

42750-50

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

SEP 20 2004

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Mr. Morris Gaskins
Albaugh, Inc.
P.O. Box 2127
Valdosta, GA 31604-2127

Dear Mr. Gaskins:

Subject: Brox- at
EPA Registration Number 42750-50
Application dated August 27, 2004
Amended label per Atrazine MOA

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act as amended is acceptable, provided you make the following changes before you release the product for shipment.

- 1) Add the following statement before the ENGINEERING CONTROLS STATEMENTS: "To reduce exposure to residues, wash the spray rig, tractor, and all other equipment used to handle or apply this product with water daily or before using the equipment for any other purpose" per the bromoxynil RED.
- 2) It is recommended that you add the following FIRST AID information after IF IN EYES:
IF ON SKIN OR CLOTHING:
 - Take off contaminated clothing
 - Rinse skin immediately with plenty of water for 15-20 minutes
 - Call a poison control center or doctor for treatment adviceIF INHALED:
 - Move person to fresh air.
 - IF person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
 - Call a poison control center or doctor for treatment advice.

3) Remove all statements in the PPE section (not including the statements “follow manufacturer’s.....”) and replace with the following statements from the Atrazine IRED:

“Some materials that are chemical-resistant to this product are (registrant inserts correct chemical-resistant material). If you want more options, follow the instructions for category (registrant inserts A,B,C,D,E,F,G or H) on an EPA chemical-resistance category selection chart.

Mixers, loaders, applicators, flaggers, and other handlers must wear:

- long sleeved shirt and long pants
- Chemical resistant gloves such as (registrant inserts correct chemical-resistant materials)
- shoes plus socks, and
- Chemical-resistant apron, when mixing/loading, cleaning up spills, or cleaning equipment, or otherwise exposed to the concentrate.

See engineering controls for additional requirements.”

4) Under the section ENGINEERING CONTROLS STATEMENTS, remove “and inhalation”, change the statement under #1 to “wear the personal protective equipment required for mixers and loaders”, and remove “and dust mist respirator” from under #3.

5) Under the section ENGINEERING CONTROLS STATEMENTS, remove all the text “In addition, such applicators and flaggers must.....to prevent contamination of the inside of the cab.”

6) Change the first sentence of the ENVIRONMENTAL HAZARDS to “This pesticide is toxic to aquatic invertebrates.” Also, add “directly” after “Do not apply” of the second sentence.

7) Add the statement “Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas.” after the statement “Do not apply when weather conditions favor drift from treated areas.” in the ENVIRONMENTAL HAZARDS section.

8) Remove the statement “States may have in effect additional requirements regarding well-head setbacks and operational area containment.” in the ENVIRONMENTAL HAZARDS section.

9) Change the statement “To ensure protection of surface water from runoff through standpipes and tile-outlets in terraced fields, one of the following options must be used:” to “One of the following restriction must be used in applying atrazine to tile-outletted fields containing standpipes:” in the ENVIRONMENTAL HAZARDS section.

10) On page 7, move the statement “Do not apply with backpack or hand-held application equipment” from under AERIAL APPLICATION section to under GROUND APPLICATION section.

11) On page 8, under Swath Adjustment, change “downward” to “downwind.”

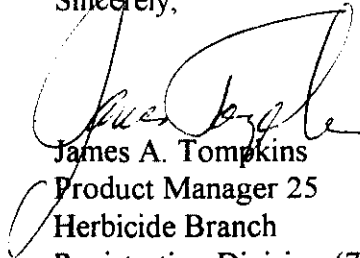
12) Change the statement on page 4 from "When tank-mixing or sequentially applying atrazine or products containing atrazine to corn or sorghum, the total pounds of atrazine applied (lbs a.i./A) must not exceed 2.5 pounds per acre per year." to "When tank mixing or sequentially applying atrazine or products containing atrazine to corn or sorghum, do not exceed an application rate of 2.0 pounds active ingredient of atrazine for any single application, and the total pounds of atrazine applied (lb a.i. per acre) must not exceed 2.5 pounds active ingredient per acre per year."

13) On page 14, under "Atrazine Rate Restrictions- Preplant/Preemergence Use" add "(as defined by the Natural Resource Conservation Service)" after "highly erodible soils."

Submit one (1) copy of final printed labeling incorporating the above changes before you release the products for shipment. Amended labeling will supercede all previously accepted ones. A stamped copy of labeling is enclosed for your records.

If you have any questions, please contact Hope Johnson at 703-305-5410.

Sincerely,



James A. Tompkins
Product Manager 25
Herbicide Branch
Registration Division (7505C)

EDITOR'S NOTE: Draft label for Atrazine MOA

RESTRICTED USE PESTICIDE
(GROUND AND SURFACE WATER CONCERNS)

FOR RETAIL SALE TO AND USE ONLY BY CERTIFIED APPLICATORS OR PERSONS DIRECTLY UNDER THEIR SUPERVISION AND ONLY FOR THOSE USES COVERED BY THE CERTIFIED APPLICATOR'S CERTIFICATION.

