

U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (7505C) 401 "M" St., S.W. Washington, D.C. 20460 EPA Reg. Number: Date of Issuance: 0CT 18 2005

42750-48

Term of Issuance:
UnConditional

Name of Pesticide Product:

Brox 2EC Herbicide

NOTICE OF PESTICIDE:

\_\_\_ Registration
x Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Mr. Morris Gaskins

Albaugh, Inc.

P.O. Box 2127

Valdosta, GA 31604-2127

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

Based on your response to the Bromoxynil Reregistration Eligibility Decision (RED) document, EPA has reregistered the product listed above provided you:

Under the heading "Warranty Limitations and Disclaimer", at the start of the section add the following text:

To the extent allowed by law, all such risks shall be assumed by the buyer.

Signature of Approving Official:

Date:

16-1865

## BROX<sup>™</sup> 2EC HERBICIDE

FOR THE CONTROL OF CERTAIN BROADLEAF WEEDS IN CORN (FIELD AND POP), SORGHUM (GRAIN AND FORAGE), SMALL GRAINS, SEEDLING ALFALFA, FLAX, GARLIC, ONIONS, MINT, GRASSES GROWN FOR SEED AND SOD PRODUCTION, CONSERVATION RESERVE PROGRAM (CRP) AREAS, NON-RESIDENTIAL TURFGRASS, AND NON-CROPLAND/INDUSTRIAL SITES

ACTIVE INGREDIENT:	• • • • • •
Octanoic acid ester of bromoxynil* (3,5-dibromo-4-hydroxybenzonitrile)	22.40/
OTHER INGREDIENTS:	
TOTAL	100.0%
Contains xylene range/petroleum distillates. *Bromoxynil octanoate equivalent to 22.9% of bromoxynil or not les	
*Bromoxynil octanoate equivalent to 22.9% of bromoxynil or not les	
of bromoxynil per gallon.	

### KEEP OUT OF REACH OF CHILDREN

### WARNING/AVISO

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).

	FIRST AID
IF IN EYES:	<ul> <li>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.</li> </ul>
IF SWALLOWED:	<ul> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>
IF INHALED:	<ul> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
IF ON SKIN:	<ul> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
<u> </u>	HOT LINE NUMBER
Have the product co	ontainer or label with you when calling a poison control center or doctor, or going for treatment.

See additional Precautionary Statements inside booklet.

EPA Reg. No. 42750-48

EPA Est. No. 42750-MO-1

**NET CONTENTS** 

Manufactured by: ALBAUGH, INC. Ankeny, Iowa 50021

FOR CHEMICAL PROPERTY OF EXPOSURE, CALL CHEMTREC (800) 424-9300 In EPA Letter Dated:

OCT 18 2005
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.

You may also contact 1-800-424-9300 for emergency medical treatment information.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

# PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

### WARNING

Causes substantial but temporary eye injury. Harmful if swallowed, inhaled, or absorbed through skin. Do not get in eyes or on clothing. Wear long-sleeved shirt and long pants, socks and shoes, and goggles or face shield. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse. Probable mucosal damage may contraindicate the use of gastric lavage.

### PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemical resistant to this product are listed below. If you want options, follow the instructions for category G on EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- 1. Long-sleeved shirt and long pants
- 2. Chemical resistant gloves such as barrier laminate or viton gloves
- 3. Shoes plus socks
- 4. Protective eyewear
- 5. Chemical resistant apron for cleaning equipment, mixing, and loading.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. 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.

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. IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown.

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.

Application by chemigation must be done by fixed pipe, overhead sprinkler systems or hand moved pipe. If hand moved pipe is used for chemigation, the pipe must not be handled in any way until 24 hours after chemigation has been completed and residues have been flushed from the system. When applying by chemigation, no person may enter the application site unless in an enclosed vehicle.

During aerial application, human flaggers are prohibited unless in enclosed vehicles. Aerial application is prohibited within 300 feet of residential areas (e.g., homes, schools, hospitals, shopping areas, etc.)

### USER SAFETY RECOMMENDATIONS

User should:

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove clothing immediately if pesticide gets inside.

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 and fish. Use with care when applying to areas frequented by wildlife or adjacent to any body of water. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from target areas. Do not contaminate water when disposing of equipment washwaters.

### 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. Read entire label before using this product. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### AGRICULTURAL USE REQUIREMENTS

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

Except for turf grown for transplanting, do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

For turf grown for transplanting (e.g., on sod farms), do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 26 days.

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

- Coveralls over long-sleeved shirt and long pants
- Chemical resistant gloves such as barrier laminate or viton gloves
- Shoes plus socks
- 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 allowed to freeze, remix 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: 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, by burning. If burned, stay out of smoke.

RETURNABLE/REFILLABLE CONTAINERS: After use, return the container to the point of purchase or designated locations. This container must only be refilled with BROX<sup>TM</sup> 2EC HERBICIDE. 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<sup>TM</sup> 2EC HERBICIDE is formulated as a emulsifiable concentrate of octanoic acid ester of bromoxynil containing the equivalent of 2 pounds of bromoxynil per gallon.

BROX<sup>TM</sup> 2EC HERBICIDE is a selective postemergence herbicide for control of important broadleaf weeds infesting corn (field and pop), sorghum (grain and forage), small grains (wheat, barley, oats, rye, triticale), alfalfa (seedling), flax, onions, garlic, mint (established peppermint and spearmint), Conservation Reserve Program (CRP) areas, grasses grown for seed or sod production, non-residential turfgrass, and non-cropland and industrial sites. Optimum

weed control is obtained when BROX<sup>TM</sup> 2EC HERBICIDE is applied to actively growing weed seedlings. BROX<sup>TM</sup> 2EC HERBICIDE is primarily a contact herbicide, therefore thorough coverage of the weed seedlings is essential for optimum control.

BROX<sup>TM</sup> 2EC HERBICIDE has little residual activity. Therefore subsequent flushes of weeds will not be controlled by the initial treatment. Generally crops that form a good canopy will help shade subsequent weed flushes. However, certain crops or short-straw varieties, for example Yaccora Rojo wheat, may not develop the crop canopy fast enough to shade the subsequent flushes of weeds.

Occasional transitory leaf burn may occur. The temporary leaf burn is similar to that seen with liquid fertilizer. Because the activity of BROX<sup>TM</sup> 2EC HERBICIDE is not systemic, recovery of the crop is generally rapid with no lasting effect. Frequency and amount of leaf burn may be greater when crops are stressed by abrasive winds, cool to cold evening temperatures or mechanical injury, such as that caused by hail, sleet or insect feeding. To reduce the potential for temporary leaf burn, applications should be made to dry foliage in the recommended spray volumes per acre when weather conditions are not extreme.

### 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 60 gallons or more of this product per day, you must use a mechanical transfer system for all mixing and loading operations. If this product is packaged in a 30 gallon drum, you must 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 had been fitted with a compatible coupling. If you do not presently own 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 must be used to rinse the empty container and to transfer the rinsate directly to the mixing or spray tank.

BROX<sup>TM</sup> 2EC HERBICIDE ALONE: Fill the spray tank 1/2 to 3/4 full with clean water. Begin agitation and add the recommended amount of BROX<sup>TM</sup> 2EC HERBICIDE. Add water to the spray tank to the desired level. Maintain sufficient agitation to ensure a uniform spray mixture during application.

TANK MIXTURES: BROX<sup>TM</sup> 2EC HERBICIDE 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<sup>TM</sup> 2EC HERBICIDE in mixture with another product, fill the spray tank 1/2 to 3/4 full with clean water and begin agitation. If tankmixing with wettable powder, soluble powder, flowable or dry flowable products, add the powder or flowable product first. After the other herbicide is thoroughly mixed with water, add the recommended amount of BROX<sup>TM</sup> 2EC HERBICIDE and add water to the spray tank to the desired level. If tankmixing with other product types, add the BROX<sup>TM</sup> 2EC HERBICIDE first before adding the other product. 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.

