directions. Weed control may be decreased if a significant rainfall event (or irrigation) does not occur within 7 days after a preemergence application.

For best postemergence results, apply ARGOS ULTRA to actively growing weeds. Postemergence control may be reduced or delayed when weeds are not actively growing due to stress caused by drought stress, heat stress, lack of fertility, or stress due to prolonged cool temperatures.

**Table 1 - Weeds Controlled or Partially Controlled with Preemergence Applications of ARGOS ULTRA**

Common Name	Scientific Name	Controlled	Partially Controlled
Amaranth, palmer	<i>Amaranthus palmeri</i>	X	
Amaranth, powell	<i>Amaranthus powellii</i>	X	
Barnyardgrass	<i>Echinochloa crus-gallii</i>	X	
Buffalobur	<i>Solanum rostratum</i>	X	
Carpetweed	<i>Mullugo verticillata</i>	X	
Cocklebur, common	<i>Xanthium strumarium</i>		X
Crabgrass, large	<i>Digitaria sanguinalis</i>	X	
Crowfootgrass	<i>Dactyloctenium aegyptium</i>	X	
Cupgrass, prairie	<i>Eriochloa contracta</i>	X	
Cupgrass, southwestern	<i>Eriochloa acuminata</i>	X	
Cupgrass, woolly	<i>Eriochloa villosa</i>		X
Foxtail, giant	<i>Setaria faberi</i>	X	
Foxtail, green	<i>Setaria viridis</i>	X	
Foxtail, robust (purple, white)	<i>Setaria viridis</i>	X	
Foxtail, yellow	<i>Setaria pumila</i>	X	
Galinsoga	<i>Galinsoga parviflora</i>	X	
Goosegrass	<i>eleusine indica</i>	X	
Jimsonweed	<i>Datura stramonium</i>	X	
Johnsongrass, seedling	<i>Sorghum halepense</i>		X
Kochia	<i>Kochia scoparia</i>		X
Lambsquarters, common	<i>Chenopodium album</i>	X	
Millet, foxtail	<i>Seraria italica</i>	X	
Millet, wild proso	<i>Panicum miliaceum</i>		X
Morningglory, entireleaf	<i>Ipomoea hederacea</i>		X
Morningglory, ivyleaf	<i>Ipomoea hederacea</i>		X
Nightshade, black	<i>Solanum nigrum</i>	X	
Nightshade, eastern black	<i>Solanum ptycanthum</i>	X	
Nightshade, hairy	<i>Solanum sarrachoides</i>	X	
Nutsedge, yellow	<i>Cyperus esculentus</i>	X	
Panicum, browntop	<i>Panicum fasciculatum</i>	X	

Panicum, fall	<i>Panicum dichotomiflorum</i>	X	
Panicum, Texas	<i>Panicum texanum</i>		X
Pigweed, redroot	<i>Amaranthus retroflexus</i>	X	
Pigweed, smooth	<i>Amaranthus hybridus</i>	X	
Purslane, common	<i>Portulaca oleracea</i>	X	
Pusley, Florida	<i>Richardia scabra</i>	X	
Ragweed, common	<i>Ambrosia artemisiifolia</i>		X
Ragweed, giant	<i>Ambrosia trifida</i>		X
Rice, red	<i>Oryza sativa</i>	X	
Sandbur, field	<i>Cenchrus uncertus</i>		X
Shattercane	<i>Sorghum bicolor</i>		X
Sida, prickly	<i>Sida spinosa</i>		X
Signalgrass, broadleaf	<i>Brachiaria platyphylla</i>		X
Smartweed, ladysthumb	<i>Polygonum persicaria</i>	X	
Smartweed, Pennsylvania	<i>Polygonum pennsylvanicum</i>	X	
Sprangletop, red	<i>Leptochloa filiformis</i>	X	
Velvetleaf	<i>Abutilon theophrasti</i>	X	
Waterhemp, common	<i>Amaranthus rudis</i>	X	
Waterhemp, tall	<i>Amaranthus tuberculatus</i>	X	
Witchgrass	<i>Panicum capillare</i>	X	

**Table 2 - Weeds Controlled or Partially Controlled with Early Postemergence Applications of ARGOS ULTRA**

When applied to broadleaf weeds 3 inches or less listed in the table below, ARGOS ULTRA will provide control or partial control. ARGOS ULTRA will not provide consistent effective control of weeds identified as resistant to postemergence HPPD inhibitors.