THIS PRODUCT IS A RESTRICTED-USE HERBICIDE DUE TO GROUND AND SURFACE WATER CONCERNS. USERS MUST READ AND FOLLOW ALL PRECAUTIONARY STATEMENTS AND INSTRUCTIONS IN ORDER TO MINIMIZE POTENTIAL FOR ATRAZINE TO REACH GROUND AND SURFACE WATER.

BROX™-At Herbicide
 Postemergent herbicide for control of certain broadleaf weeds in corn and sorghum

ACTIVE INGREDIENTS:

Octanoic acid ester of bromoxynil* (3,5-dibromo-4-hydroxybenzotrile)	15.74%
Atrazine** (2-chloro-4-ethylamino-6-isopropylamino-s-triazine)	21.62%
OTHER INGREDIENTS***:	62.64%
TOTAL	100.00%

*Product contains bromoxynil octanoate equivalent to 10.81% of bromoxynil or 1.0 pound of bromoxynil per gallon.

**Product contains 2.0 pounds of atrazine per gallon.

*** Contains petroleum distillates.

ACCEPTED
 with **COMMENTS**
 in EPA Letter Dated

EPA Reg. No. 42750-50

SEP 20 2004

EPA Est. No.

KEEP OUT OF REACH OF CHILDREN

CAUTION

SHAKE WELL BEFORE USING

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

42750-50

FIRST AID

IF SWALLOWED:	<ul style="list-style-type: none"> • Immediately call a poison control center or doctor. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give any liquid to the person. • Do not give anything by mouth to an unconscious person.
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.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.

NOTE TO PHYSICIAN

Contains petroleum distillate – vomiting may cause aspiration pneumonia.

See inside booklet for additional precautionary statements.

MANUFACTURED BY:

Albaugh, Inc.
Ankeny, Iowa 50021

Net Contents

_____ Gals.
 _____ Liters

FOR CHEMICAL SPILL, LEAK, FIRE OR EXPOSURE, CALL CHEMTREC (800) 424-9300.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are barrier laminate > 14 mils, nitrile rubber > 14 mils, butyl rubber > 14 mils, or viton > 14 mils. If you want more options, follow the instructions for Category F on an EPA chemical-resistance category selection chart.

Mixers, loaders, applicators and other handlers not using Engineering Controls must wear:

1. Coveralls over long-sleeved shirt and long pants,
2. Chemical-resistant gloves such as barrier laminate > 14 mils, nitrile rubber > 14 mils, butyl rubber > 14 mils, or viton > 14 mils.
3. Chemical-resistant footwear plus socks.
4. Chemical resistant headgear (if overhead exposure)
5. A NIOSH approved dust mist filtering respirator with any N, R, P or HE filter
6. A chemical resistant apron when mixing/loading, cleaning up spills, or cleaning equipment, or otherwise exposed to the concentrate.

Mixers, loaders, applicators and other handlers using Engineering Controls must wear:

1. long-sleeved shirt and long pants,
2. chemical-resistant gloves and aprons for mixers and loaders
3. Shoes plus socks

See Engineering Controls for additional requirements.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

ENGINEERING CONTROLS STATEMENTS

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

Mixers and loaders supporting aerial applications at a rate greater than 3 lbs. active ingredient per acre must use a closed system that meets the requirements for dermal and inhalation protection listed in the WPS for agricultural pesticides [40 CFR 170.240(d)(4) and must:

1. Wear the PPE required above for handlers using engineering controls
2. Wear protective eyewear if the system operates under pressure, and
3. Be provided and have immediately available for use in an emergency, such as a spill or equipment breakdown: coveralls, chemical resistant footwear and dust mist respirator.

Pilots must use an enclosed cockpit in a manner that is consistent with the WPS for Agricultural Pesticides [40 CFR 170.240(d)(6)]. Pilots must wear the PPE required on this labeling for applicators, however, they need not wear chemical-resistant gloves when using an enclosed cockpit.

Fluggers supporting aerial applications must use an enclosed cab that meets the definition on the WPS Standard for Agricultural Pesticides [40 CFR 170.240(d)(5)] for dermal protection. In addition, such applicators and fluggers must:

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1. Wear the PPE required above for handlers using engineering controls
2. Either wear the type of respirator specified in the PPE above or use an enclosed cab that provides inhalation protection equivalent to a dust mist respirator
3. Be provided and must have immediately available for use in an emergency when they must exit the cab in the treated area: coveralls, chemical resistant gloves, chemical resistant footwear, chemical resistant headgear if overhead exposure, and a dust mist respirator if using an enclosed cab that provides inhalation protection.
4. Take off any PPE that was worn in the treated area before reentering the cab
5. Store all such PPE in a chemical resistant container, such as a plastic bag, to prevent contamination of the inside of the cab.

USER SAFETY RECOMMENDATIONS

Users should:

1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
2. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
3. 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

This pesticide is toxic to wildlife, invertebrates and fish. Do not apply to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from target areas. Do not contaminate water when disposing of equipment washwaters.