COMPATIBILITY OF INSECTICIDES WITH BROX<sup>TM</sup> 2EC HERBICIDE: The following foliar insecticides are compatible with BROX<sup>TM</sup> 2EC HERBICIDE as tank mixtures:

INSECTICIDE			ŀ
COMMON NAME	TRADE NAME	FORMULATION	
Diazinon	Various	Emulsifiable Concentrate	
Dimethoate	Various	Emulsifiable Concentrate	J
Trichlorfon	Dylox®	Soluble Powder	
Carbofuran	Furadan®	Flowable	
Chlorpyrifos	Lorsban®	Emulsifiable Concentrate	
Malathion	Various	Emulsifiable Concentrate	ŀ
Oxydemeton-methyl	Metasystox-R®	Sprayable Concentrate	
Permethrin	Pounce®	Emulsifiable Concentrate	<b>[</b>

Fenvalerate Carbaryl	Pydrin® Sevin®	Emulsifiable Concentrate Sprayable Wettable Powder or Flowable	
Demeton	Systox®	Emulsifiable Concentrate	

If tank mixing with products other than those listed above or 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<sup>TM</sup> 2EC HERBICIDE.

SPRAYABLE LIQUID FERTILIZERS AND SPRAY ADDITIVES: BROX<sup>TM</sup> 2EC HERBICIDE can be applied in combination with sprayable fiquid fertilizer or spray additives such as surfactants or crop oil concentrate. When tankmixing with liquid fertilizer, always add the fertilizer to the spray tank first and agitate thoroughly before adding BROX<sup>TM</sup> 2EC HERBICIDE. 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<sup>TM</sup> 2EC HERBICIDE is evenly mixed with the fertilizer. Leaf burn may occur when BROX<sup>TM</sup> 2EC HERBICIDE is applied with liquid fertilizer, but new leaves are not adversely affected.

NOTE: Fertilizers and spray additives can increase foliage leaf burn when applied with BROX<sup>TM</sup> 2EC HERBICIDE. Do not apply fertilizers or spray additives with BROX<sup>TM</sup> 2EC HERBICIDE if leaf burn is a major concern due to environmental conditions, crop or variety sensitivity to BROX<sup>TM</sup> 2EC HERBICIDE. Do not apply BROX<sup>TM</sup> 2EC HERBICIDE in combination with fertilizers or spray additives if restricted under the individual crop use directions.

### APPLICATION PROCEDURES

BROX<sup>TM</sup> 2EC HERBICIDE can be applied to registered use areas by ground, aerial and sprinkler irrigation equipment. The following provides recommended methods of application for each crop.

	TYP	E OF APPLICATIO	N EQUIPMENT
CROP	GROUND	AERIAL	SPRINKLER IRRIGATION
Corn (field & pop)	x	х	X
Sorghum (grain & forage), and			
Sudangrass	x	X	x
Small grains	Х	X	x
Alfalfa (seedling)	X	X	X
Flax	x	х	
Garlic	х	X	Х
Mint	x		x
Onions	x		
Grass grown for seed or sod production	×	X	
Conservation Reserve Program (CRP) Areas	x	x	
Non-residential turfgrass	x	X	
Non-cropland/Industrial sites	x	x	

<sup>(</sup>x) indicates recommended application use.

### **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 minimum spray pressure of 30 psi at the nozzle tips are recommended. Other nozzle types that produce course spray droplets may not provide adequate coverage of the weeds to ensure optimum control. Raindrop® nozzles are not recommended as weed control with BROX<sup>TM</sup> 2EC HERBICIDE may be reduced. In general, a minimum spray volume of 10 gallons per acre (GPA) is recommended for optimum spray coverage. A minimum of 5 GPA with a minimum spray pressure of 50 psi 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 and subsequent poor spray coverage. Ground applications made when dry, dusty field conditions exist may provide reduced weed control in wheel track areas.

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**

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. A minimum spray volume of 3 GPA may be used if crop canopy and weed density allow adequate spray coverage at that gallonage.

Do not apply during inversion conditions, when winds are gusty or when other conditions favor poor spray coverage and/or off target spray movement. Off target spray movement can be minimized by increasing the spray volume per acre and not applying when winds exceed 10 mph.

### SPRINKLER IRRIGATION APPLICATION

BROX<sup>TM</sup> 2EC HERBICIDE can be applied through sprinkler irrigation systems to small grains, field corn, popcorn, grain sorghum, onions, garlic, and seedling alfalfa.

Apply BROX<sup>TM</sup> 2EC HERBICIDE through sprinkler systems including center pivot, lateral move, side (wheel) roll, solid set or hand move irrigation systems only. If hand moved pipe is used for chemigation, the pipe must not be handled in any way until 24 hours after chemigation has been completed and residues have been flushed from the system. When applying by chemigation, no person may enter the application site unless in an enclosed vehicle. Do not apply this product through any other type of irrigation system.

### SPECIFIC REQUIREMENTS FOR APPLICATION THROUGH AUTOMATED SPRINKLER IRRIGATION SYSTEM

- 1. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- 2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 3. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- 4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- 7. Do not apply when wind speed favors drift beyond the area intended for treatment.
- 8. Agitation is recommended in the pesticide supply tank when applying BROX<sup>™</sup> 2EC HERBICIDE.
- 9. BROX<sup>TM</sup> 2EC HERBICIDE should be applied continuously for the duration of the water application with center pivot and continuous lateral move systems. Applications of BROX<sup>TM</sup> 2EC HERBICIDE should be made during the last 30-45 minutes of the irrigation set with other overhead sprinkler systems.
- 10. For best performance, set the sprinkler system to deliver approximately 0.5 inch or less of water per acre.
- 11. Remove scale, pesticide residues and other foreign matter from the supply tank and entire injector system. Flush with clean water.
- 12. If BROX<sup>TM</sup> 2EC HERBICIDE is diluted in the supply tank, fill the tank with half of the water amount desired, add BROX<sup>TM</sup> 2EC HERBICIDE and then add remaining water amount with agitation. Always dilute with at least 4 parts water to 1 part BROX<sup>TM</sup> 2EC HERBICIDE.

13. Start the sprinklers and then inject BROX<sup>™</sup> 2EC HERBICIDE into the irrigation line. BROX<sup>™</sup> 2EC HERBICIDE should be injected with a positive displacement pump into the main line at least 8 feet ahead of a right angle turn to insure adequate mixing. Refer to the BROX<sup>™</sup> 2EC HERBICIDE label for detailed information on application rates and timings.

### CHEMIGATION USER PRECAUTIONS

- Application of more than 0.5 inch/acre of irrigation water may result in decreased product performance on certain soils.
- Do not apply when conditions favor drift, when system connections or fittings leak, or when nozzles do not provide uniform distribution.
- Allow sufficient time for pesticide to be flushed through all the lines and nozzles before turning off irrigation water.
- Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.
- Do not connect an irrigation system used for pesticide application to a public water system.
- If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.
- A person knowledgeable of the chemigation system and responsible for its operations, or under the supervision
  of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

### CULTIVATION

When properly utilized, timely cultivations of row crops may aid overall weed control efforts as well as crop growth. However, cultivation BEFORE or DURING BROX<sup>TM</sup> 2EC HERBICIDE applications may place target weeds under stress, resulting in erratic weed control. Whenever BROX<sup>TM</sup> 2EC HERBICIDE 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.

### AERIAL SPRAY DRIFT MANAGEMENT

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 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 ¾ the length of the wingspan or rotor.
- 2. Nozzles must always point backwards 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 section below.

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.

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- 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 displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. 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 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 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).

### **GENERAL WEED LIST**

Postemergence application of BROX<sup>TM</sup> 2EC HERBICIDE will control the following weeds when sprayed in the seedling stage. Maximum weed stage of growth is listed under RECOMMENDED USES for each crop.