<b>Common Name</b>	<b>Scientific Name</b>	<b>Controlled</b>	<b>Partially Controlled</b>
Amaranth, palmer	<i>Amaranthus palmeri</i>	X	
Amaranth, powell	<i>Amaranthus powellii</i>	X	
Buffalobur	<i>Solanum rostratum</i>	X	
Carpetweed	<i>Mullugo verticillata</i>	X	
Cocklebur, common	<i>Xanthium strumarium</i>	X	
Dandelion	<i>Taraxacum officinale</i>		X
Galinsoga	<i>Galinsoga parviflora</i>	X	
Hemp	<i>Cannabis sativa</i>	X	
Horsenettle	<i>Solanum carolinense</i>	X	

Horseweed (Marestail)	<i>Conyza canadensis</i>	X	
Jimsonweed	<i>Datura stramonium</i>	X	
Kochia	<i>Kochia scoparia</i>		X
Lambsquarters, common	<i>Chenopodium album</i>	X	
Morningglory, entireleaf	<i>Ipomoea hederacea</i>		X
Morningglory, ivyleaf	<i>Ipomoea hederacea</i>		X
Mustard, wild	<i>Brassica kaber</i>	X	
Nightshade, black	<i>Solanum nigrum</i>	X	
Nightshade, eastern black	<i>Solanum ptycanthum</i>	X	
Nightshade, hairy	<i>Solanum sarrachoides</i>	X	
Nutsedge, yellow	<i>Cyperus esculentus</i>		X
Pigweed, redroot	<i>Amaranthus retroflexus</i>	X	
Pigweed, smooth	<i>Amaranthus hybridus</i>	X	
Pokeweed	<i>Phytolacca americana</i>	X	
Potatoes, volunteer	<i>Solanum spp.</i>	X	
Purslane, common	<i>Portulaca oleracea</i>		X
Pusley, Florida	<i>Richardia scabra</i>	X	
Ragweed, common	<i>Ambrosia artemisiifolia</i>	X	
Ragweed, giant	<i>Ambrosia trifida</i>	X	
Sida, prickly	<i>Sida spinosa</i>		X
Smartweed, ladysthumb	<i>Polygonum persicaria</i>	X	
Smartweed, Pennsylvania	<i>Polygonum pennsylvanicum</i>	X	
Thistle, Canada	<i>Cirsium arvense</i>		X
Velvetleaf	<i>Abutilon theophrasti</i>	X	
Waterhemp, common	<i>Amaranthus rudis</i>	X	
Waterhemp, tall	<i>Amaranthus tuberculatus</i>	X	

## CROP USE DIRECTIONS

### Corn – Field Corn, Seed Corn, Sweet Corn and Yellow Popcorn

ARGOS ULTRA may be applied by ground for preemergence control of many grasses and broadleaf weeds in field corn, seed corn, yellow popcorn, and sweet corn.

ARGOS ULTRA may be applied by ground early postemergence for the control of broadleaf weeds in field corn and seed corn. **DO NOT** apply ARGOS ULTRA to sweet corn or yellow popcorn postemergence - after the crop has emerged - as crop injury may occur. Refer to Tables 1 and 2 for a list of weeds controlled or partially controlled by ARGOS ULTRA.

### ARGOS ULTRA APPLICATION TIMINGS



## Burndown for Reduced Tillage Situations

Apply ARGOS ULTRA alone or in tank mixture with Helmquat, Helosate Plus Advanced or other paraquat or glyphosate products registered for burndown of existing weeds in reduced or no-till corn and before the crop has emerged. Specific weeds controlled by ARGOS ULTRA are listed in Tables 1 and 2. Read and follow all product labels for specific use directions and information on weeds controlled. Refer to the **ADDITIVES/ADJUVANTS** and **TANK MIX** sections on this label for additional recommendations.

