



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

January 18, 2023

Mary Beth Endres
Regulatory Manager
Axion Ag Products, LLC.
1880 Fall River Drive, Suite 100
Loveland, Co 80538

Subject: Registration Review Label Amendments Incorporating Mitigation Measures from the Interim Decision for S-Metolachlor and the National Marine Fisheries Services' (NMFS) Biological Opinion on the Effects of S-Metolachlor on Pacific Salmonids
Product Name: AX SMOC-GA
EPA Registration Number: 89167-87
Application Dates: 04/16/2021, 08/18/2021
Decision Numbers: 589085, 589172

Dear Mary Beth Endres:

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 S-Metolachlor Interim Decision. The Agency has concluded that your submission is acceptable.

This letter also addresses the label mitigation resulting from the NMFS' Biological Opinion on the effects of S-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 Anitha Kisanga at Kisanga.Anitha@epa.gov.

Sincerely,



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

Enclosure

S-METOLACHLOR	GROUP	15	HERBICIDE
GLUFOSINATE	GROUP	10	HERBICIDE

AX SMOG-GA

HERBICIDE

FOR USE ON CORN (FIELD AND SILAGE), COTTON, SOYBEANS AND LISTED NONCROP SITES

ACTIVE INGREDIENTS:	% BY WT
S-Metolachlor	27.30%
Glufosinate-ammonium	11.65%
OTHER INGREDIENTS:	61.05%
TOTAL:	100.00%

This product contains 2.5 pounds active ingredient s-metolachlor and 1.07 pounds active ingredient glufosinate per U.S. gallon.

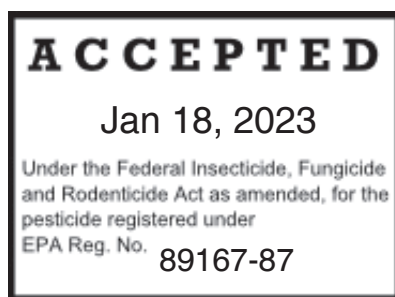
KEEP OUT OF REACH OF CHILDREN
CAUTION / PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
 (If you do not understand the label, find someone to explain it to you in detail).

For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300

[See inside label booklet for First Aid, Precautionary Statements and Directions for Use.]
[SEE INSIDE BOOKLET FOR FIRST AID AND ADDITIONAL PRECAUTIONARY STATEMENTS.]

Not for Sale, Sale into, Distribution and/or Use in Nassau and Suffolk Counties of New York State.



EPA Reg. No.: 89167-87

EPA Est. No.: _____

Net Contents: ____ Gal (____ L)

Manufactured For:
 AXION AG PRODUCTS, LLC
 1880 Fall River Drive, Suite 100
 Loveland, CO 80538

030122

FIRST AID	
IF SWALLOWED:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • DO NOT induce vomiting unless told to by the poison control center or doctor. • DO NOT give anything by mouth to an unconscious person.
IF ON SKIN:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
IF IN EYES:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
NOTE TO PHYSICIAN: May pose an aspiration pneumonia hazard. Contains petroleum distillate.	
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call the National Pesticides Information Center (NPIC) at 1-800-858-7378 or your poison control center at 1-800-222-1222 . For Chemical Spill, Leak, Fire or Exposure, call CHEMTREC 800-424-9300 .	

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

CAUTION. Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves made of barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, or Viton ≥14 mils

User Safety 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 Controls Statement

Mixers and loaders supporting aerial applications are required to use closed systems. The closed system must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.607(d-e)]. When using the closed system, the mixers' and loaders' PPE requirements may be reduced or modified as specified in the WPS.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.607(d-e)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS
<p>User should:</p> <ul style="list-style-type: none"> • Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. • Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. • Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

DO NOT apply directly to water or to areas where surface water is present. **DO NOT** apply to intertidal areas below the mean high water mark. **DO NOT** contaminate water by cleaning of equipment or disposal of equipment wash waters or rinsate.

Glufosinate, an ingredient in AX SMOC-GA, is toxic to vascular plants and must be used strictly in accordance with the drift and run-off precautions on this label in order to minimize off-site exposures.

Ground Water Advisory

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

Surface Water Advisory

S-metolachlor 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/S-metolachlor 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.

Reporting Ecological Incidents:

To report ecological incidents, including mortality, injury, or harm to plants and animals, call 844-425-8488.

DIRECTIONS FOR USE

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

DO NOT use this product until you have read the entire label. **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.

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. You must use the Bulletin valid for the month in which you will apply the product.

Not for Sale, Sale into, Distribution and/or Use in Nassau and Suffolk Counties of New York State.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard (WPS), 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 WPS.

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

PPE required for early entry to treated areas that is permitted under the WPS and that involves contact with anything that has been treated, such as plants, soil or water is: coveralls worn over short-sleeved shirt and short pants; chemical -resistant gloves made of barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, neoprene rubber ≥14 mils, polyvinyl chloride (PVC) ≥14 mils or Viton ≥14 mils; chemical resistant footwear plus socks; protective eyewear (goggles, face shield or safety glasses).

IMPORTANT CROP SAFETY INFORMATION READ BEFORE USING THIS PRODUCT

Burndown treatments

For row crop applications in corn, cotton, or soybean, this product may be applied to any conventional or transgenic variety as a burndown treatment prior to planting or prior to crop emergence.

Post emergent treatments

Post emergence row crop applications of this product may be made only to crops resistant to glufosinate, one of the active ingredients in this product, (glufosinate resistant crops). The basis of selectivity of this product in glufosinate-resistant crops is the presence of a gene resistant to glufosinate. **Crops not containing this glufosinate resistant gene will not be resistant to this product when used post emergent, and severe crop injury and/or death may occur. DO NOT allow spray to contact foliage or green tissue of desirable vegetation other than crops resistant to the active ingredient in this product.**

Post emergent applications of this product may be made to conventional or other transgenic cotton not resistant to the active ingredient in this product using a hooded sprayer.