MOST SUSCEPTIBLE BROADLEAF WEEDS		SUSCEPTIBLE BROADLEAF WEEDS	
Annual Sowthistle	Sonchus oleraceus	Buffalobur	Solanum rostratum
Black Nightshade	Solanum nigrum	Burcucumber	Sicyos angulatus
Blue Mustard	Chorispora tenella	Common Groundsel	Senecio vulgaris
Bristly Starbur	Acanthospermum hispidum	Common ragweed	Ambrosia artemisiifolia

Coast Fiddleneck	Amsinckia intermedia	Corn Chamomile	Anthemis arvensis
Common Cocklebur	Xanthium strumarium	Corn Gromwell	Lithospermum arvense
Common Lambsquarters	Chenopodium album	Cow Cockle	Saponaria vaccaria
Common Tarweed	Hemizonia congesta	Giant Ragweed	Ambrosia trifida
Cutleaf Nightshade	Solanum triflorum	Hemp Sesbania	Sesbania exaltata
Eastern Black Nightshade	Solanum ptycanthum	Ivyleaf Morningglory	Ipomoea hederacea
Field Pennycress	Thlaspi arvense	Knawel	Scleranthus annus
Green Smartweed	Polygonum scabrum	<sup>2</sup> Kochia	Kochia scoparia
Hairy Nightshade	Solanum sarachoides	London Rocket	Sisymbrium irio
Jimsonweed	Datura stramonium	Mayweed	Anthemis cotula
Ladysthumb	Polygonum persicaria	Pitted Morningglory	Ipomoea lacunosa
Pennsylvania Smartweed	Polygonum pensylvanicum	Prostrate Knotweed	Polygonum aviculare
Pepperweed spp.	(annual) (Lepidium spp.)	Puncturevine	Tribulus terrestris
Shepherdspurse	Capsella bursa-pastoris	<sup>2</sup> Redroot Pigweed	Amaranthus retroflexus
Silverleaf Nightshade	Solanum elaeagnifolium	Russian Thistle	Salsola kali
Tartary Buckwheat	Fagopyrum tatoricum	<sup>2</sup> Spiny Pigweed	Amaranthus spinosus
<sup>1</sup> Sunflower	Helianthus annus	Tall Morningglory	Ipomoea Purpurea
Wild Buckwheat	Polygonum convolvulus	<sup>2</sup> Tall Waterhemp	Amaranthus tuberculatus
		Tumble Mustard	Sisymbrium altissimum
		Velvetleaf	Abutilon theophrasti
		Venice Mallow	Hibiscus trionum
		Wild Mustard	Sinapis arvensis
		Wild Radish	Raphanus raphanistrum

<sup>&</sup>lt;sup>1</sup>For control of sunflower, delay application until first emerging sunflower seedlings are 4 inches in height.

## WEED SUPPRESSION

 $\mathsf{BROX}^\mathsf{TM}$  2EC HERBICIDE suppresses the growth of Canada thistle (Cirsium arvense) by burning down top growth. Regrowth may occur.

### SPECIFIC CROP RECOMMENDATIONS

### **CEREAL GRAIN CROPS**

Corn (Field and Pop), Sorghum (Grain and Forage), and Sudangrass Small Grains (Wheat, Barley, Oats, Rye and Triticale)

### FORAGE, FIBER AND SPECIALTY CROPS

Alfalfa (Seedling)

Flax

Garlic

Mint (Established Peppermint and Spearmint)

Onions

### **GRASS CROPS**

Conservation Reserve Program (CRP) Areas Grass Grown for Seed or Sod Production Non-Residential Turfgrass

## NON-CROPLAND

Non-cropland and Industrial Sites

<sup>&</sup>lt;sup>2</sup>For effective control, these weeds should not exceed the 4-leaf stage or 2 inches in height, whichever comes first.

### CEREAL GRAIN CROPS CORN (FIELD AND POP), SORGHUM (GRAIN AND FORAGE), AND SUDANGRASS

### BROX<sup>™</sup> 2EC HERBICIDE RECOMMENDATIONS

PRODUCT	RATE
BROX™ 2EC HERBICIDE	Preemergence
	1-1 1/2 pints/A

### CROP

Apply to corn or sorghum before planting until just prior to crop emergence.

#### WEEDS

See CORN AND SORGHUM APPLICATION RATE TABLE—BROX<sup>TM</sup> 2EC HERBICIDE for list of weeds and corresponding stages of growth that are controlled by BROX<sup>TM</sup> 2EC HERBICIDE at recommended rates of application. For control of additional weeds not listed in the rate table see the GENERAL WEED LIST.

### BROX <sup>™</sup> 2EC HERBICIDE

1 pint/A

### CROP

Apply to corn after emergence but prior to tassel emergence.

Apply to sorghum and sudangrass between the 3 leaf stage but prior to the preboot stage (growth stage 4).

#### WEEDS

See CORN AND SORGHUM APPLICATION RATE TABLE—BROX<sup>TM</sup> 2EC HERBICIDE for list of weeds and corresponding stages of growth that are controlled by BROX<sup>TM</sup> 2EC HERBICIDE at recommended rates of application. For control of additional weeds not listed in the rate table see the GENERAL WEED LIST.

### BROX<sup>™</sup> 2EC HERBICIDE

1-1/2 pints/A

### CROP

Apply to corn between the 4 leaf stage and prior to tassel emergence.

Apply to sorghum and sudangrass between the 4 leaf stage but prior to the preboot stage (growth stage 4).

### WEEDS

See CORN AND SORGHUM APPLICATION RATE TABLE—BROX<sup>TM</sup> 2EC HERBICIDE for list of weeds and corresponding stages of growth that are controlled by BROX<sup>TM</sup> 2EC HERBICIDE at recommended rates of application. For control of additional weeds not listed in the rate table see the GENERAL WEED LIST.

## BROX™ 2EC HERBICIDE

2 pints/A

#### CROP

Apply to field corn only between the 4 leaf stage but prior to tassel emergence. Do not apply the 2 pints/A rate of BROX<sup>TM</sup> 2EC HERBICIDE alone or in tank mixtures to sorghum.

### **WEEDS**

Use the 2 pints/A rate on corn to control susceptible weeds that are growing under less than optimum conditions and where BROX<sup>TM</sup> 2EC HERBICIDE + atrazine tank mixtures cannot be used.

### BROX™ 2EC HERBICIDE

Chemigation 2 pints/A only

#### DIVOX ZEO HENDIOIDE

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### CROP

Apply to corn after emergence but prior to tassel emergence.

Apply to sorghum and sudangrass after emergence but prior to preboot stage (growth stage 4).

Apply through automated sprinkler irrigation systems with a mechanical transfer loading system only. See MIXING, LOADING AND HANDLING INSTRUCTIONS section for complete details.

#### WEEDS

Apply to MOST SUSCEPTIBLE broadleaf weeds up to the 8 leaf stage or 4 inches in height or 2 inches in diameter, whichever comes first. Apply to SUSCEPTIBLE broadleaf weeds up to the 4 leaf stage, 2 inches in height or 1 inch in

diameter, whichever comes first. Do not use chemigation for control of weeds that exceed 4 inches in height because control may be unacceptable.

## CORN AND SORGHUM APPLICATION RATE TABLE—BROX<sup>™</sup> 2EC HERBICIDE

WEED	SPECIES	1 Pi	nt/A	1 ½ to 2	Pints/A <sup>3</sup>
(When deterr	nining leaf stage,	Max.	Max.	Max.	Max.
	eaves except	Leaf Stage	Weed	Leaf	Weed
cotyledo	nary leaves)		Height	Stage	Height
			(inches)		(inches)
Black Nightshade	Solanum nigrum	6	6	6	6
Buffalobur	Solanum rostratum	4	2	6	4
Burcucumber	Sicyos angulatus	-	•	4	4
Common Cocklebur	Xanthium strumarium	6	8	8	10
Common Lambsquarters	Chenopodium album	-	6	-	8
Common Ragweed	Ambrosia artemisiifolia	6	4	8	6
Eastern Black Nightshade	Solanum ptycanthum	6	6	6	6
Giant Ragweed	Ambrosia trifida	6	4	6	6
Hemp Sesbania	Sesbania exaltata	-	-	4	4
Ivyleaf Morningglory	Ipomoea hederacea	3	3	4	4
Jimsonweed	Datura stramonium	4	4	6	6
Kochia	Kochia scoparia	-	-	-	2
Ladysthumb	Polygonum persicaria	4	4	6	6
Pennsylvania Smartweed	Polygonum pensylvanicum	4	4	6	6
Pitted Morningglory	Ipomoea lacunosa	3	3	4	4
Redroot Pigweed <sup>2</sup>	Amaranthus retroflexus	-	-	4	2
Spiny Pigweed <sup>2</sup>	Amaranthus spinosus		-	4	2
Sunflower	Helianthus annus	4	6	6	8
Tall Morninggiory	Ipomoea purpurea	3	3	4	4
Tall Waterhemp <sup>2</sup>	Amaranthus tuberculatus	-	-	4	2
Velvetleaf	Abutilon theophrasti	4	3	6	5
Venice Mallow	Hibiscus trionum	-	-	4	2
Wild Buckwheat	Polygonum convolvulus	4	6	6	8
Wild Mustard	Sinapis arvensis	-	-	4	4
WEEDS SUPPRESSED'					
Canada Thistle	Cirsium arvense	Not recom	mended	8 inch to t	oud stage

<sup>&</sup>lt;sup>1</sup>BROX<sup>™</sup> 2EC HERBICIDE suppresses growth by burning down of top growth. Regrowth may occur.