## Early Preplant and Preemergence

ARGOS ULTRA may be applied early preplant (up to 14 days prior to planting) or preemergence in field corn, seed corn, sweet corn and yellow popcorn.

## Postemergence

ARGOS ULTRA may be applied in field or seed corn after emergence until the following stages of growth:  
30 inches in height  
or  
Up to the 8-leaf stage of growth

Use only clean water as the carrier when applying ARGOS ULTRA after crop emergence. **DO NOT** apply postemergence in liquid fertilizer or severe crop injury or crop death will occur. **DO NOT** apply ARGOS ULTRA to emerged sweet corn or yellow popcorn, or severe crop injury may occur. Refer to the **ADDITIVES/ADJUVANTS** section on this label for postemergence adjuvant recommendations.

## ARGOS ULTRA USE RATES IN CORN

Use rates of ARGOS ULTRA ranges from 55 to 66 fluid oz/A for control or partial control of weeds listed in Tables 1 and 2. Percent soil organic matter content (% OM) of the field to which ARGOS ULTRA is to be applied must be known.

### ARGOS ULTRA Use Rates in Corn

ARGOS ULTRA Rate	Lbs. AI Metolachlor Equivalent	Lbs. AI Mesotrione Equivalent
55 fl. oz./A	1.62 lbs. of metolachlor/A	0.14 lbs. of mesotrione/A
66 fl. oz./A	1.94 lbs. of metolachlor/A	0.17 lbs. of mesotrione/A

ARGOS ULTRA is not recommended on soils with organic matter >10% as poor weed control may result.

## TANK-MIX COMBINATIONS

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

### Preemergence - Applied Prior to Crop Emergence

Tank-mix partners listed in the following table (Table 3) may be used preemergence in conventional, no-till or reduced till systems. They may be applied by the same methods and at the same timings as ARGOS ULTRA unless otherwise specified in the tank-mix product label. Follow all tank-mix product labels for use rates and restrictions.

**Table 3: ARGOS ULTRA Tank Mixtures for Preemergence Applications in Corn**

Tank Mix	Objective
2,4-D	Burndown emerged weeds
Atrazine Products	Improved weed control - both broadleaf and grass
Helmquat or other generic paraquat product	Burndown emerged weeds
Helosate and other generic glyphosate product	Burndown emerged weeds
Metribuzin Products	Improved broadleaf weed control
Princep®	Improved weed control - both broadleaf and grass
Touchdown® Brands	Burndown emerged weeds
Kendo or other generic lambda-cyhalothrin product	Control cutworms and other insects

**Early Postemergence - Applied After Crop Emergence**

Tank-mix partners listed in the following table (Table 4) may be used postemergence in conventional, no-till or reduced till systems. They may be applied by the same methods and at the same timings as ARGOS ULTRA unless otherwise specified in the tank-mix product label.

Follow all tank-mix product labels for use rates and restrictions.

Consult the **ADDITIVES/ADJUVANTS** section of this label for recommendations when applying ARGOS ULTRA in postemergence tankmixes to corn.

Verify tankmix compatibility by performing a compatibility test as described above.

**Table 4: ARGOS ULTRA Tank Mixtures for Postemergence Applications in Field Corn**

Tank Mix	Objective
Accent® Q	Emerged grass control
Atrazine Products	Improved weed control - both broadleaf and grass
Basis®	Emerged grass control
Helosate and other generic glyphosate products	See ARGOS ULTRA Program in Glyphosate Tolerant Corn section of this label
Ignite®	See ARGOS ULTRA Program in Liberty Link®Corn section of this label
Northstar®	Improved weed control - both broadleaf and grass
Peak®	Improved weed control - both broadleaf and grass
Resolve® Q	Emerged grass control
Spirit®	Improved weed control - both broadleaf and grass
Status®	Emerged grass control
Steadfast® Q	Emerged grass control
Touchdown Brands	See ARGOS ULTRA Program in Glyphosate Tolerant Corn section of this label
Kendo or other generic lambda-cyhalothrin products	Control cutworms and other insects