PRODUCT INFORMATION

This product is a water-soluble herbicide that provides dual activity to the weeds being treated. It provides non-selective, broad-spectrum herbicide activity for control of annual and perennial grass and broadleaf weeds that have already emerged, and is a herbicide that is absorbed by weeds shortly after germination that inhibits weed root and shoot development. This product will control various grass and broadleaf weeds both pre-emergent and post-emergent to weed growth. Uses include applications as broadcast burndown applications prior to planting or crop emergence in labeled conventional row crops; and as over-the-top applications in corn, cotton, and soybeans designated as glufosinate resistant. This product may be used for weed control in non-glufosinate resistant cotton when applied with a hooded sprayer in-crop.

Injury may occur following the use of this product under abnormally high soil moisture conditions during early development of the crop. Always follow a responsible integrated weed management program. Contact your local agronomic advisor for more specific information on integrated weed management in your area.

WEED RESISTANCE MANAGEMENT

For resistance management, this product contains both a Group 10 (Glufosinate) and Group 15 (S-metolachlor) herbicide. Any weed population may contain plants naturally resistant to Group 10 and/or Group 15 herbicides. The resistant individual may dominate the weed population if these herbicides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

Weed Management

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

- Rotate the use of this product or other Group 10 and Group 15 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in the 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 before and after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method such as hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, 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 AXION AG PRODUCTS, LLC at 844-425-8488.

Management of Resistant Biotypes

Since the occurrence of resistant weeds cannot be determined until after product use and scientific confirmation, manufacturer is not responsible for any losses that may result from the failure of this product to control resistant weed biotypes.

The following good agronomic practices are recommended to reduce the spread of resistant biotypes:

- If a naturally occurring resistant biotype is present in your application site, this product should be tank-mixed or applied sequentially with an appropriately labeled herbicide with a different mode of action to achieve control.
- Cultural and mechanical control practices (e.g. crop rotation or tillage) may also be used as appropriate.
- Scout treated application site after herbicide applications and control escaping weeds including resistant biotypes before they set seed.
- Thoroughly clean equipment before leaving fields known to contain resistant biotypes.
- Contact your local sales representative, crop advisor, or extension agent to find out if suspected resistant weeds to these Mode of Actions have been found in your region. **DO NOT** assume that each listed weed is being controlled by multiple mechanisms of action. Co-formulated active ingredients are intended to broaden the spectrum of weeds that are controlled. Some weeds may be controlled by only one of the active ingredients in this product.

Integrated Pest (Weed) Management

This product may be integrated into an overall weed pest management strategy whenever the use of an herbicide is required. Practices known to reduce weed development (tillage, crop competition) and herbicide use (weed scouting, proper application timing, banding) should be followed wherever possible. Consult local agricultural and weed authorities for additional IPM strategies established for your area.

ROTATIONAL CROP RESTRICTIONS

Rotational crop planting intervals following application of AX SMOC-GA are listed below. Failure to comply with these restrictions may result in illegal residues in rotated crops.

In order to make a replant application of AX SMOC-GA, the application to the previous crop must have had been made at less than or equal to 1.9 pounds active ingredient s-metolachlor (97 fluid ounces of AX SMOC-GA) per acre, and the previous crop must not have had a lay-by or other post-emergent application.

Rotational Crop	Plant-back Interval (Minimum Rotational Crop Planting Interval from Last Application)
Sweet Corn, Corn, Cotton, Soybeans, Sugar Beets	May be planted at any time
Rice, Buckwheat	The spring following the last treatment.
Small Grains (barley, oats, rye, teosinte, triticale, and wheat).	135 Days (4.5 months)
All Other Crops Not Listed	365 Days (12 months)

WEEDS CONTROLLED

Volunteer glufosinate resistant crop plants (corn, cotton, soybeans, sugar beets) from the previous season will not be controlled by applications of AX SMOC-GA.

See **Application Instructions** and **Crop Use Directions** for specific use directions
IMPORTANT. If application is CORN POST-EMERGENT or COTTON PRE-PLANT / PRE-EMERGENT ON COARSE SOILS (use rate of 48 fluid ounces per acre), reduce the maximum weed height or diameter of the weeds controlled below by 2-inches and treat this as maximum weed height or diameter (in inches).

Broadleaf Weeds Controlled

Weeds Controlled Prior to Weed Emergence	
Amaranth, Powell	Spiderwort, Tropical
Control Prior to Weed Emergence, and Existing Weeds When Treated at Height Indicated	
WEED	MAXIMUM WEED HEIGHT OR DIAMETER (INCHES)
Amaranth, Palmer	4
Carpetweed	6
Galinsoga (hairy, small flower)	6
Nightshade, Eastern black	6
Pigweed (prostrate, redroot, smooth, tumble) ²	4
Pusley, Florida	3
Waterhemp (common, tall) ²	5
Control of Existing Weeds When Treated at Height Indicated	
WEED	MAXIMUM WEED HEIGHT OR DIAMETER (INCHES)
Anoda, spurred	5
Beggarweed, Florida [†]	5
Black medic	7
Blueweed, Texas	7
Buckwheat, wild	7
Buffalobur	7
Burcucumber	8
Catchweed bedstraw (cleavers)	4
Chickweed, common	8
Cocklebur, common	12
Copperleaf, hophornbeam	6
Cotton, volunteer ¹	6
Croton, tropic	5
Croton, woolly	4
Eclipta [†]	6
Devil's claw	4
Fleabane, annual	6
Groundcherry, cutleaf	5
Geranium, cutleaf	6

Hempnettle	6
Horsenettle, Carolina ³	4
Jimsonweed	8
Knotweed	5
Kochia2	6
Ladysthumb	12
Lambsquarters, common ^{S, 2, 4}	4
Mallow, common	6
Mallow, Venice	8
Marestail	6
Marshelder, annual	6
Morningglory (entireleaf, ivyleaf, pitted, tall) ²	8
Morningglory, sharppod ²	4
Morningglory, smallflower ²	6
Mustard, wild	6
Nightshade, black	6
Nightshade, hairy†	8
Pennycress (stinkweed)	6
Puncturevine	6
Purslane, common†	4
Ragweed, common	10
Ragweed, giant	10
Senna coffee	6
Sesbania, hemp	6
Shepherd's-Purse	6
Sicklepod (java bean)	6
Sida, prickly	5
Smartweed, Pennsylvania	12
Smellmelon	6
Sowthistle, annual	8
Soybeans, volunteer ¹	8
Spurge (prostrate, spotted)	4
Starbur, bristly	6
Sunflower, common	12
Sunflower, prairie	5
Sunflower, volunteer	10
Thistle, Russian ³	6
Velvetleaf ^{2, 4}	4

† Suppression prior to weed emergence; control of existing weed if treated at specified height.