### BROX<sup>™</sup> 2EC HERBICIDE TANK MIXTURE RECOMMENDATIONS

PRODUCT	RATE
BROX™ 2EC HERBICIDE	Preemergence
+	3/4-1 1/2 pints/A
atrazine	+
	1/2-1 1/5 lbs ai/A

#### CROP

Apply to corn or sorghum before planting until just prior to crop emergence.

#### WEEDS

See CORN AND SORGHUM APPLICATION RATE TABLE—BROX™ 2EC HERBICIDE + ATRAZINE TANK MIXTURES for list of weeds and corresponding stages of growth that are controlled by BROX™ 2EC HERBICIDE +

<sup>&</sup>lt;sup>2</sup>Control of pigweeds in the high plains areas of Texas and Oklahoma may not be satisfactory with BROX<sup>™</sup> 2EC HERBICIDE. Repeat applications may be necessary to achieve satisfactory control.

 $<sup>^3\</sup>text{Do}$  not apply BROX  $^{\text{TM}}$  2EC HERBICIDE at the 2 pints/A rate to sorghum.

Atrazine tank mixtures at recommended rates of application. For control of additional weeds not listed in the rate table see the GENERAL WEED LIST.

BROX™ 2EC HERBICIDE	3/4-1 pint/A
5.10.1 210.1210.0102	C, T, Pillor
+	+
atrazine	1/2-1 1/5 lbs ai/A
attazine	1/2-1 1/3 lb3 al/A

CROP

Apply to corn after emergence but before corn is 12 inches tall.

Apply to sorghum between the 3 leaf stage but prior to the preboot stage (growth stage 4) or 12 inches in height, whichever comes first.

### **WEEDS**

See CORN AND SORGHUM APPLICATION RATE TABLE—BROX<sup>TM</sup> 2EC HERBICIDE + ATRAZINE TANK MIXTURES for list of weeds and corresponding stages of growth that are controlled by BROX<sup>TM</sup> 2EC HERBICIDE + Atrazine tank mixtures at recommended rates of application. For control of additional weeds not listed in the rate table see the GENERAL WEED LIST.

BROX <sup>™</sup> 2EC HERBICIDE	1 1/2 pints/A
+	+
atrazine	1/2-1 1/5 lbs ai/A

CROP

Apply to corn between the 4 leaf stage and before corn is 12 inches tall.

Apply to sorghum between the 4 leaf stage but prior to the preboot stage (growth stage 4) or 12 inches in height, whichever comes first.

#### WEEDS

See CORN AND SORGHUM APPLICATION RATE TABLE—BROX<sup>TM</sup> 2EC HERBICIDE + ATRAZINE TANK MIXTURES for list of weeds and corresponding stages of growth that are controlled by BROX<sup>TM</sup> 2EC HERBICIDE + Atrazine tank mixtures at recommended rates of application. For control of additional weeds not listed in the rate table see the GENERAL WEED LIST.

### ATRAZINE TANK MIX RESTRICTIONS

Atrazine is a Restricted Use Herbicide due to groundwater concerns. Users must read and follow all precautionary statements and instructions on the atrazine label in order to minimize the potential for atrazine to reach groundwater.

CORN AND SORGHUM APPLICATION RATE TABLE - BROX<sup>™</sup> 2EC HERBICIDE + ATRAZINE TANK MIXTURES

WEED SPECIES	1			BR	OX <sup>™</sup> 21	EC HE	RBICID	E AND	ATRA	ZINE F	RATE (1	ANK I	MIX)
When determining le leaves except cotyle			pint/A + lb ai/A		pint/A + 5 lb ai/A		nt/A + o ai/A		t/A + lb ai/A		2 pint/A · 2 lb ai/A		/2 pint/A /5 lb ai/A
		Max Leaf Stage	Max Weed Height	Max Leaf Stage	Max Leaf Height								
Black Nightshade	(Solanum nigrum)	4	4	4	4	6	6	6	6	6	6	6	6
Buffalobur	(Solanum rostratun	1) 4	4	4	4	6	4	6	4	6	4	6	4
Burcucumber	(Sicyos angulatus)	4	4	4	4	4	4	6	6	6	6	6	6
		um)6	8	8	10	8	10	10	12	10	12	10	12
Common Lambsquar	rters(Chenopodium												
·	album)	•	6	-	10	-	10	-	12	-	12	-	12
Common Ragweed	(Ambrosia												
_	artemisiifolia)	6	4	8	6	8	6	8	6	8	6	8	6
Eastern Black													
Nightshade	(Solanum ptycanthu	ım)4	4	4	4	6	6	6	6	6	6	6	6
Entireleaf Morning-													
glory	(Ipomoea hederace	a) -	-	4	3	4	3	4	3	4	3	4	3
Giant Pigweed	(Ambrosia trifida)	4	6	6	8	6	8	6	8	8	10	8	10
Hemp Sesbania	(Sesbania exaltata)	4	4	4	4	4	4	4	4	4	4	4	4
	(Ipomoea hederace	a) 3	3	4	4	4	4	4	4	4	4	4	4
	(Datura stramonium	) 4	4	4	4	6	6	6	6	6	6	6	6

Kochia	(Kochia scoparia)	_	2		2	_	2	-	2	-	4	_	4
Ladysthumb	(Polygonum persical	na)4	4		‡ <u>-</u>	6	8	8	8	8	B	8	•
	ory(Ipomoea wrightii)	-	_	4	3	4	3	4	3	4	3	4	3
Pennsylvania Smart					•	•	-	·	•		•	•	•
•	pensylvanicum)	4	4	4	6	6	8	8	8	8	8	8	8
Pitted Morningglory	(Ipomoea lacunosa)	3	3	4	4	4	4	4	4	4	4	4	4
Prickly Sida	(Sida spinosa)	-	-	6	2	4	1	6	2	4	i	6	2
Puncturevine	(Tribulus terrestris)	_	-	-	-	_		6	4	6	4	6	4
Purple Morningglory	(Ipomoea muricata)	-	-	2	3	2	3	ž	3	2	3	2	3
Redroot Pigweed <sup>3</sup>	(Amaranthus				•	_		_	_	_	-	_	•
•	retroflexus)	4	2	8	6	6	4	8	6	6	4	8	6
Smallflower Morning	<u>-</u>		-	_	-	-		_	_		·	-	-
glory	(Jacquemontia	-	•	4	3	4	3	4	3	4	3	4	3
	tamnifolia												
Smooth Pigweed <sup>3</sup>	(Amarenthus hybridu	s)4	2	6	. 4	4	2	6	4	6	4	6	4
Spiny Pigweed <sup>3</sup>	(Amaranthus spinosu	is4	2	8	6	6	4	8	6	6	4	. 8	6
Sunflower	(Helianthus annus)	6	8	8	10	8	10	10	12	10	12	10	12
Tall Morningglory	(Ipomoea purpurea)	3	3	4	4	4	4	4	4	4	4	4	4
Tall Waterhemp <sup>3</sup>	(Amaranthus												
	tuberculatus)	4	2	8	6	6	4	8	6	6	4	8	6
Toothed Spurge	(Euphorbia dentata)		2	2	2	4	4	4	4	4	4	4	4
Velvetleaf	(Abutilon theophrasti	14	3	4	3	6	5	6	5	8	6	8	6
Venice Mallow	(Hibiscus trionum)	4	2	4	2	4	2	4	2	4	2	4	2
Wild Buckwheat	(Polygonum												
	convolvulus)	6	8	8	10	8	10	10	12	10	12	10	12
Wild Mustard	(Senapis arvensis)	4	4	4	4	4	4	4	4	4	4	4	4

WEEDS SUPP	RESSED <sup>2</sup>							
Canada thistle	(Cirsium arvensis)	Not Recommended	Not Recommended	8 inch to bud				

<sup>&</sup>lt;sup>1</sup>When determining leaf stage, count all leaves except cotyledonary leaves.