Atrazine can travel (seep or leach) through soil and can enter ground water which may be used as drinking water. Atrazine has been found in ground water. Users are advised not to apply atrazine to sand and loamy sand soils where the water table (ground water) is close to the surface and where these soils are very permeable, i.e., well-drained. Your local agricultural agencies can provide further information on the type of soil in your area and the location of ground water.

This product must not be mixed or loaded within 50 ft. of intermittent streams and rivers, natural or impounded lakes and reservoirs. This product may not be applied aerially or by ground within 66 ft of the points where field surface water runoff enters perennial or intermittent streams and rivers or within 200 ft around natural or impounded lakes and reservoirs. If this product is applied to highly erodible land, the 66-ft. buffer or setback from runoff entry points must be planted to crop, seeded with grass, or other suitable crop.

This product must not be mixed/loaded, or used within 50 ft. of all wells including abandoned wells, drainage wells, and sink holes. Operations that involve mixing, loading, rinsing, or washing of this product into or from pesticide handling or application equipment or containers within 50 ft. of any well are prohibited unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spill or equipment leaks, container or equipment rinse or wash-water, and rain-water that may fall on the pad. Surface water shall not be allowed to either flow over or from the pad, which means the pad must be self-contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain at a minimum 110% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment capacity of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above-specified minimum containment capacities do not apply to vehicles when delivering pesticide shipments to the mixing/loading sites.

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States may have in effect additional requirements regarding well-head setbacks and operational area containment. Additional state imposed requirements regarding well-head setbacks and operational area containment must be observed.

To ensure protection of surface water from runoff through standpipes and tile-outlets in terraced fields, one of the following options must be used:

1. Do not apply this product within 66 feet of standpipes in tile-outletted fields.
2. Apply this product to the entire tile-outletted field and immediately incorporate it to a depth of 2-3 inches in the entire tile-outletted field.
3. Apply this product to the entire tile-outletted field under a no-till practice only when high crop residue management practices are used. High crop residue management practice is described as a crop management practice where little or no crop residue is removed from the field during or after crop harvest.

PHYSICAL AND CHEMICAL HAZARDS

Do not use or store 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.

When tank-mixing or sequentially applying atrazine or products containing atrazine to corn or sorghum, the total pounds of atrazine (lbs ai/A) must not exceed the specific seasonal rate limits from preemergence, or postemergence, or preemergence + postemergence applications as noted in the use limitation table in the use directions.

ANY USE OF THIS PRODUCT IN AN AREA WHERE USE IS PROHIBITED IS A VIOLATION OF FEDERAL LAW. Before using this product, you must consult the Atrazine Watershed Information Center (AWIC) to determine whether the use of this product is prohibited in your watershed. AWIC can be accessed through [www.atrazine-watershed.info], or [1-866-365-3014]. If use of this product is prohibited in your watershed, you may return this product to your point of purchase or contact Albaugh for a refund.

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

When tank-mixing or sequentially apply atrazine or products containing atrazine to corn or sorghum, the total pounds of atrazine applied (lbs ai/A) must not exceed 2.5 pounds active ingredient per year.

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 intervals. 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.

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

1. Coveralls,
2. Chemical-resistant gloves Category F, such as nitrile rubber > 14 mils, viton > 14 mils or barrier laminate > 14 mils,
3. Shoes plus socks and
4. Protective eyewear.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Do not store near fertilizers or seeds. Store at temperatures above 3° F. If exposed to freezing temperatures, store at temperatures above 55° F for 24 hours or until completely thawed. Shake well before using.

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

CONTAINER DISPOSAL:

Plastic: Triple rinse (or equivalent). Then puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Metal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities.

Returnable-Refillable Containers:

This material may be repackaged in 15 or 30 gallon returnable-refillable containers by a registered establishment. After use, return the container to the point of purchase or designated locations. This container must only be refilled with BROX™-At. Do not reuse the container for any other purpose. Prior to refilling, inspect thoroughly for damage such as cracks, punctures, abrasions and damaged or worn out threads on closure devices. Do not refill or transport damaged or leaking containers. Check for leaks after refilling and before transportation. If the container is not being refilled, return it to the point of purchase.

GENERAL INFORMATION

BROX™-At contains the equivalent of 1 pound per gallon of octanoic acid ester of bromoxynil and 2 lbs. per gal. of atrazine.

BROX™-At is a selective postemergence herbicide for control of important broadleaf weeds infesting field corn, popcorn, and sorghum. Optimum weed control is obtained when BROX™-At is applied to actively growing weed seedlings. BROX™-At is primarily a contact herbicide, therefore thorough coverage of the weed seedlings is essential for optimum control. BROX™-At has limited residual activity. However, dependent on weather conditions following application, subsequent flushes of weeds may not be controlled by the initial treatment.

Occasional transitory leaf burn may occur. The temporary leaf burn is similar to that seen with liquid fertilizer. Because the activity of BROX™-At is not systemic, recovery of the crop is generally rapid with no lasting effect.