^S Suppression

¹ Volunteer Glufosinate resistant crops from the previous season will not be controlled.

² For applications to corn, tank mixing with atrazine may enhance weed control of this species.

³ May require sequential applications for control.

⁴ For optimal control, make applications between dawn and 2 hours before sunset.

Grass Weeds & Sedges Controlled

Weeds Controlled Prior to Weed Emergence	
Crowfootgrass	Ryegrass, Italian
Cupgrass, (prairie, Southwestern)	Nutsedge, yellow
Foxtail, millet	

Grass Weeds Controlled

Control Prior to Weed Emergence, and Existing Weeds When treated at Height Indicated	
WEED	MAXIMUM WEED HEIGHT OR DIAMETER (INCHES)
Barnyardgrass	5
Crabgrass (large, smooth) ²	5
Cupgrass, woolly [†]	10
Foxtail, (bristly, robust purple)	8
Foxtail (giant, green)	10
Foxtail, yellow ²	4
Goosegrass ³	3
Johnsongrass, seedling [†]	5
Millet, proso volunteer [†]	7
Panicum, fall	5
Panicum, Texas [†]	6
Rice, red	6
Sandbur, field ^{†2}	2
Shattercane [†]	8
Signalgrass, broadleaf	5
Sorghum, volunteer	8
Witchgrass	6
Control of Existing Weeds When Treated at Height Indicated	
WEED	MAXIMUM WEED HEIGHT OR DIAMETER (INCHES)
Barley, volunteer ³	4
Bluegrass, annual	5
Corn, volunteer ¹	10
Junglerice	5
Oat, wild ²	4
Rice, volunteer ¹	6
Sprangletop	6
Stinkgrass	6
Wheat, volunteer ²	5
Barley, volunteer ³	4

[†] Suppression prior to weed emergence; control of existing weed if treated at specified height.

¹ Volunteer Glufosinate resistant crops from the previous season will not be controlled. A timely cultivation 7 to 10 days after an application and/or retreatment 10 to 21 days after the first application will aid in controlling dense clumps of volunteer corn.

² For best control of yellow foxtail, field sandbur, crabgrass, and wild oats, treat prior to tiller initiation.

³ A sequential application may be necessary for control.

APPLICATION AND MIXING PROCEDURES

Uniform, thorough spray coverage is important to achieve consistent weed control.

Ground application: Refer to the **Weeds Controlled** tables or **Applications Instructions and Crop Use Directions** for application rates. To avoid drift and ensure consistent weed control, apply AX SMOC-GA with the spray boom as low as possible while maintaining a uniform spray pattern.

Apply AX SMOC-GA broadcast in a minimum of 10 gallons of water per acre using a minimum spray pressure of 40 psi and a maximum ground speed of 10 mph. The use of 80 degree or 110 degree flat fan nozzles will provide optimum spray coverage and canopy penetration. Application of the spray at a 45-degree angle forward will result in better spray coverage. Under dense weed/crop canopies, use a broadcast rate of 15 to 20 gallons of water per acre so that thorough spray coverage will be obtained. Base

boom height on nozzle manufacturer directions. See the **Spray Drift Management** section of this label for additional information on proper application of AX SMOC-GA.

Aerial Application: Thorough coverage is necessary for best weed control. For optimal weed control, apply AX SMOC-GA in a minimum of 5 gallons per acre. See the **Spray Drift Management** section of this label for additional information on proper application of AX SMOC-GA.

Application Restrictions:

- **DO NOT** use flood jet nozzles, raindrop nozzles, controlled droplet application equipment, or air-assisted spray equipment.
- **DO NOT** apply when winds are gusty, or when conditions favor movement of spray particles off the desired spray target.
- When conditions for wind erosion exist, **DO NOT** apply this product to light sandy soils or soils that have a powder dry surface. If these conditions exist, mitigate by irrigation or rainfall prior to application.
- **DO NOT** apply this product to highly compacted or paved surfaces or any other surfaces that are impervious.
- Unless a minimum of 1/2 inch of rain occurs prior to the first irrigation after application, on-target crops must **NOT** be exposed to the furrow or first flood irrigation tailwater from fields treated with this product.

Compatibility Testing

If AX SMOC-GA will be mixed with pesticide products not listed on this label, test the compatibility of the intended tank mixture before mixing the products in the spray tank. The following procedure assumes a spray volume of 25 gallons per acre. For other spray volumes, adjust the amount of the water used accordingly. Check compatibility using this process:

1. In a clear 1-quart jar, place 1.0 pint of water from the source that will be used to prepare the spray solution.
2. For each pound of a dry tank mix partner to be applied per acre, add 1.5 teaspoons to the jar.
3. For each 16 fluid ounces of a liquid tank mix partner to be applied per acre, add 0.5 teaspoon to the jar.
4. For each 16 fluid ounces of this product to be applied per acre, add 0.5 teaspoon to the jar.
5. After adding all the ingredients, place a lid on the jar and tighten, then invert 10 times to mix.
6. Allow the mixture to stand for 15 minutes, then evaluate the solution for uniformity and stability. Look for separation, large flakes, precipitates, gels, heavy oily film on the jar, or other signs of incompatibility. If the tank mix partners are not compatible, **DO NOT** use the mixture in a spray tank.
7. Once compatibility testing is complete, dispose of any pesticide wastes in accordance with the **Storage and Disposal** section of this label

Mixing and Loading Instructions

Take care when using this product to prevent back-siphoning into wells, spills, or improper disposal of excess pesticide, spray mixtures, or rinsates. Check-valves or antisiphoning devices must be used on all mixing and/or irrigation equipment.