### ATRAZINE CONVERSION TABLE<sup>1</sup>

ATRAZINE FORMULATION	ATRAZINE RATE POUNDS OF ACTIVE INGREDIENT PER ACRE	ATRAZINE FORMULATION RATE PER ACRE	
Atrazine 4L	1/2	1 Pint	_
	1 1/5	2 2/5 Pints	
Atrazine 80WP	1/2	5/8 Pound	
	· 1 1/5	1 1/2 Pounds	
Aatrex® Nine-O	1/2	3/5 Pound	
	1 1/5	1 1/3 Pounds	

<sup>&</sup>lt;sup>1</sup>Follow all precautions and limitations on the labels of products used in tank mixture with BROX<sup>™</sup> 2EC HERBICIDE.

### SPECIAL USE DIRECTIONS FOR OTHER WEED PROBLEMS IN CORN AND SORGHUM

Large Common Cocklebur, Common Lambsquarters and Sunflower

For control of common cocklebur and common lambsquarters up to 14 inches in height and sunflower up to 18 inches in height, use a postemergence application of BROX<sup>TM</sup> 2EC HERBICIDE at 1 pint/A. Make a second application of BROX<sup>TM</sup> 2EC HERBICIDE at the same rate 7 to 10 days later.

<sup>&</sup>lt;sup>2</sup>Selected rates of BROX<sup>TM</sup> 2EC HERBICIDE + atrazine tank mixtures suppress growth by burning down of top growth. Regrowth may occur.

<sup>&</sup>lt;sup>3</sup>If pigweeds (*Amaranthus sp.*) present in the field to be treated have been identified as triazine resistant biotypes, use BROX<sup>TM</sup> 2EC HERBICIDE at 1 1/2 pints/A in a tank mixture with atrazine at 1/2 or 1 1/5 lb ai/A. Applications should be made when pigweeds do not exceed the 4-leaf stage and 2 inches in height. Control of pigweeds in the high plains areas of Texas and Oklahoma may not be satisfactory with BROX<sup>TM</sup> 2EC HERBICIDE + atrazine tank mixtures. Repeat applications may be necessary to achieve satisfactory control.

### Large Velvetleaf

For control of velvetleaf up to 14 inches in height, use postemergence application of BROX<sup>TM</sup> 2EC HERBICIDE at 1 1/2-2 pints/A or BROX<sup>™</sup> 2EC HERBICIDE + atrazine tank mixture at 1 pint/A + 1 1/5 ai/A. Make a second application of BROXTM 2EC HERBICIDE at 1 pint/A 7 to 10 days later, but do not exceed a total of 2 pints/A per season on corn (field and pop).

### Canada Thistle Management

For effective management of Canada thistle, the following BROX<sup>™</sup> 2EC HERBICIDE treatments should be applied to thistle from 8 inches to the bud stage for in-season burndown of top growth:

BROX<sup>™</sup> 2EC HERBICIDE at 1 1/2-2 pints/A

BROX™ 2EC HERBICIDE at 1-1 1/2 pints/A + atrazine at 1/2-1 1/5 lbs ai/A
BROX™ 2EC HERBICIDE at 1-1 1/2 pints/A + Banvel® or Clarity® at 1/4-1/2 pint/A

BROX™ 2EC HERBICIDE at 1 1/2 pints/A + atrazine at 1/2-1 1/5 lbs ai/A + Banvel® or Clarity® at 1/8-1/4 pint/A

BROX<sup>TM</sup> 2EC HERBICIDE at 1-1 1/2 pints/A + 2,4-D at 1/8-1/4 lb ai/A

BROX™ 2EC HERBICIDE at 1-1 1/2 pints/A + atrazine at 1/2-1 1/5 lbs ai/A + 2,4-D at 1/8-1/4 lb ai/A

If possible follow with cultivation 14-21 days after treatment. In the fall apply 2,4-D, Banvel®, Clarity®, or Roundup® at recommended rates to Canada thistle 4-8 inches tall prior to killing frost. Follow with a similar control program in next year's rotational crop.

### ADDITIONAL BROX<sup>™</sup> 2EC HERBICIDE TANK MIXTURE RECOMMENDATIONS

PRODUCT	RATE
BROX™ 2EC HERBICIDE	1 pint/A
+	+
Banvel® <sup>1</sup>	1/8-1/2 pint/A

### **CROP**

Apply to field corn after emergence but before corn is 36 inches tall or 15 days before tassel emergence, whichever

Apply to sorghum between the 3 leaf stage but prior to the preboot stage (growth stage 4) or 15 inches in height, whichever comes first. Do not apply in the boot stage. Use drop nozzles if crop is taller than 8 inches.

All weeds controlled by BROX™ 2EC HERBICIDE at recommended rates of application plus improved control of pigweed. For Canada thistle burndown and field bindweed suppression up to the midbloom stage, use 1/4-1/2 pint/A of Banvel® with BROX<sup>TM</sup> 2EC HERBICIDE.

BROX™ 2EC HERBICIDE	1 1/2 pints/A
+	<b> </b>
Banvel® <sup>1</sup>	1/8-1/2 pint/A

Apply to field corn between the 4 leaf sage but before corn is 36 inches tall or 15 days before tassel emergence, whichever comes first.

Apply to sorghum between the 4 leaf stage but prior to the preboot stage (growth stage 4) or 15 inches in height, whichever comes first. Do not apply in the boot stage. Use drop nozzles if crop is taller than 8 inches.

All weeds controlled by BROX<sup>TM</sup> 2EC HERBICIDE at recommended rates of application plus improved control of pigweed. For Canada thistle burndown and field bindweed suppression up to the midbloom stage, use 1/4-1/2 pint/A of Banvel® with BROX<sup>TM</sup> 2EC HERBICIDE.

BROX™ 2EC HERBICIDE	1 pint/A
+ atrazine	+ 1/2-1 1/5 lbs ai/A
+ Banvel® <sup>1</sup>	+ 1/8-1/4 pint/A
CROP	

Apply to field corn after emergence but before corn is 12 inches tall.

Apply to sorghum between the 3 leaf stage but prior to the preboot stage (growth stage 4) or 12 inches in height, whichever comes first. Do not apply in the boot stage. Use drop nozzles if crop is taller than 8 inches.

### **WEEDS**

All weeds controlled by BROX<sup>TM</sup> 2EC HERBICIDE + atrazine tank mixtures at recommended rates of application plus improved control of pigweed. For field bindweed suppression, use 1/4 pint/A of Banvel®/Clarity® with BROX<sup>TM</sup> 2EC HERBICIDE.

BROX™ 2EC HERBICIDE	1 1/2 pints/A
+ atrazine	+ 1/2-1 1/5 lbs ai/A
+ Banvel® <sup>1</sup>	+ 1/8-1/4 pint/A

### CROP

Apply to field corn between the 4 leaf sage but before corn is 12 inches tall.

Apply to sorghum between the 4 leaf stage but prior to the preboot stage (growth stage 4) or 12 inches in height, whichever comes first. Do not apply in the boot stage. Use drop nozzles if crop is taller than 8 inches.

#### WEEDS

All weeds controlled by BROX<sup>™</sup> 2EC HERBICIDE + atrazine tank mixtures at recommended rates of application plus improved control of pigweed. For field bindweed suppression, use 1/4 pint/A of Banvel®/Clarity® with BROX<sup>™</sup> 2EC HERBICIDE.

Clarity may be used at the same rates as 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<sup>TM</sup> 2EC HERBICIDE or BROX<sup>TM</sup> 2EC HERBICIDE + atrazine on sorghum.