## ARGOS ULTRA Programs in Glyphosate Tolerant Corn

### Preemergence

ARGOS ULTRA may be applied preemergence at a rate of 44 fl.oz./A as part of a two-pass weed control system when followed by a postemergence application of a glyphosate based product in glyphosate tolerant corn (e.g. Roundup Ready or Agrisure GT Corn). When used in a two-pass system, ARGOS ULTRA will provide reduced competition of the weeds listed in Table 1 for a period of 30 days or more, thus improving the application timing window as well as the effectiveness of the glyphosate based product application. Follow all directions for use and restrictions on the glyphosate product label.

ARGOS ULTRA may be applied preemergence at 27.5 – 33 fl. oz./A as part of a two-pass weed control system when followed by Halex™ GT in glyphosate tolerant corn (e.g. Roundup Ready or Agrisure GT Corn). Apply ARGOS ULTRA at:

27.5 fl. oz./A on soils with <3% OM  
and  
33 fl. oz./A on soils with >3% OM.

### ARGOS ULTRA Use Rates in Glyphosate Tolerant Corn

ARGOS ULTRA Rate	Lbs. AI Metolachlor Equivalent	Lbs. AI Mesotrione Equivalent
44 fl. oz./A	1.29 lbs. of metolachlor/A	0.113 lbs. of mesotrione/A
27.5 fl. oz./A	0.81 lbs. of metolachlor/A	0.071 lbs. of mesotrione/A
33 fl. oz./A	0.97 lbs. of metolachlor/A	0.085 lbs. of mesotrione/A

Follow all directions for use and restrictions on each product label.

### Postemergence

ARGOS ULTRA may be applied early postemergence at a rate down to 44 fl. oz./A in a tank mix with a glyphosate product (e.g. Helosate Plus Advance, Roundup brands or Touchdown) registered for use over the top in glyphosate tolerant field corn (e.g. Roundup Ready or Agrisure® GT Corn). Target the application of this mixture to weeds in the 1 to 2 inch range to minimize weed competition with the crop. If the glyphosate product has a built-in adjuvant system – that is the product label does not ask for additional adjuvant to be added – only spray-grade ammonium sulfate (AMS) at 8.5 lbs./100 gal. should be added to this mixture. If the glyphosate product label recommends an adjuvant in addition to AMS, add a non-ionic surfactant (NIS) at 0.25% v/v and AMS to this spray mixture.

**DO NOT** add urea ammonium nitrate (UAN), crop oil concentrate (COC), or methylated seed oil (MSO) type adjuvants to these mixtures, or crop injury may occur. Follow all directions for use and restrictions on the glyphosate product label.

ARGOS ULTRA may be applied preemergence at a rate down to 44 fl. oz./A as part of a two-pass weed control system when followed by a postemergence application of a glyphosate based product in glyphosate tolerant corn (e.g. Roundup Ready or Agrisure GT Corn). In this systems approach, ARGOS ULTRA will provide reduced competition of the weeds listed in Table 1 for a period of 30 or more days, thus improving the timing flexibility window and effectiveness of the glyphosate based product application. Follow all directions for use and restrictions on the glyphosate product label.

ARGOS ULTRA may be applied preemergence at 27.5 – 33 fl. oz./A as part of a two-pass weed control system as long as it is followed by Halex™ GT in glyphosate tolerant corn (e.g. Roundup Ready or Agrisure GT Corn). Apply ARGOS ULTRA at 27.5 fl. oz./A on soils with <3% OM and 33 fl. oz./A on soils with >3% OM. Follow all directions for use and restrictions on each product label.