This product must not be mixed or loaded within 50 feet of perennial or intermittent streams and rivers, natural or impounded lakes and reservoirs. This product must not be mixed/loaded or used within 50 feet of all wells, including abandoned wells, drainage wells, and sink holes. Operations that involve mixing, loading, rinsing, or washing of this product into or from pesticide handling or application equipment or containers within 50 feet of any well are prohibited, unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or wash water, and rain water that may fall on the pad. Surface water shall not be allowed to either flow over or from the pad, which means the pad must be self-contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain at a minimum 1.10% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment capacity of 100% of the capacity of the largest pesticide container or application equipment

on the pad. Containment capacities as described above shall be maintained at all times. The above-specified minimum containment capacities do not apply to vehicles when delivering pesticide shipments to the mixing/loading site.

Tank Mixing Instructions

AX SMOC-GA may be applied in tank mix combinations with labeled rates of other products labeled for the timing and method of application for the crop to be treated. Use the tank mix partner in accordance with label limitations and restrictions. **DO NOT** exceed label dosage rates. This product may not be mixed with any product containing a label prohibition against such mixing. Refer to the specific crop section for rates and other restrictions.

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.

AX SMOC-GA must be applied with properly calibrated and clean equipment. This product is formulated to mix readily in water. Prior to adding AX SMOC-GA to the spray tank, ensure that the spray tank is thoroughly clean, particularly if a herbicide with the potential to injure crops was previously used (see **Cleaning Instructions**).

Mix AX SMOC-GA with water to make a finished spray solution as follows:

1. Fill the spray tank half full with water.
2. Begin agitation.
3. If mixing with a flowable/wettable powder tank mix partner, prepare a slurry of the proper amount of the product in a small amount of water. Add the slurry to the spray tank.
4. Add the appropriate amount of ammonium sulfate (AMS) to the spray tank.
5. If mixing with a liquid tank mix partner, add the liquid mix partner next.
6. Complete filling the spray tank with water.
7. Add the proper amount of AX SMOC-GA and continue agitation.
8. If foaming occurs, use a silicone-based antifoam agent.

Ensure that all spray system lines including pipes, booms, etc. have the correct concentration of spray solution by flushing out the spray system lines before starting the crop application.

If tank mix partners listed on this label are added, maintain good agitation at all times until contents of the tank are sprayed. If the spray mixture is allowed to settle, thorough agitation is required to re-suspend the mixture before spraying is resumed. Keep bypass line on or near bottom of tank to minimize foaming. Screen size in nozzles or line strainers must be 50 mesh or larger.

Cleaning Instructions

Before using AX SMOC-GA, thoroughly clean bulk storage tank, refillable tank, nurse tanks, spray tank, lines, and filter, particularly if a herbicide with the potential to injure crops was previously used. Ensure that equipment is thoroughly rinsed using a commercial tank cleaner.

After using AX SMOC-GA, triple rinse the spray equipment and clean with a commercial tank cleaner before using for crops not labeled as LibertyLink or glufosinate resistant. Make sure any rinsate or foam is thoroughly removed from spray tank and boom. Rinsate may be disposed following the pesticide disposal directions on this label.

MANDATORY SPRAY DRIFT MANAGEMENT

Aerial Applications:

- **DO NOT** release spray at a height greater than 10 feet above the ground or vegetative canopy, unless a greater application height is necessary for pilot safety.
- Applicators are required to select the nozzle and pressure that deliver medium or coarser droplets (ASABE S641).

- If the wind speed is 10 miles per hour or less, applicators must use 1/2 swath displacement upwind at the downwind edge of the field. When the wind speed is between 11 to 15 miles per hour, applicators must use 3/4 swath displacement upwind at the downwind edge of the field.
- **DO NOT** apply when wind speeds exceed 15 mph at the application site. If the wind speed is greater than 10 mph, the boom length must be 65% or less of the wingspan for fixed wing aircraft and 75% or less of the rotor diameter for helicopters. Otherwise, the boom length must be 75% or less of the wingspan for fixed-wing aircraft and 90% or less of the rotor diameter for helicopters.
- **DO NOT** apply during temperature inversions.

Ground Boom Applications:

- User must only apply with the release height recommended by the manufacturer, but no more than 4 feet above the ground or crop canopy.
- Applicators are required to select the nozzles and pressure that deliver medium or coarser droplets (ASABE S572).
- **DO NOT** apply when wind speeds exceed 15 miles per hour at the application site.
- **DO NOT** apply during temperature inversions.

Boomless Ground Applications:

- Applicators are required to use a medium or coarser droplet size (ASABE S572) for all applications.
- **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.

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.

Controlling Drop Size – Aircraft

- **Adjust Nozzles** - Follow nozzle manufacturers' recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

Boomless Ground Applications:

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

Handheld Technology Applications

Take precautions to minimize spray drift.

BOOM HEIGHT – Ground Boom

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

RELEASE HEIGHT – Aircraft

Higher release heights increase the potential for spray drift.

SHIELDED SPRAYERS

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

TEMPERATURE AND HUMIDITY

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

TEMPERATURE INVERSIONS

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

WIND

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

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

APPLICATION INSTRUCTIONS

The following tables provide use patterns, rates, minimum spray volumes, preharvest intervals and other precautions, restrictions and comments specific to each crop.

AX SMOC-GA is a foliar active herbicide with residual soil activity. For best results on actively growing weeds, apply to emerged, young, actively growing weeds. Warm temperatures, high humidity and bright sunlight improve the performance of AX SMOC-GA. Necrosis of leaves and young shoots occurs within 2 to 4 days after application under growing conditions.