BROX™ 2EC HERBICIDE	1 pint/A
+	+
2,4-D	1/16-1/4 lb ai/A

### CROP

Apply to field corn after emergence but prior to tassel emergence. Use drop nozzles if crop is taller than 8 inches.

Apply to sorghum between the 3 leaf stage but prior to the preboot stage (growth stage 4) or 15 inches in height, whichever comes first. Do not apply in the boot stage. Use drop nozzles if crop is taller than 8 inches.

### **WEEDS**

All weeds controlled by BROX<sup>TM</sup> 2EC HERBICIDE at recommended rates plus improved pigweed and kochia control. For Canada thistle burndown and field bindweed suppression up to the midbloom stage, use 1/8-1/4 pint ai/A of 2,4-D with BROX<sup>TM</sup> 2EC HERBICIDE.

BROX™ 2EC HERBICIDE	1 1/2 pints/A
+	+
2,4-D	1/16-1/4 lb ai/A

### CROP

Apply to field corn between the 4 leaf stage but prior to tassel emergence. Use drop nozzles if crop is taller than 8 inches.

Apply to sorghum between the 4 leaf stage but prior to the preboot stage (growth stage 4) or 15 inches in height, whichever comes first. Use drop nozzles if crop is taller than 8 inches.

#### WEEDS

All weeds controlled by BROX<sup>TM</sup> 2EC HERBICIDE at recommended rates plus improved pigweed and kochia control. For Canada thistle burndown and field bindweed suppression up to the midbloom stage, use 1/8-1/4 lb ai/A of 2,4-D with BROX<sup>TM</sup> 2EC HERBICIDE.

BROX™ 2EC HERBICIDE	1 pint/A
+ atrazine	+ 1/2-1 1/5 lbs ai/A
+ 2,4-D	+ 1/16-1/4 lb ai/A
CROP	



Apply to field corn after emergence but before the corn is 12 inches tall. Use drop nozzles if crop is taller than 8 inches.

Apply to sorghum between the 3 leaf stage but prior to the preboot stage (growth stage 4) or 12 inches in height, whichever comes first. Use drop nozzles if crop is taller than 8 inches.

### **WEEDS**

All weeds controlled by BROX<sup>TM</sup> 2EC HERBICIDE + atrazine tank mixtures at recommended rates of application plus improved devils claw control. For Canada thistle burndown and field bindweed suppression, use 1/8-1/4 lb ai/A of 2,4-D with BROX<sup>TM</sup> 2EC HERBICIDE.

BROX <sup>™</sup> 2EC HERBICIDE	1 1/2 pints/A
BITOX 220 HEICHOIDE	1 172 pinto// (
+ atrazine	+ 1/2-1 1/5 lb ai/A
· dualine	172-17310 al/A
+ 2.4-D	+ 1/16-1/4 lb ai/A
, 2,4-0	+ 1/10-1/4 ID al/A

### CROP

Apply to field corn between the 4 leaf stage but before the corn is 12 inches tall. Use drop nozzles if crop is taller than 8 inches.

Apply to sorghum between the 4 leaf stage but prior to the preboot stage (growth stage 4) or 12 inches in height, whichever comes first. Use drop nozzles if crop is taller than 8 inches.

#### WEEDS

All weeds controlled by BROX<sup>TM</sup> 2EC HERBICIDE + atrazine tank mixtures at recommended rates of application plus improved devils claw control. For Canada thistle burndown and field bindweed suppression, use 1/8-1/4 lb ai/A of 2,4-D with BROX<sup>TM</sup> 2EC HERBICIDE.

<u> </u>	, , , , , , , , , , , , , , , , , , ,
BROX™ 2EC HERBICIDE	1 pint/A
DROX ZEO HERBIOIDE	1 pillors
+ Accent®	+ 2/3 oz/A
, Accente	_ = +=
+non-ionic surfactant	+ 1 gt/100 gal water (0.25% v/v)
aotan	. 40 .00 30

#### CROP

Apply to field corn preemergence or postemergence up to 36 inches tall. Use drop nozzles when corn is 24 to 36 inches tall. Do not apply this tankmix to sorghum.

### WEEDS

All broadleaf weeds controlled by BROX<sup>TM</sup> 2EC HERBICIDE at 1 or 1 1/2 pints/A 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<sup>TM</sup> 2EC HERBICIDE or Accent® labels that are least restrictive.

+ Accent® + 2/3 oz/A	BROX™ 2EC HERBICIDE	1 1/2 pints/A
1	+ Accent®	+ 2/3 oz/A
+non-ionic surfactant     qv foo gai water (0.25% v/v)	+non-ionic surfactant	<u>+</u> 1 qt/100 gal water (0.25% v <u>/v)</u>

#### CROP

Apply to field corn between the 4 leaf stage up to 36 inches in height. Use drop nozzles when corn is 24 to 36 inches tall. Do not apply this tankmix to sorghum.

### **WEEDS**

All broadleaf weeds controlled by BROX<sup>TM</sup> 2EC HERBICIDE at 1 to 1 1/2 pints/A 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<sup>TM</sup> 2EC HERBICIDE or Accent® labels that are least restrictive.

BROX™ 2EC HERBICIDE	1 pint/A
+ atrazine	+1/2-1 1/5 lbs ai/A
+ Accent®	+ 2/3 oz/A
+non-ionic surfactant	+ 1 qt/100 gai water (0.25% v/v)

#### CROP

Apply to field corn preemergence or postemergence but before the corn is 12 inches tall. Do not apply this tankmix to sorghum.

### **WEEDS**

All broadleaf weeds controlled by BROX<sup>™</sup> 2EC HERBICIDE + atrazine 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<sup>™</sup> 2EC HERBICIDE or Accent® labels that are least restrictive.

BROX™ 2EC HERBICIDE	1 1/2 pint/A
+ atrazine	+ 1/2-1 1/5 lb ai/A
+ Accent®	+ 2/3 oz/A
_+ non-ionic surfactant	+1 qt/100 gal water (0.25% v/v)

#### CROP

Apply to field corn between the 4 leaf stage of crop growth but before the corn is 12 inches tall. Do not apply this tankmix to sorghum.

#### WEEDS

All broadleaf weeds controlled by BROX<sup>TM</sup> 2EC HERBICIDE + atrazine 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<sup>TM</sup> 2EC HERBICIDE or Accent® labels that are least restrictive.

BROX'™2EC HERBICIDE	1 pint/A
) DROX ZEO HERBIOIDE	i biling
+ Beacon®	+ 0.38-0.76 oz/A
, — : : : · · · ·	
+ non-ionic surfactant	+ 1 qt./100 gal water (0.25% v/v)
THOM TO BUILD CONTROLLER	1 qt./100 gai water (0.25/0 v/v)

#### CROP

Apply to field corn from 4 to 20 inches in height. Do not apply this tankmix to sorghum.

#### WEEDS

All broadleaf weeds controlled by BROX<sup>TM</sup> 2EC HERBICIDE at 1 pint/A plus grasses and broadleaves controlled by Beacon®. 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<sup>TM</sup> 2EC HERBICIDE or Beacon® labels that are least restrictive.

BROX™ 2EC HERBICIDE	1 pint/A
+ Stinger®	+ 1/3-2/3 pint/A

### CROP

Apply to field corn after emergence up to 24 inches in height. Do not apply this tankmix to sorghum.

### **WEEDS**

All weeds controlled by BROX<sup>TM</sup> 2EC HERBICIDE at recommended rates of application plus improved burndown of Canada thistle. For optimum performance, apply to Canada thistle at least 4 inches in diameter or height but before bud stage.

BROX™ 2EC HERBICIDE	1 1/2pints/A
+ Stinger®	± 1/3-2/2 pint/Δ

#### CROP

Apply to field corn from 4 leaf stage up to 24 inches in height. Do not apply this tankmix to sorghum.

#### WEEDS

All weeds controlled by BROX<sup>TM</sup> 2EC HERBICIDE at recommended rates of application plus improved burndown of Canada thistle. For optimum performance, apply to Canada thistle at least 4 inches in diameter or height but before bud stage.