MIXING, LOADING AND HANDLING INSTRUCTIONS

2.5 Gallon Containers

It is strongly recommended that special care be taken in mixing and loading this product. Hands should be placed on the container in such a way as to avoid possible drip or splash.

30 Gallon and Bulk Containers

If you will handle a total of 120 gallons or more of this product per day, you should use a mechanical transfer system for all mixing and loading operations. If this product is packaged in a 30 gallon drum, you should use a mechanical transfer system which terminates in a drip-free hard coupling which may be used only with a spray or mix tank which has been fitted with a compatible coupling. If you do not presently own

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or have access to a mechanical transfer system with this type of coupling, contact your dealer for information on how to obtain such a system or to modify your present system. When using a mechanical transfer system, do not remove or disconnect the pump or probe from the container until the container has been emptied and rinsed. The pump or probe system should be used to rinse the empty container and to transfer the rinsate directly to the mixing or spray tank.

BROX™-At Alone:

Fill the spray tank 1/2 to 3/4 full with clean water. Begin agitation and add the recommended amount of BROX™-At. Add water to the spray tank to the desired level. Maintain sufficient agitation to ensure a uniform spray mixture during application.

Tank Mixtures:

BROX™-At can be applied in tank mixture with many other herbicides and insecticides registered for use on approved crops. Refer to the specific crop section for rate recommendations and other restrictions. To apply BROX™-At in mixture with another product, fill the spray tank 1/2 to 3/4 full with clean water and begin agitation. Add the BROX™-At first and mix thoroughly. Add the other product to the tank while maintaining agitation and add water to the spray tank to the desired level. Always mix one product in water thoroughly before adding another product or compatibility problems may occur. Never mix two products together without first mixing in water.

Maintain sufficient agitation while mixing and during application to ensure a uniform spray mixture. If spray mixture is allowed to remain without agitation for short periods of time, be sure to agitate until uniformly mixed before application.

If tank mixing with products other than those listed within each crop section, a compatibility test is recommended to ensure satisfactory spray preparation. To test for compatibility, use a small container and mix a small amount (0.5 to 1 quart) of spray, combining all ingredients in the same ratio as the anticipated use. If any indications of physical incompatibility develop, do not use this mixture for spraying. Indications of incompatibility usually will appear within 5 to 15 minutes after mixing. To ensure maximum crop safety and weed control, follow all cautions and limitations on this label and the labels of products used in the tank mixture with BROX™-At.

SPRAYABLE LIQUID FERTILIZERS AND SPRAY ADDITIVES

BROX™-At can be applied in combination with sprayable liquid fertilizer or spray additives such as surfactants or crop oil concentrate. When tank mixing with liquid fertilizer, always add the fertilizer to the spray tank first and agitate thoroughly before adding BROX™-At.

Always predetermine the compatibility with liquid fertilizer by mixing small proportional quantities in advance. Agitation must be maintained during filling and application operations to ensure that BROX™-At is evenly mixed with the fertilizer.

Caution: Fertilizers and spray additives can increase foliage leaf burn when applied with BROX™-At. Do not apply fertilizers or spray additives with BROX™-At if leaf burn is a major concern due to environmental conditions, crop or variety sensitivity to BROX™-At.

APPLICATION PROCEDURES

BROX™-At can be applied to registered use areas by ground, and aerial application equipment. Do not apply this product through any type of irrigation system.

GROUND APPLICATION

Use a standard herbicide boom sprayer that provides uniform and accurate application. Sprayer should be equipped with screens no finer than 50 mesh in the nozzle tips and in-line strainers.

Select a spray volume and delivery system that will ensure thorough and uniform spray coverage. For optimum spray distribution and thorough coverage use of flat fan nozzles (maximum tip size 8008) with a spray pressure of 40-60 psi are recommended. Other nozzle types and lower spray pressures that produce coarse spray droplets may not provide adequate coverage of the weeds to ensure optimum control. Raindrop® nozzles and flood nozzles are not recommended as weed control with BROX™-At may be reduced.

In general, a spray volume of 10 to 20 gallons per acre (GPA) is recommended for optimum spray coverage. A minimum of 5 GPA with a minimum spray pressure of 50 psi and a maximum ground speed of 10 mph may be used with higher speed, low volume ground application if ground terrain, crop and weed density allow effective spray distribution. When using higher speed equipment, a maximum ground speed of 10 mph is suggested if field conditions cause excessive boom movement during application which results in poor spray coverage. Ground applications made when dry, dusty field conditions exist may provide reduced weed control in wheel track areas. Applications using less than 10 gallons per acre may result in reduced weed control.

When weed infestations are heavy, use of higher spray volumes and spray pressure will be helpful in obtaining uniform weed coverage. When corn or grain sorghum are large enough to interfere with the spray pattern, drop nozzles should be used to obtain uniform weed coverage. If you are unsure of the infestation level or size of crop, consult your local extension service.