AX SMOC-GA will have an effect on weeds that are larger than the recommended leaf stage, however, speed of activity and control may be reduced.

Weed control of existing weeds may be reduced if application is made when heavy dew, fog, mist or rain are present or when weeds are under stress due to drought, cool temperatures, or extended periods of cloudiness.

When applying for control of existing lambsquarters and velvetleaf, make applications between dawn and 2 hours before sunset to avoid the possibility of reduced control.

The addition of ammonium sulfate may improve weed control if weeds are under stress.

To maximize weed control, DO NOT cultivate from 5 days before an application to 7 days after an application.

AX SMOC-GA is rainfast 4 hours after application; therefore, rainfall within 4 hours may necessitate retreatment. Consult your local Cooperative Extension Service for guidelines on optimum application timing for this product in your region.

Soil Texture Classifications

In the instructions that follow, application rates may depend on the texture of the soil to which this product is being applied. Use the following information to assign your soil texture to a classification:

Coarse	Sand, Loamy Sand, Sandy Loam
Medium	Loam, Silt Loam, Silt
Fine	Sandy Clay Loam, Silty Clay Loam, Clay Loam, Sandy Clay, Silty Clay, Clay

Rate Reference Table

TOTAL AMOUNT OF AX SMOC-GA	Contains this much S-metolachlor (lb ai)	Contains this much glufosinate (lb ai)
2 fl oz	0.04	0.016
3 fl oz	0.06	0.025
4 fl oz	0.08	0.033
48 fl oz	0.94	0.40
64 fl oz	1.25	0.54

TOTAL AMOUNT OF AX SMOC-GA	Contains this much S-metolachlor (lb ai)	Contains this much glufosinate (lb ai)
80 fl oz	1.56	0.67
96 fl oz (3 quarts)	1.87	0.80
104 fl oz (3.25 quarts)	2.03	0.87
122 fl oz	2.38	1.02
128 fl oz (4 quarts/one gallon)	2.5	1.07
192 fl oz (6 quarts)	3.75	1.60

CROP USE DIRECTIONS

CORN (field, silage) –

Application methods include: pre-plant, pre-emergence, post-emergence

Restrictions

- **DO NOT** apply through any type of irrigation system.
- **DO NOT** apply to frozen ground.
- **DO NOT** apply this product to muck or peat soils
- **DO NOT** apply more than the maximum amount listed per soil type in a single application.
- **DO NOT** make more than 2 applications per year and **DO NOT** apply closer than 7 days apart.
- If used as a pre-plant / pre-emergence application, no post-emergent application may be applied.
- **DO NOT** apply more than 96 fluid ounces per acre per year through any combination of applications.
- **Preharvest Interval (PHI):**
 - 60 days of harvesting corn forage.
 - 70 days of harvesting corn grain or corn fodder.
- **DO NOT** graze or feed forage from treated areas within 30 days of application.

Pre-Plant / Pre-Emergence Applications – apply up to 30 days prior to planting and before crop emergence. See **Rate Reference Table** for active ingredient equivalents.

Soil Type	Organic Matter	Rate/Acre	Precautions and Comments	Additional Restrictions
Coarse Soils	--	64 fl oz/A	Uniform, thorough spray coverage is necessary to achieve consistent weed control.	When applying to coarse soils, DO NOT apply more than two weeks prior to planting.
Medium Soils	--	64 – 80 fl oz/A		
Fine Soils	Less than 3%	64 – 80 fl oz/A	For weeds that have emerged, apply to young, actively growing weeds.	DO NOT apply more than 80 fluid ounces per acre as a pre-plant / pre-emergence application
Fine Soils	Greater than 3%	80 fl oz/A		

If tank mixing this product with another product as a pre-plant or pre-emergence application, the most restrictive combination of rates, restrictions and precautions from both labels must be followed.

Post-Emergent Application

ONLY apply post-emergent to a corn variety that is resistant to glufosinate, otherwise severe crop injury or death to the crop will occur. See **Rate Reference Table** for active ingredient equivalents.

Rate/Acre	Precautions and Comments	Additional Restrictions
48 fl oz/A	<ul style="list-style-type: none"> • Uniform, thorough spray coverage is necessary to achieve consistent weed control. • For weeds that have emerged, apply to young, actively growing weeds. • Apply broadcast from emergence up to 24 inches tall or in the V7 stage of growth. • For corn 24 to 36 inches tall, only apply using ground application and nozzles and avoid spraying into the whorl or leaf axils of the corn stalks. • Must be applied with ammonium sulfate (AMS). • A second post-emergent application may be needed to control weeds that have not yet emerged at time of application. • Severe injury or death may result if this product contacts the foliage or stems of corn not labeled as LibertyLink or glufosinate resistant. 	<ul style="list-style-type: none"> • DO NOT apply more than 2 post-emergent applications, at least 10 days apart. • DO NOT use nitrogen solutions as spray carriers. A silicone based anti-foam agent may be added if needed. • DO NOT apply if corn shows injury from environmental stress or prior to herbicide application.

COTTON

Application methods include: pre-plant, pre-emergence, post-emergence

Restrictions

- **DO NOT** apply through any type of irrigation system.
- **DO NOT** apply to cotton in Gaines County, Texas.
- **DO NOT** apply post-emergent to cotton in Florida, South of Tampa (Florida Route 60), or in Hawaii, except for test plots or breeding nurseries.
- **DO NOT** apply to sandy or loamy sand soils.
- **DO NOT** apply to Taloka silt loam.
- **DO NOT** apply to frozen ground.
- **DO NOT** apply where water may pond over the application site.
- **DO NOT** apply more than the maximum amount listed per soil type in any single application.
- **DO NOT** make more than 3 applications per year and **DO NOT** apply closer than 7 days apart.
- **DO NOT** apply more than 96 fluid ounces per acre per year on coarse soils, through any combination of uses.
- **DO NOT** apply more than 128 fluid ounces per acre per year on medium or fine soils, through any combination of uses.
- **Preharvest Interval (PHI):**
 - 100 days of harvest for post-emergent over-the-top applications.
 - 80 days of harvest for post-emergent soil directed applications.
- **DO NOT** graze or feed forage or fodder to livestock from cotton.