BROX™ 2EC HERBICIDE	1 pint/A
+ Atrazine	+ 1/2-1 1/5 lb ai/A
+ Stinger®	+ 1/3-2/3 pint/A
0005	

#### CROP

Apply to field corn after emergence but before corn is 12 inches in height. Do not apply this tankmix to sorghum.

#### WEEDS

All weeds controlled by BROX<sup>TM</sup> 2EC HERBICIDE + atrazine tank mixtures at recommended rates of application plus improved burndown of Canada thistle. For optimum performance, apply to Canada thistle at least 4 inches in diameter or height but before bud stage.

BROX™ 2EC HERBICIDE	1 1/2 pints/A
+ Atrazine	+ 1/2-1 1/5 lb ai/A
- / KIGZIIIC	, 1/2"; 1/3 ID BII/A

### + Stinger®

+ 1/3-2/3 pint/A

#### CROP

Apply to field corn from 4 leaf stage but before corn is 12 inches in height. Do not apply this tankmix to sorghum.

#### WEEDS

All weeds controlled by BROX<sup>™</sup> 2EC HERBICIDE + atrazine tank mixtures at recommended rates of application plus improved burndown of Canada thistle. For optimum performance, apply to Canada thistle at least 4 inches in diameter or height but before bud stage.

Γ	BROX™ 2EC HERBICIDE	3/4-1 pint/A
	+ Pursuit®	+ 4 oz/A
1	+ nonionic surfactant	+ 1 qt/100 gals
L	+ UAN Fertilizer solution	+ 1-2 qts/A

### CROP

Apply this tankmix only on field corn hybrids possessing resistance to Pursuit® herbicide. Contact your seed supplier for further information. Apply this tank mix to corn between the 3 leaf to 8 leaf stage of growth. Do not use crop oil concentrates when applying BROX<sup>TM</sup> 2EC HERBICIDE + Pursuit® tank mixtures.

### **WEEDS**

This tank mix will control all broadleaf weeds listed as controlled by BROX<sup>™</sup> 2EC HERBICIDE at 1 pint/A plus giant foxtail, redroot pigweed, and other grass and broadleaf weeds listed on the Pursuit® label.

BROX™ 2EC HERBICIDE	1 pint/A
+ Bladex® 80W	+ 1 1/2-2 1/2 lb/A
or Bladex® 90DF	+ 1 3/10-2 1/5 lb/A

### CROP

Apply to field corn between the 3 leaf stage but before the fifth leaf is visible in the whorl. Tank mixture with Bladex® or Extrazine® may cause browning, yellowing or stunting of field corn. Do not apply BROX<sup>TM</sup> 2EC HERBICIDE in tank mixture with Bladex® or Extrazine® under cold, wet weather conditions or to weather, storm, disease or insect-stressed field corn. Do not add adjuvants such as surfactants or crop oils or fertilizer solutions as excessive crop injury may occur. Do not apply to popcorn or corn grown for seed.

#### WEEDS

All weeds controlled by BROX<sup>TM</sup> 2EC HERBICIDE at 1 1/2 pints/A plus suppression or control of foxtails and other annual grasses that do not exceed 1 1/2 inches in height.

BROX™ 2EC HERBICIDE	1 pint/A
	· · · · · · · · · · · · · · · · · · ·
+ Extrazine® II DF	+ 1 3/10-2 1/5 lb/A'
LXII AZIII CO II DI	· 1 5/10-2 1/3 IS/A
or Extrazine® 90DF	l i
or Extrazines gode	

### CROP

Apply to field corn between the 3 leaf stage but before the fifth leaf is visible in the whorl. Tank mixture with Bladex® or Extrazine® may cause browning, yellowing or stunting of field corn. Do not apply BROX<sup>TM</sup> 2EC HERBICIDE in tank mixture with Bladex® or Extrazine® under cold, wet weather conditions or to weather, storm, disease or insect-stressed field corn. Do not add adjuvants such as surfactants or crop oils or fertilizer solutions as excessive crop injury may occur. Do not apply to popcorn or corn grown for seed.

### WEEDS

<sup>1</sup>Determine the Bladex® or Extrazine® use rate by consulting the tank mixture product use directions for soil texture, organic matter and previous herbicide application to that crop.

BROX™ 2EC HERBICIDE	Preemergence
+ Roundup®	1-1 1/2 pints/A
<u></u>	+ 1 2/3 pints/A

#### CROP

Apply to corn or sorghum before planting time up until just prior to crop emergence.

#### WEEDS

All weeds controlled by BROX<sup>TM</sup> 2EC HERBICIDE at recommended rates of application plus control of certain grass and perennial weeds. Refer to Roundup® label for rate to use depending on weeds present at time of application.

RESTRICTIONS AND PRECAUTIONS: Corn (Field and Pop), Sorghum (Grain and Forage), and Sudangrass

- BROX<sup>TM</sup> 2EC HERBICIDE does not control grasses. It is recommended that a suitable grass control program
  be used to provide any required grass control.
- Addition of a spray additive or mixture with liquid fertilizers may cause excessive crop leafburn.
- Seed corn producers should consult the respective seed corn company regarding tolerance of certain seed production inbred lines to BROX<sup>TM</sup> 2EC HERBICIDE.
- Do not apply BROX<sup>™</sup> 2EC HERBICIDE to postemergence to seed corn inbreds or popcorn prior to the 3 leaf stage of crop growth as excessive crop leaf burn may occur.
- Do not plant rotational crops until the following season.
- Do not cut crop for feed, fodder or graze within 45 days of application.
- The total cumulative rate should not exceed 2 pints/A per season.
- Postemergence application prior to the 3 leaf growth stage of corn or sorghum may result in increased crop leaf burn.
- Tank mixtures with Accent®/nonionic surfactant or Beacon®/nonionic surfactant may result in increased initial crop leaf burn. Use of crop oil concentrate, nitrogen fertilizer solution or other adjuvants in BROX<sup>™</sup> 2EC HERBICIDE + Accent® or BROX<sup>™</sup> 2EC HERBICIDE + Beacon® tank mixtures may result in further increase in crop leaf burn.
- Special care should be taken when using BROX<sup>™</sup> 2EC HERBICIDE and Banvel®, Clarity®, or 2,4-D tank mixtures to avoid off-target drift to sensitive crops.
- Tank mixtures with 2,4-D, Banvel®, or Clarity® can cause stalk brittleness to field corn. Tank mixtures with 2,4-D and Banvel® can cause stalk brittleness to sorghum. Winds or cultivation may cause breakage while crop is brittle.
- Follow all restrictions and precautions on the label of all products used in tank mixture with BROX<sup>TM</sup> 2EC HERBICIDE.
- Do not apply BROX<sup>™</sup> 2EC HERBICIDE at any rate to sorghum after the preboot stage of growth (growth stage 4) as severe crop injury, including loss of crop yield may result.
- Do not apply the 2 pints/A rate of BROX<sup>TM</sup> 2EC HERBICIDE to sorghum.
- Do not apply the BROX<sup>TM</sup> 2EC HERBICIDE + Pursuit® tankmix except to field corn hybrids known to possess resistance to Pursuit®, or severe crop injury may result.

### SMALL GRAINS WHEAT, BARLEY, OATS, RYE AND TRITICALE

## BROX<sup>TM</sup> 2EC HERBICIDE RECOMMENDATIONS

PRODUCT	RATE
BROX™ 2EC HERBICIDE	1-2 pints/A
OBOD	

#### CROP

Spring seeded wheat, barley and oats. Use in all states except ID, OR, WA, CO, WY, and MT. Apply from emergence to the boot stage.

### **WEEDS**

Apply 1 pint/A to MOST SUSCEPTIBLE and 1 1/2-2 pints/A to SUSCEPTIBLE weeds that do not exceed the 4 leaf stage or 2 inches in height, whichever comes first. If weed forms rosette, apply before weeds exceed 1 inch in diameter.

Use BROX<sup>™</sup> 2EC HERBICIDE at 1 1/2-2 pints/A for control of kochia that is 2-4 inches in height and pigweed that does not exceed the 4 leaf stage or 2 inches in height, whichever comes first.