Do not apply when winds are gusty or when other conditions favor poor spray coverage and/or off target spray movement.

AERIAL APPLICATION

Aerial application is prohibited within 300 feet of residential areas (e.g., homes, schools, playgrounds, shopping areas, hospitals, etc.).

Do not apply with backpack or hand-held application equipment.

Use orifice discs, cores and nozzle types and arrangements that will provide for optimum spray distribution and maximum coverage. In general, a minimum spray volume of 5 GPA and a maximum pressure of 40 psi are recommended.

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

1. The distance of the outer most nozzles on the boom must not exceed $\frac{3}{4}$ the length of the wingspan or rotor.
2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

Where states have more stringent regulations, they should be observed.

The applicator should be familiar with and take into account the information covered in the Aerial Drift Reduction Advisory Information.

Aerial Drift Reduction Advisory Information

Information on Droplet Size

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger

droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversions).

Controlling Droplet Size

- Volume – Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure – Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- Number of nozzles – Use the minimum number of nozzles that provide uniform coverage.
- Nozzle orientation – Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- Nozzle type – Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

Boom Length

For some use patterns, reducing the effective boom length to less than ¾ of the wingspan or rotor length may further reduce drift without reducing swath width.

Application Height

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

Swath Adjustment

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

Wind

Drift potential is lowest between wind speeds of 2-10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided at wind speeds below 2 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

Temperature and Humidity

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

Temperature Inversions

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by observing 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.

Sensitive Areas

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

CULTIVATION

When properly utilized, timely cultivations may aid overall weed control efforts as well as crop growth. However, cultivation before or during BROX™-At applications may place target weeds under stress, resulting in erratic weed control. Whenever BROX™-At is being utilized in an overall weed control program, plan to postpone any anticipated cultivations until 5-7 days after application to ensure best performance.

GENERAL WEED LIST

Postemergence application of BROX™-At Herbicide will control the following weeds when sprayed in the seedling stage.

MOST SUSCEPTIBLE BROADLEAF WEED SPECIES

- | | |
|--|---|
| Annual Sowthistle (<i>Sonchus oleraceus</i>) | Hairy Nightshade (<i>Solanum sarachoides</i>) |
| Black Nightshade (<i>Solanum nigrum</i>) | Jimsonweed (<i>Datura stramonium</i>) |
| Blue Mustard (<i>Chorispora tenella</i>) | Ladysthumb (<i>Polygonum persicaria</i>) |
| Bristly starbur (<i>Acanthospermum hispidum</i>) | Lanceleaf Sage (<i>Slavia reflexa</i>) |
| Coast Fiddleneck (<i>Amsinckia intermedia</i>) | Pennsylvania Smartweed (<i>Polygonum strumarium</i>) |
| Common Cocklebur (<i>Xanthium strumarium</i>) | Pepperweed spp. (<i>Lepidium</i> spp.) |
| Common Lambsquarters (<i>Chenopodium album</i>) | Shepherdspurse (<i>Capsella bursa-pastoris</i>) |
| Common Tarweed (<i>Hemizonia Congesta</i>) | Silverleaf Nightshade (<i>Solanum elaeagnifolium</i>) |
| Cutleaf Nightshade (<i>Solanum triflorum</i>) | Tartary Buckwheat (<i>Fagopyrum tataricum</i>) |
| Eastern Black Nightshade (<i>Solanum ptycanthum</i>) | Sunflower (<i>Helianthus annus</i>) |
| Field Pennycress (<i>Thlaspi arvense</i>) | Wild Buckwheat (<i>Polygonum convolvulus</i>) |
| Green Smartweed (<i>Polygonum scabrum</i>) | |

SUSCEPTIBLE BROADLEAF WEED SPECIES

- | | |
|---|---|
| Buffalobur (<i>Solanum rostratum</i>) | Pitted Morningglory (<i>Ipomoea lacunosa</i>) |
| Burcucumber (<i>Sicyos angulatus</i>) | Pokeweed (<i>Phytolacca americana</i>) |
| Common Groundsel (<i>Senecio vulgaris</i>) | Prostrate Knotweed (<i>Polygonum aviculare</i>) |
| Common Ragweed (<i>Ambrosia artemisiifolia</i>) | Puncture Vine (<i>tribulus terrestris</i>) |
| Corn Chamomile (<i>Anthemis arvensis</i>) | Redroot Pigweed (<i>Amaranthus retroflexus</i>) |
| Corn Gromwell (<i>Lithospermum arvense</i>) | Russian Thistle (<i>Salsola kali</i>) |
| Cow Cockle (<i>Saponaria vaccaria</i>) | Spiny Pigweed (<i>Amaranthus spinosus</i>) |
| Giant Ragweed (<i>Ambrosia trifida</i>) | Tall Morningglory (<i>Ipomoea purpurea</i>) |
| Hemp Sesbania (<i>Sesbania exaltata</i>) | Tall Waterhemp (<i>Amaranthus tuberculatus</i>) |
| Ivyleaf Moringglory (<i>Ipomoea hederacea</i>) | Tumble Mustard (<i>Sisymbrium altissimum</i>) |
| Knawel (<i>Scleranthus annus</i>) | Velvetleaf (<i>Abutilon theophrasti</i>) |
| Kochia (<i>Kochia scoparia</i>) | Venice Mallow (<i>Hibiscus trionum</i>) |
| London Rocket (<i>Sisymbrium irio</i>) | Wild Mustard (<i>Sinapsis arvensis</i>) |
| Marestail (<i>Conza canadensis</i>) | Wild Radish (<i>Raphanus raphanistrum</i>) |
| Mayweed (<i>Anthemis cotula</i>) | |