Pre-Plant / Pre-Emergence Applications – apply before crop emergence.

See **Rate Reference Table** for active ingredient equivalents.

Soil Type	Rate/Acre	Precautions and Comments
Coarse Soils	48 fl oz/A	<ul style="list-style-type: none"> • Uniform, thorough spray coverage is necessary to achieve consistent weed control. • For weeds that have emerged, apply to young, actively growing weeds. Avoid broadcast applications to cotton planted in furrows more than 2 inches deep to avoid possible damage due to concentration of product in the seed furrow.
Medium and Fine Soils	64 fl oz/A	

If tank mixing this product with another product as a pre-plant or pre-emergence application, the most restrictive combination of rates, restrictions and precautions from both labels must be followed.

Post-Emergent Application - Cotton variety that is resistant to glufosinate

See **Rate Reference Table** for active ingredient equivalents.

Rate/Acre	Precautions and Comments	Additional Restrictions
64 fl oz/A	<ul style="list-style-type: none"> • Uniform, thorough spray coverage is necessary to achieve consistent weed control. • For weeds that have emerged, apply to young, actively growing weeds. • Apply from crop emergence to early bloom stage. • Avoid broadcast applications to cotton planted in furrows more than 2 inches deep to avoid possible damage due to concentration of product in the seed furrow. • A second post-emergent application may be needed to control weeds that have not yet emerged at time of application. • Severe injury or death may result if this product contacts the foliage or stems of cotton not labeled as LibertyLink or glufosinate resistant. • When applying to non-glufosinate cotton, a hooded sprayer must be used. Please refer to Post-Emergent Application - Non-glufosinate resistant cotton varieties section for additional information. • This product is tank mix compatible post-emergent with Prometryn (post-emergence directed only); Fluometuron; MSMA that is not part of a premix; Glyphosate only on crops that are both glyphosate resistant AND glufosinate resistant. Using Fluometuron after using a systemic insecticide at planting may cause crop injury. Refer to specific product labels for labeled use rates, precautions and restrictions. 	<ul style="list-style-type: none"> • If multiple applications are made post-emergent, apply at least 10 days apart. • DO NOT apply post-emergent with fluid fertilizer, other adjuvants, oils, surfactants or products not listed as tank mix compatible.

Post-Emergent Application – Non-glufosinate resistant cotton varieties

Application of AX SMOC-GA to cotton varieties not labeled as glufosinate resistant requires the use of hooded spray equipment designed to minimize exposure of the spray to the cotton stand. A hooded sprayer directs the spray onto weeds, while shielding the cotton stand from contact. Use nozzles that provide uniform coverage within the treated area. Keep hoods on these sprayers adjusted to protect desirable vegetation. Extreme care must be exercised to avoid exposure of the desirable vegetation to the spray.

With a hooded sprayer, the spray pattern is completely enclosed on the top and all 4 sides by a hood. This equipment must be set up and operated in a manner that avoids bouncing or raising the hoods off the ground in any way. The spray hoods must be operated on the ground or skimming across the ground. Tractor speed must be adjusted to avoid bouncing of the spray hoods. Avoid operation on rough or sloping ground where the spray hoods might be raised off the ground as this may cause spray particles to escape and come into contact with the cotton, causing damage or destruction of the crop.

Herbicide rates and spray volume instructions are presented as broadcast equivalents and must be reduced in proportion to the area actually treated. Use the following formulas to calculate the correct rate and volume per planted (field) acre:

$$\frac{\text{Band width in inches}}{\text{Row width in inches}} \times \text{Broadcast RATE per acre} = \text{Amount of banded product needed per acre}$$

$$\frac{\text{Band width in inches}}{\text{Row width in inches}} \times \text{Broadcast spray VOLUME per acre} = \text{Banded spray volume needed per acre}$$

SOYBEAN

Application methods include: pre-plant, pre-emergence, post-emergence

Restrictions

- **DO NOT** apply through any type of irrigation system.
- **DO NOT** apply to frozen ground.
- **DO NOT** apply more than the maximum amount listed per soil type in any single application.
- **DO NOT** make more than 2 applications per year and **DO NOT** apply closer than 5 days apart.
- **DO NOT** apply more than 64 fluid ounces per acre post-emergence.
- **DO NOT** apply more than 122 fluid ounces per acre per year through any combination of applications.
- **Preharvest Interval (PHI):** 90 days of harvest.
- **DO NOT** graze or feed treated forage, hay, or straw.
- **DO NOT** graze or feed treated forage or hay from soybeans to livestock after a post-emergent application.

Pre-Plant / Pre-Emergence Applications – apply up to 30 days prior to planting and before crop emergence.

See **Rate Reference Table** for active ingredient equivalents.

Soil Type	Organic Matter	Rate/Acre	Precautions and Comments	Additional Restrictions
Coarse Soils	--	64 fl oz/A	<ul style="list-style-type: none"> • Uniform, thorough spray coverage is necessary to achieve consistent weed control. • For weeds that have emerged, apply to young, actively growing weeds. 	<ul style="list-style-type: none"> • When applying to coarse soils, DO NOT apply more than two weeks prior to planting.
Medium Soils	--	64 – 80 fl oz/A		
Fine Soils	Less than 3%	64 – 80 fl oz/A		
Fine Soils	Greater than 3%	80 fl oz/A		

If tank mixing this product with another product as a pre-plant or pre-emergence application, the most restrictive combination of rates, restrictions and precautions from both labels must be followed.

Post-Emergent Application – **ONLY** apply post-emergent to a soybean variety that is resistant to **glufosinate**, otherwise severe crop injury or death to the crop will occur.

See **Rate Reference Table** for active ingredient equivalents.