## ARGOS ULTRA Programs in LibertyLink Corn

### Preemergence

ARGOS ULTRA may be applied preemergence at a rate down to 44 fl. oz./A as part of a two-pass weed control system as long as it is followed by a postemergence application of Ignite in field corn designated as LibertyLink. When used in this two-pass system, ARGOS ULTRA will provide reduced competition of the weeds listed in Table 1 for a period of 30 or more days, thus improving the application timing window as well as the effectiveness of the Ignite application. Follow all directions for use and restrictions on the Ignite product label.

### Postemergence

Apply ARGOS ULTRA early postemergence at a rate down to 44 fl. oz./A in a tank mix with Ignite over-the-top in field corn designated as LibertyLink. Target the application of this mixture to weeds in the 1 to 2 inch range to minimize weed competition with the crop. Ammonium sulfate (AMS) may be added as a spray adjuvant as directed on the Ignite label - however, AMS should be the only adjuvant added to this tank mixture. **DO NOT** add urea ammonium nitrate (UAN), crop oil concentrate (COC), non-ionic surfactants (NIS), or methylated seed oil (MSO) type adjuvants to these mixtures, or crop injury may occur. Follow all directions for use and restrictions on the Ignite product label.

### Restrictions for all Corn Uses

- **DO NOT** apply more than 66 fl. oz./A. of ARGOS ULTRA per year.
- **DO NOT** apply ARGOS ULTRA to corn that is larger than the 8-leaf stage of growth or greater than 30 inches tall.
- **DO NOT** graze or feed corn forage from treated areas for 45 days following postemergence application.
- **DO NOT** harvest corn for forage, grain, or stover within 45 days after a postemergence application of ARGOS ULTRA Herbicide.
- **DO NOT** make postemergence applications of ARGOS ULTRA in a tank mix with any organophosphate or carbamate insecticide, or severe corn injury or death may occur.

### Precautions for all Corn Uses

- **DO NOT** apply ARGOS ULTRA postemergence to corn that has received an at-planting application of Counter® or other organophosphate insecticide or severe corn injury or death may result. Environmental conditions that favor poor or slow corn growth will increase the risk or severity of the corn injury.
- **DO NOT** make postemergence corn applications of any organophosphate or carbamate insecticide within 7 days before or 7 days after a ARGOS ULTRA application or severe corn injury or death may result. Environmental conditions that favor poor or slow corn growth will increase the risk or severity of the corn injury.

### ARGOS ULTRA Use Rates in Liberty Link Tolerant Corn

ARGOS ULTRA Rate	Lbs. AI Metolachlor Equivalent	Lbs. AI Mesotrione Equivalent
66 fl. oz./A	1.94 lbs. of metolachlor/A	0.17 lbs. of mesotrione/A
44 fl. oz./A	1.29 lbs. of metolachlor/A	0.113 lbs. of mesotrione/A

## Grain Sorghum

ARGOS ULTRA may be applied preplant non-incorporated 21 days preplant through preemergence for weed control in grain sorghum. Sorghum seed must be treated with a safener that provides tolerance to metolachlor/s-metolachlor (e.g. Concep® III). A list of weeds controlled or partially controlled can be found in Table 1.

ARGOS ULTRA should be applied at a rate of 55 fl. oz./A as a broadcast non-incorporated spray beginning at 21 days before planting and up through planting but before sorghum emergence. Applications of ARGOS ULTRA less than 7 days before sorghum planting will increase the risk of crop injury. This is especially true, if irrigation or rainfall is received following application. Injury symptoms include temporary bleaching of newly emerging sorghum leaves or, in extreme conditions, stunting or partial stand loss. Application of ARGOS ULTRA more than 7 days (but not more than 21) prior to sorghum planting will decrease the risk of crop injury.

When ARGOS ULTRA is applied prior to planting, minimize disturbance of the herbicide-treated soil barrier during the planting process in order to decrease the potential for poor weed control in the disturbed soil zone.