WEED SUPPRESSION

Bromoxynil +Atrazine suppresses the growth of Canada thistle (*Cirsium arvense*) by burning down top growth. Regrowth may occur.

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CORN (FIELD AND POP) AND SORGHUM (GRAIN AND FORAGE)

BROX™-At RECOMMENDATIONS

Postemergence application to corn and sorghum must be made before corn and sorghum reaches 12 inches in height.

		APPLICATION TIMING AND SPECIFIC COMMENTS	
PRODUCT	RATE	CROP	WEEDS
Bromoxynil +Atrazine	Preemergence 1 1/2-3 pints/A	Apply to corn or sorghum before planting until just prior to crop emergence.	See Application Rate Table for list weeds and corresponding maximum stage of growth that are controlled by BROX™-At Herbicide at 1 1/2, 2 or 3 pts. per acre.
	1 1/2-2 pints/A	Apply to corn after emergence but before corn is 12 inches tall. Apply to sorghum after the 3 leaf stage but prior to the preboot stage (growth stage 4) or 12 inches in height, whichever comes first.	
	3 pints/A	Apply to corn between the 4 leaf stage but before corn is 12 inches tall. Apply to sorghum after the 4 leaf stage but prior to the preboot stage (growth stage 4) or 12 inches in height, whichever comes first.	

APPLICATION RATE TABLE FOR CORN AND SORGHUM

WEED SPECIES	BROX™-At RATE					
	1 1/2 pints/A		2 pints/A		3 pints/A	
	Maximum Leaf Stage (Inches)	Maximum Weed Height (Inches)	Maximum Leaf Stage (Inches)	Maximum Weed Height (Inches)	Maximum Leaf Stage (Inches)	Maximum Weed Height (Inches)
When determining leaf stage, count all leaves except cotyledonary leaves.						
Black Nightshade (Solanum nigrum)	4	4	6	6	6	6
Buffalobur (Solanum rostratum)	4	4	6	4	6	4
Burcucumber (Sicyos angulatus)	-	-	4	4	4	4
Canada Thistle (Cirsium arvense)	-		8 inch to bud stage		8 inch to bud stage	
Common Cocklebur (Xanthium pensylvanicum)	6	8	8	10	10	12
Common Lambsquarter (Chenopodium album)	-	6	-	10	-	12
Common Ragweed (Ambrosia artemisiifolia)	6	4	8	6	8	6
Eastern Black Nightshade (Solanum ptycanthum)	4	4	6	6	6	6
Entireleaf morningglory (Ipomoea hederacea)	-	-	4	3	4	3
Giant Ragweed (Ambrosia trifida)	4	6	6	8	6	8
Hemp Sesbania (Sesbania exaltata)	4	4	4	4	4	4
Ivyleaf Morningglory (Ipomoea hederacea)	3	3	4	4	4	4

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WEED SPECIES When determining leaf stage, count all leaves except cotyledonary leaves.	BROX™-At RATE					
	1 1/2 pints/A		2 pints/A		3 pints/A	
	Maximum Leaf Stage (Inches)	Maximum Weed Height (Inches)	Maximum Leaf Stage (Inches)	Maximum Weed Height (Inches)	Maximum Leaf Stage (Inches)	Maximum Weed Height (Inches)
Jimsonweed (<i>Datura stramonium</i>)	4	4	6	6	6	6
Kochia (<i>Kochia scoparia</i>)	-	2	-	2	-	4
Ladysthumb (<i>Polygonum persicaria</i>)	4	4	6	6	8	8
Marestail (<i>Conza canadensis</i>)	-	-	-	5	-	5
Palmleaf Morningglory (<i>Ipomoea wrightii</i>)	-	-	4	3	4	3
Pennsylvania Smartweed (<i>Polygonum pensylvanicum</i>)	4	4	6	6	8	8
Pitted Morningglory (<i>Ipomoea lacunosa</i>)	3	3	4	4	4	4
Pokeweed (<i>Phytolacca americana</i>)	4	4	6	6	6	6
Prickly Sida (<i>Sida spinosa</i>)	-	-	4	1	6	2
Puncturevine (<i>Tibulus terrestris</i>)	-	-	-	-	6	-
Purple Morningglory (<i>Ipomoea muricata</i>)	-	-	2	3	2	3
Redroot Pigweed ² (<i>Amaranthus retroflexus</i>)	4	2	6	4	8	6
Small Flower Morningglory (<i>Jacquemontia tamnifolia</i>)	-	-	4	3	4	3
Smooth Pigweed ² (<i>Amaranthus hybridus</i>)	4	2	4	2	6	4
Spiny Pigweed ² (<i>Amaranthus spinosus</i>)	4	2	6	4	8	6
Sunflower (<i>Helianthus annuus</i>)	6	8	8	10	10	12
Tall morningglory (<i>Ipomoea purpurea</i>)	3	3	4	4	4	4
Tall Waterhemp ² (<i>Amaranthus tuberculatus</i>)	4	2	6	4	8	6
Toothed spurge (<i>Euphorbia dentata</i>)	-	-	4	4	4	4
Velvetleaf (<i>Abutilon theophrasti</i>)	4	3	6	5	8	6
Venice mallow (<i>Hibiscus trionum</i>)	4	2	4	2	4	2
Wild Buckwheat (<i>Polygonum convolvulus</i>)	6	8	8	10	10	12
Wild Mustard (<i>Sinapis arvensis</i>)	4	4	4	4	4	4