Rate/Acre	Precautions and Comments	Additional Restrictions
64 fl oz/A	<ul style="list-style-type: none"> • Uniform, thorough spray coverage is necessary to achieve consistent weed control. • Make sequential applications at least 5 to 7 days apart. 	<ul style="list-style-type: none"> • DO NOT use nitrogen solutions as spray carriers. • DO NOT apply if soybeans shows injury from

Rate/Acre	Precautions and Comments	Additional Restrictions
	<ul style="list-style-type: none"> • For weeds that have emerged, apply to young, actively growing weeds. • Apply from crop emergence up to but not including bloom stage. • The use of COC or UAN may cause temporary injury to the crop. • A second post-emergent application may be needed to control weeds that have not yet emerged at time of application. • Severe plant injury or plant death may result if this product contacts the foliage or stems of soybeans not labeled as glufosinate resistant. 	<p>environmental stress or prior to herbicide application.</p> <ul style="list-style-type: none"> • Preharvest Interval (PHI): 90 days of harvest.

NONCROP USES

When applied as specified on this label, AX SMOC-GA controls annual and perennial weeds and yellow nutsedge. Refer to the Application Instructions section of this labeling for rates and a list of weeds controlled. Applications may be made on a broadcast, banded or spot treatment basis depending on the situation. Avoid direct spray or drift to desirable vegetation. Regrowth may occur due to the weed stage of growth at application, low use rate, or environmental conditions. Repeat treatments may be necessary to control plants generating from underground parts or seed.

WHERE TO APPLY

Landscape Areas

AX SMOC-GA may be used for trimming and around edges of landscape areas including: around individual trees and shrubs, landscape beds, foundations, fences, driveways, paths, and parking areas; also on golf courses along cart paths, around sign and light posts, and around sand traps. If spraying in areas adjacent to desirable plants, use a shield made of cardboard, plywood, or sheet metal while spraying to help prevent spray from contacting foliage of desirable plants. Refer to the **Noncrop Application Directions** section on this label for appropriate application rates to control specific weeds.

Recreational and Public Areas

When applied as a spot or directed spray application, this product controls annual and perennial weeds listed on this label in areas including: airports, commercial plants, storage and lumber yards, educational facilities, fence lines, ditch banks, dry ditches, schools, parking lots, tank farms, pumping stations, parks, and other public areas and nonfood crop areas. Refer to the **Noncrop Application Directions** section on this labeling for appropriate application rates to control specific weeds.

Dormant Bermudagrass

AX SMOC-GA may be used to control winter annual weeds in well-established ornamental dormant hybrid or common Bermudagrass. Apply only when the turf is fully dormant and prior to spring green-up or severe turfgrass injury or delayed green-up may occur. For best results, apply this product at a rate of 3 to 6 quarts per acre after most weeds have germinated and are in an early growth stage. Refer to the Weeds Controlled section of this label for selecting rates. Applications of AX SMOC-GA may also be used to suppress or control target biennial or perennial weeds. Avoid high volume and spot applications where spray volume exceeds 80 gallons per acre or injury or delayed green-up may occur.

Restrictions

- **DO NOT** apply more than 6 quarts per acre per year for this use.
- **DO NOT** make more than one application per year.

Ornamentals

When applied as specified on this label, this product may be used for the control of undesired vegetation in site preparation prior to planting, around shade and greenhouses, and as a directed spray around containers and field-grown established ornamentals

Restrictions

- **DO NOT** apply directly to or allow drift to contact desirable green tissue or green, thin, or uncalloused bark of desirable vegetation or injury may result.
- **DO NOT** apply this product as an over-the-top broadcast spray in ornamentals.

APPLICATION TIMING

AX SMOC-GA can be applied as a non-selective herbicide to actively growing weeds. Weed control may be reduced when applications are made to weeds under stress due to drought or cool temperatures. Weeds under stress or in dense populations will require application of the highest rate specified. Refer to the **Noncrop Application Directions** on this label.

MIXING INSTRUCTIONS

AX SMOC-GA alone: AX SMOC-GA must be mixed with water to make a finished spray solution. Fill the spray tank 1/2 to 3/4 full with water, start agitation, add the appropriate amount of this product then add remaining water to fill tank. Agitate continuously while mixing and applying to maintain a uniform spray mixture.

Precautions

- AX SMOC-GA is rainfast in a minimum of one-half hour and an average of 4 hours after application depending upon weed species, environmental conditions, and herbicide application rate.
- Plants may be safely planted into AX SMOC-GA treated areas after spray has dried.

Restrictions (All Uses)

- **DO NOT** apply more than 4 fluid ounces per gallon of water in any single spot application.
- **DO NOT** apply more than 6 quarts per acre in any single broadcast application.
- **DO NOT** apply this product through an irrigation system.
- **DO NOT** use within greenhouses or other enclosed structures.
- **DO NOT** apply directly to or allow drift to contact desirable green tissue or green, thin, or uncalloused bark of desirable vegetation.
- **DO NOT** allow grazing of vegetation treated with this product.

NONCROP APPLICATION DIRECTIONS

See **Rate Reference Table** for active ingredient equivalents.

Spot or Directed Applications

This product may be used as a spot or directed spray application. Mix 2 to 4 fluid ounces AX SMOC-GA per gallon of water depending upon the weed and stage of growth, applying the lower rate when weeds are less than 6 inches in height or diameter, and the higher rate when weed height or diameter is 6 inches or greater. Spray undesirable vegetation foliage on a spray-to-wet basis using backpack, pump-up, or hydraulic sprayer. **DO NOT** apply beyond runoff. Ensure equal and total coverage. Use a coarse spray. **DO NOT** spray during windy conditions. Thoroughly clean the sprayer following use.

Broadcast or Boom Applications

Apply 2 to 6 quarts per acre depending upon the weed and stage of growth, applying the lower rate when weeds are less than 8 inches in height or diameter, and the higher rate when weed height or diameter is 8 inches or greater. Use a minimum of 40 gallons of water per acre with a minimum of 30-psi spray pressure.