ARGOS ULTRA may also be applied as a split application to grain sorghum. When using the split application program, apply 27.5 to 33 fl. oz./A of ARGOS ULTRA as a non-incorporated early preplant (7-21 days before planting), followed by a second ARGOS ULTRA application at a rate of 25 to 33 fl. oz./A as a preemergence application prior to sorghum emergence. DO NOT exceed a 55 fl. oz./A of ARGOS ULTRA in the split application program. If weeds are present at the time of application, it is recommended that a crop oil concentrate (COC) at a rate of 1% v/v or a nonionic surfactant (NIS) type adjuvant at a rate of 0.25% 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 AMS at a rate of 8.5 lbs./100 gals. of spray may be added to the solution for improved control of emerged weeds. If weeds are not emerged at the time of application, no additives are recommended.

#### Restrictions for Grain Sorghum Uses

1. **DO NOT** apply more than 55 fl. oz./A of ARGOS ULTRA per year.
2. **DO NOT** apply ARGOS ULTRA to sorghum grown on sandy soils (sand, sandy loam, or loamy sand).
3. **DO NOT** apply ARGOS ULTRA to emerged grain sorghum as severe injury will occur.
4. **DO NOT** use ARGOS ULTRA in the production of forage sorghum, sweet sorghum (sorgo), sudangrass, sorghum-sudangrass hybrids, or dual-purpose sorghum.
5. Sorghum seed must be treated with a seed safener that provides tolerance to metolachlor/s-metolachlor (e.g. Concep III) prior to planting, or severe crop injury may occur.
6. In the state of Texas, do not apply ARGOS ULTRA to sorghum grown south of Interstate 20 (I-20) or east of Highway 277.

#### ULTRA Use Rates in Grain Sorghum

ARGOS ULTRA Rate	Lbs. AI Metolachlor Equivalent	Lbs. AI Mesotrione Equivalent
25 fl. oz./A	0.73 lbs. of metolachlor/A	0.064 lbs. of mesotrione/A
27.5 fl. oz./A	0.81 lbs. of metolachlor/A	0.071 lbs. of mesotrione/A
33 fl. oz./A	0.97 lbs. of metolachlor/A	0.085 lbs. of mesotrione/A
55 fl. oz./A	1.62 lbs. of metolachlor/A	0.14 lbs. of mesotrione/A

### STORAGE AND DISPOSAL

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

**Do not use containers for the storage of food, feed, or drinking water drinking water!**

#### 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 -10°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. Rinse spray equipment immediately after

application. Pesticide wastes are hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of as described above, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

**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 ¼ 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.

**CONDITIONS OF SALE  
AND LIMITATION OF WARRANTY AND LIABILITY**

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

Follow Directions for Use of this product 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 HELM Agro US, Inc. or Seller. To the extent of applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold HELM Agro US, Inc. and Seller harmless for any claims relating to such factors.

HELM Agro US, Inc. warrants that this product conforms to the chemical description on the label. This product is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions. This warranty does not extend to the use of this product under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or HELM Agro US, Inc. The buyer and user assume the risk of any such use. **HELM AGRO US, INC. MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.**

To the extent consistent with applicable law, in no event shall HELM Agro US, Inc. or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF HELM AGRO US, INC. 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 HELM AGRO US, INC. OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

HELM Agro US, Inc. and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by a duly authorized representative of HELM Agro US, Inc..

[Optional Alternate Warranty {to be used as an optional replacement to CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY section}]

**WARRANTY DISCLAIMER**

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**OPTIONAL LANGUAGE THAT MAY APPEAR ON THE LABEL**

[See additional Precautionary Statements and Directions for Use inside [the] [book[let].]

[Peel back [label] [book] here

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**LABEL HISTORY**

FILE NAME	REVISION MARK	COMMENTS
074530-00075.20170406.EPA SAL	(RV040617)	EPA SAL
074530-00075.20210518.EPA Amendment	(RV051821)	EPA Amendment – ID
074530-00075.20210831.Label Amendment BiOp and ID	(RV083121)	EPA Amendment – BiOp and ID
074530-00075.20220331.Label Amendment Mesotrione ID	(RV033122)	EPA Amendment – Mesotrione ID
074530-00075.20221130.Label Amendment	(RV113022)	US EPA Review