¹BROX™-At suppresses the growth by burning down of top growth. Regrowth may occur.

²If pigweeds (Amaranthus spp.) present in the field to be treated have been identified as triazine resistant biotypes, use BROX™-At Herbicide only at 3 pints/A. Control of pigweeds in the high plains areas of Texas and Oklahoma may not be satisfactory with BROX™-At Herbicide. Repeat applications may be necessary to achieve satisfactory control in these areas. Applications should be made when pigweeds do not exceed the 4 leaf stage and 2 inches in height.

BROX™-At TANK MIXTURE RECOMMENDATIONS

PRODUCT	RATE	APPLICATION TIMING AND SPECIFIC COMMENTS	
		CROP	WEEDS
BROX™-At + Albaugh Dicamba DMA Salt or Banvel® ¹	1 1/2-2 pints per acre + 1/8-1/4 per acre	Apply to field corn after emergence but before corn is 12" tall. Apply to sorghum between the 3 leaf stage but prior to the preboot stage (growth stage 4) or 12" in height, whichever comes first. Use drop nozzles if crop is taller than 8".	All weeds controlled by BROX™-At at recommended rates of application plus improved control of pigweed. For field bindweed suppression, use 1/4 pint /A of Albaugh Dicamba DMA Salt or Banvel® with BROX™-At.
	3 pints per acre + 1/8-1/4 pint per acre	Apply to field corn between the 4 leaf stage and before corn is 12" tall. Apply to sorghum between the 4 leaf stage but prior to the pre-boot stage (growth stage 4) or 12" in height, whichever comes 1st. Do not apply in the boot stage. Use drop nozzles if crop is taller than 8".	

¹Clarity® may be used at the same rates as Albaugh Dicamba DMA Salt or Banvel® in a tank mixture on corn. These mixtures must be applied before corn exceeds 8 inches in height. Do not use Clarity® in a tank mixture with BROX™-At on sorghum.

PRODUCT	RATE	APPLICATION TIMING AND SPECIFIC COMMENTS	
		CROP	WEEDS
BROX™-At + 2,4-D	1 1/2-2 pints per acre + 1/16-1/4 lb ai per acre	Apply to field corn after emergence but before corn is 12" tall. Use drop nozzles if crop is taller than 8". Apply to sorghum between the 3 leaf stage but prior to the preboot stage (growth stage 4) or 12" in height, whichever comes first. Use drop nozzles if crop is taller than 8".	All weeds controlled by BROX™-At at recommended rates of application plus improved control of devils claw, kochia, field bindweed suppression, and Canada thistle burndown.
	3 pints per acre + 1/16-1/4 lb ai per acre	Apply to field corn between the 4 leaf stage but before the corn is 12" tall. Use drop nozzles if crop is taller than 8". Apply to sorghum after the 4 leaf stage but prior to the preboot stage (growth stage 4) or 12" in height, whichever comes first. Do not apply in the boot stage. Use drop nozzles if crop is taller than 8".	
BROX™-At + Stinger™	1 1/2-2 pints per acre + 1/3-2/3 pints per acre	Apply to field corn after emergence but before corn is 12" tall.	All weeds controlled by BROX™-At at recommended rates of application plus improved Canada thistle burndown. For optimum performance, apply to Canada thistle at least 4" in diameter or height but before bud stage.
	3 pints per acre + 1/3-2/3 pint/acre	Apply to field corn between the 4 leaf stage and before corn is 12" tall.	