Aerial Applications

Apply as a foliar treatment using a minimum of 5 gallons of water per acre to ensure thorough coverage. **DO NOT** apply when winds are gusty or under conditions which favor drift on to desirable vegetation. Applications under conditions which cause drift of this product will result in damage to any vegetation contacted. Drift control additives may be used. If a drift control additive is used, observe and follow all directions and precautions as specified on the additive label.

Tank Mixes for Noncrop Uses

AX SMOC-GA is compatible in tank mixes with many other herbicides including non-selective herbicides. 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.

A compatibility test must be conducted with any potential tank mix partner with AX SMOC-GA, except with any one of those listed above. Using a clear glass quart jar, conduct the test as described below:

1. Fill the jar three-quarters full with water.
2. Add the appropriate amount of herbicide in the following order: (a) dry flowable, (b) wettable powder, (c) aqueous suspensions, (d) flowables, (e) liquids and (f) solutions and emulsifiable or liquid concentrates. Shake or gently stir jar after each addition to thoroughly mix.
3. After adding all ingredients, let the mixture stand for 15 minutes and then look for separation, large flakes, precipitates, gels, and heavy oily film on the jar or other signs of incompatibility.
4. If the compatibility test shows signs of incompatibility, **DO NOT** tank mix the product tested with AX SMOC-GA.

Weeds Controlled by AX SMOC-GA

Broadleaf Weeds	
Bindweed	Pennycress
Buffalobur	Pigweed
Burdock	Plantain
Carpetgrass	Purslane
Chickweed	Ragweed
Clover	Rocket, London
Cocklebur, common	Shepherdspurse
Dandelion	Smartweed
Dogbane (hemp)	Sowthistle, annual
Field gromwell	Spurge, leafy
Filaree	Tansy mustard
Fleabane	Thistle, Canada
Florida pusley	Thistle, musk
Galinsoga	Thistle, Russian
Goldenrod	Velvetleaf
Horsetail	Vervain
Jimsonweed	Virginia copperleaf
Kochia	Heath aster, white
Lambsquarters	Wild buckwheat
Lettuce, prickly	Wild mustard
Malva	Wild rose
Marestail	Wild turnip
Mugwort	Woodsorrel
Nettle	Rocket, yellow
Nightshade	
Grasses and Sedges	
Bluegrass, annual	Johnsongrass (rhizome)
Bahiagrass	Lovegrass
Barley	Nutsedge
Barnyardgrass	Panicum, fall
Bermudagrass	Paragrass
Bluegrass, Kentucky	Quackgrass
Bromegrass, downy	Red rice
Bromegrass, smooth	Ryegrass

Carpetgrass	Sandbur
Crabgrass	Shattercane
Crowfootgrass	Signalgrass
Cupgrass	Smallflower Alexandergrass
Dallisgrass	Stinkgrass
Doveweed	Torpedograss
Fescue	Vaseygrass
Foxtail millet	Wheat
Foxtail, giant	Wild oat
Foxtail, green	Windgrass
Foxtail, yellow	Witchgrass
Guineagrass	

Notes on Use:

1. Use higher rates within the specified rate range for plant sizes listed when vegetation cover is dense or when weeds are growing under stressed conditions such as drought or when average temperatures are below
2. 50°F.
3. The addition of 8.5 to 17 pounds of ammonium sulfate (spray grade) per 100 gallons of water (1 to 2% by weight) or 2 to 4 pounds of ammonium sulfate per acre may improve the level of weed control.

STORAGE AND DISPOSAL

DO NOT contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: DO NOT use or store near heat or open flame. Keep the container tightly closed and dry in a cool, well-ventilated place, not exceeding 125°F. If storage temperature for bulk product is below 32°F, **DO NOT** pump the material until its temperature exceeds 32° F. Protect against direct sunlight.

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:

[Rigid, Non-refillable containers small enough to shake (i.e., with capacities equal to or less than 5 gallons)]

Non-refillable container. **DO NOT** reuse or refill this container. Triple rinse container promptly after emptying. **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Once container is rinsed, then offer for recycling if available or reconditioning if appropriate; or puncture and dispose of in a sanitary landfill, or by incineration; or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

[Rigid, Non-refillable containers (i.e., with capacities greater than 5 gallons)] triple rinse [or pressure rinse] as follows:

Triple rinse: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container back on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use and disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning if available, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. **DO NOT** cut or weld metal containers. Pressure rinse: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after flow begins to drip. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

[All refillable container types (containers with capacities greater than 50 lbs)]

Refillable container. Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Cleaning before refilling is the responsibility of the refiller. This is a sealed returnable container to be used only for this product. When this container is empty, it must not be opened, cleaned, or discarded. Empty containers must be returned to the original purchase location.

[Bottom discharge Intermediate Bulk Container (IBC) (containers with capacities greater than 50 lbs)]

Refillable container. Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Cleaning before refilling is the responsibility of the refiller. Pressure rinsing the container before final disposal is the responsibility of the person disposing of the container. Empty the remaining contents from the Intermediate Bulk container (IBC) into application equipment or mix tank. Raise the bottom of the IBC by 1.5 inch on the side which is opposite of the bottom discharge valve to promote more complete product removal. Completely remove the top lid of the IBC. Use water pressurized to at least 40 PSI to rinse all interior portions. Continuously pump or drain rinsate into application equipment or rinsate collection system while pressure rinsing. Continue pressure rinsing for 2 minutes or until rinsate becomes clear. Replace the lid and close bottom valve. Contact your Ag retailer for container return, disposal, and recycling directions.

SEED DISPOSAL: To dispose of out-of-date or otherwise unmarketable seed from plants, which have been treated with this product, broadcast and lightly incorporate seed into field soils using disc or other suitable implement. Any resulting crop may be destroyed by chemical or mechanical means. Alternatively, seed may be destroyed by deep burial, incineration or landfill disposal.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of AXION AG PRODUCTS, LLC or Seller, TO THE EXTENT CONSISTENT WITH APPLICABLE LAW All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold AXION AG PRODUCTS, LLC and Seller harmless for any claims relating to such factors.

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