PRODUCT	RATE	APPLICATION TIMING AND SPECIFIC COMMENTS	
		CROP	WEEDS
BROX™-At + Accent® + Non-ionic surfactant	1 1/2-2 pints per acre + 2/3 oz per acre + 1 qt. per 100 gals. of water (0.25% v/v)	Apply to field corn after pre-emergence or postemergence but before corn is 12" tall. Do not apply this tank mix to sorghum.	All broadleaf weeds controlled by BROX™-At plus grasses and broadleaves controlled by Accent®. For optimum weed control, treat when broadleaves and grasses are in the recommended growth stage or size. Follow the weed size guideline on the BROX™-At or Accent® labels that are least restrictive.
	3 pints per acre + 2/3 oz. per acre + 1 qt/100 gal. of water (0.25% v/v)	Apply to field corn between the 4 leaf stage of crop growth but before corn is 12" tall. Do not apply this tank mix to sorghum.	

Restrictions and Precautions: Corn (Field and Pop) and Sorghum (Grain and Forage)

- Postemergence applications of BROX™-At will not adequately control grasses. Therefore, it is recommended that a suitable grass control program be used to provide any required grass control.
- Pre-Harvest Interval (PHI) for field corn forage use is 60 days.
- Pre-Harvest Interval (PHI) for sorghum forage use after preemergent use is 60 days.
- Pre-Harvest Interval (PHI) for sorghum forage use after postemergent use is 45 days.
- Addition of a spray additive or mixture with liquid fertilizers may cause excessive crop leaf burn.

- Do not use BROX™-At on sorghum grown in sandy or loamy sand soils as excessive crop injury may occur.
- Seed corn producers should consult the respective seed corn company regarding tolerance of seed production inbred lines to BROX™-At.
- Do not cut crop for feed or graze within 45 days after application.
- A second application of BROX™-At may be applied if a new flush of weeds occurs following the first application. The total cumulative rate should not exceed 4 pints/A per season.
- Do not use BROX™-At on any crop other than stated on this label.
- Application to grain sorghum growing under stress caused by minor element deficiency or to grain sorghum growing on highly calcareous soil may result in crop injury.
- Special care should be taken when using BROX™-At and Albaugh Dicamba DMA Salt, Banvel®, Clarity®, or 2,4-D tank mixtures to avoid off-target drift to sensitive crops.
- Tank mixtures with 2,4-D, Albaugh Dicamba DMA Salt, Banvel®, or Clarity® can cause stalk brittleness to field corn. Tank mixtures with 2,4-D and Albaugh Dicamba DMA Salt or Banvel® can cause stalk brittleness to sorghum. Winds or cultivation may cause breakage while crop is brittle.
- Do not apply BROX™-At at any rate to sorghum which has reached the boot stage of growth as severe crop injury, including loss of crop yield, may result.
- Postemergence application prior to the 3 leaf stage of corn may result in increased crop leaf burn.
- Do not apply BROX™-At prior to the 3 leaf stage to seed corn inbreds or popcorn as excessive crop leaf burn may occur.
- Tank mixtures with Accent® + nonionic surfactant may result in increased crop leaf burn. Use of crop oil concentrate, nitrogen solution or other adjuvants with BROX™-At + Accent® tank mixtures may result in a further increase in crop leaf burn.

CROP ROTATION

BROX™-At contains bromoxynil at 3/16 active per pint of product. The plantback interval for bromoxynil on corn and sorghum is 30 days. BROX™-At contains atrazine at 1/4 lb active per pint of product. Due to the residual activity of the atrazine, injury to crops planted in treated fields the following season may occur. Consult your local extension service on the potential for atrazine carryover injury to rotational crops for your soil types and weather conditions encountered following application. If in doubt about your specific situation, a soil test prior to planting rotation crops is recommended after the 30-day plantback to determine the amount of atrazine remaining and its potential to cause injury to the intended crop.

ATRAZINE RATE RESTRICTIONS

Where there are state/local requirements regarding atrazine use (including lower maximum rates and/or higher set-backs) which are different from the label, the more restrictive/protective requirements apply.

PRE-PLANT/PREEMERGENCE USE

This product contains atrazine at 0.25 lb ai per pint. If BROX™-At is applied preplant or preemergence with appropriately registered products containing atrazine, the following restrictions apply: On highly erodible soils where conservation tillage is utilized (> 30% plant residue), the maximum allowable atrazine rate per growing season is 2.0 lb ai/A. On highly erodible soils where plant residue is less than 30%, the maximum allowable atrazine rate is 1.6 lb. ai/A. On soils not highly erodible, the maximum allowable soil-applied atrazine rate is 2.0 lb ai/A.

POSTEMERGENCE USE

This product contains atrazine at 0.25 lb ai per pint. Where there has been no previous atrazine soil application to the crop, if BROX™-At is applied postemergence with appropriately registered products containing atrazine, the total amount of atrazine applied cannot exceed 2.0 lbs ai/A. Where a previous soil application of atrazine has been made to the crop, if BROX™-At is applied postemergence with appropriately registered products containing atrazine, the total amount of atrazine applied cannot exceed 2.5 lb ai/A per calendar year.

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CONDITIONS OF SALE AND WARRANTY

The DIRECTIONS FOR USE of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of ALBAUGH, INC., its Supplemental Distributors, or the Seller. All such risks shall be assumed by the Buyer.

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