BROX <sup>™</sup> 2EC HERBICIDE 1 1/2-2 pints/A	

### CROP

Fall-seeded wheat, barley, rye and triticale throughout the U.S. Apply from emergence to the boot stage.

Spring-seeded wheat, barley and oats in ID, OR, WA, CO, WY, and MT. Apply from emergence to the boot stage.

#### MEEDS

Apply to MOST SUSCEPTIBLE weeds (see GENERAL WEED LIST) up to the 8 leaf stage or 4 inches in height, whichever comes first. If weed forms rosette, apply before weeds exceed 2 inches in diameter. Apply to

SUSCEPTIBLE broadleaf weeds up to the 4 leaf stage, 2 inches in height or 1 inch in diameter, whichever comes first.

BROX<sup>™</sup> 2EC HERBICIDE

Chemigation 2 pints/A only

### CROP

Apply to wheat, barley, oats, rye and triticale form emergence to the boot stage. Apply through automated sprinkler irrigation systems with a mechanical transfer loading system only. See MIXING, LOADING AND HANDLING INSTRUCTIONS section for complete details.

### WEEDS

Apply to MOST SUSCEPTIBLE broadleaf weeds up to the 8 leaf stage or 4 inches in height or 2 inches in diameter, whichever comes first. Apply to SUSCEPTIBLE broadleaf weeds up to the 4 leaf stage, 2 inches in height or 1 inch in diameter, whichever comes first. Do not use chemigation for control of weeds that exceed 4 inches in height because control may be unacceptable.

BROX<sup>™</sup> 2EC HERBICIDE

Small Grains Underseeded with Alfalfa 1-1 1/2 pints/A

### CROP

Apply to small grains (wheat, barley, oats, rye or triticale) underseeded with alfalfa after small grains emergence up to the boot stage and when underseeded alfalfa has a minimum of 4 trifoliate leaves. Follow all precautions and restrictions listed under the small grains and seedling alfalfa sections.

### WEEDS

Apply 1 pint/A to MOST SUSCEPTIBLE and 1 1/2 pints/A to SUSCEPTIBLE broadleaf weeds that do not exceed the 4 leaf stage, 2 inches in height or 1 inch in diameter, whichever comes first.

### BROX<sup>™</sup> 2EC HERBICIDE TANK MIXTURE RECOMMENDATIONS

PRODUCT	RATE
BROX™ 2EC HERBICIDE	1-2 pints/A
+ 2,4-D	+ 1/4-1/2 lb ai/A

### CROP

Apply to wheat, barley, oats and rye from the fully tillered but before jointing stage.

#### WEFDS

This tankmix improves control of mustards and pigweed. Apply to weeds up to the 4 leaf stage, 2 inches in height or 1 inch in diameter, whichever comes first.

BROX<sup>™</sup> 2EC HERBICIDE + 2.4-D

3/4-1 pint/A + 1/4-1/2 lb ai/A

#### CROP

Apply to wheat and barley in MN, ND, and SD from the fully tillered but before jointing stage.

#### WEEDS

This tankmix improves control of wild buckweat, redroot pigweed and wild mustard. Apply to weeds up to the 4 leaf stage, 2 inches in height or 1 inch in diameter, whichever comes first.

BROX™ 2EC HERBICIDE + MCPA 1-2 pints/A + 1/4-1/2 lb ai/A

#### CROP

Apply to wheat, barley, oats and rye from the 4 leaf stage but before jointing.

#### WEEDS

This tankmix improves control of mustards, pigweed and kochia. Apply to weeds up to the 4 leaf stage, 2 inches in height or 1 inch in diameter, whichever comes first.

BROX™ 2EC HERBICIDE	1-1 1/2 pints/A
+ Banvel®	+ 1/8-1/4 pint/A

CROP



Fall seeded wheat apply prior to the jointing stage. Spring seeded wheat apply up to the 5 leaf stage.

### WEEDS

This tankmix improves control of broadleaves such as prostrate knotweed. Apply to weeds up to the 4 leaf stage, 2 inches in height or 1 inch in diameter, whichever comes first.

BROX <sup>™</sup> 2EC HERBICIDE	3/4-1 1/2 pints/A
+ Glean ®	+ 1/6-1/3 oz/A
+ nonionic surfactant	+ 1 qt/100 gal water

### CROP

Apply to wheat and barley from the 2 leaf stage but before boot stage. Refer to Glean® label for crop rotation and other restrictions.

### **WEEDS**

This tankmix improves control of broadleaves such as henbit, tansy mustard and pigweed. Apply to weeds up to the 4 leaf stage, 4 inches in height or 2 inches in diameter, whichever comes first.

BROX M 2EC HERBICIDE	3/4-1 1/2 pints/A
+ Ally®	+ 1/10 oz/A
+ nonionic surfactant	+ 1 qt/100 gal water

### CROP

Apply to wheat and bariey from the 2 leaf stage but before the boot stage. Refer to Ally® label for crop rotation and other restrictions.

### **WEEDS**

This tankmix improves control of broadleaves such as tansy mustard and pigweed. Apply to weeds up to the 4 leaf stage, 4 inches in height or 2 inches in diameter, whichever comes first.

BROX <sup>™</sup> 2EC HERBICIDE	3/4-1 1/2 pints/A
+ Finesse®	+ 1/6-1/3 oz/A
+ nonionic surfactant	+ 1 qt/100 gal water

### CROP

Apply to wheat and barley from the 2 leaf stage but before the boot stage. Refer to Finesse® label for crop rotation and other restrictions.

### **WEEDS**

This tankmix improves control of broadleaves such as tansy mustard, henbit, chickweed and pigweed. Apply to weeds up to the 4 leaf stage, 4 inches in height or 2 inches in diameter, whichever comes first.

BROX™ 2EC HERBICIDE	3/4-1 1/2 pints/A
+ Amber®	+ 0.28-0.56 oz/A
+ nonionic surfactant	0.25-0.5% <u>v/v</u>

#### CROP

Apply to wheat and barley after the 3 leaf stage but before the flagleaf is visible. Refer to the Amber® label for crop rotation and other restrictions.

### **WEEDS**

This tankmix improves control of broadleaves such as tansy mustard, henbit, and pigweed. Apply to weeds up to the 4 leaf stage, 4 inches in height or 2 inches in diameter, whichever comes first.

BROX <sup>™</sup> 2EC HERBICIDE	1-1 1/2 pints/A
+ Express®	+ 1/6-1/3 oz/A
+ nonionic surfactant	+ 1 qt/100 gal water

### CROP

Winter wheat. Apply after crop is in the 2 leaf stage but before the flag leaf is visible. Refer to Express ® label for crop rotation and other restrictions.

### **WEEDS**

This tankmix improves control of broadleaf weeds such as redroot pigweed, tansy mustard and suppression of Canada thistle. Apply to annual weeds up to the 4 leaf stage, 4 inches tall or across, whichever comes first, and to Canada thistle 4 to 8 inches tall with 2 to 6 inches of new growth.



BROX <sup>™</sup> 2EC HERBICIDE	3/4-1 1/2 pints/A
+ Express®	+1/6-1/3 oz/A
+ nonionic surfactant	+ 1 qt/100 gal water
CDOB	

### CROP

Spring wheat and barley. Apply after crop is in the 2 leaf stage but before the flag leaf is visible. Refer to Express ® label for crop rotation and other restrictions.

#### **WEEDS**

This tankmix improves control of broadleaf weeds such as redroot pigweed, tansy mustard and suppression of Canada thistle. Apply to annual weeds up to the 4 leaf stage, 4 inches tall or across, whichever comes first, and to Canada thistle 4 to 8 inches tall with 2 to 6 inches of new growth.

BROX™ 2EC HERBICIDE	3/4-1 1/2 pints/A
+ Harmony® Extra	+ 3/10-1/2 oz/A
+ nonionic surfactant	+ 1 qt/100 gal water
OBOB.	

### CROP

Winter wheat. Apply after the 2 leaf stage but before the 3<sup>rd</sup> node is detectable. Refer to the Harmony® Extra label for crop rotation and other restrictions.

Spring wheat and barley. Apply after the 2 leaf stage but before the 1<sup>st</sup> node is detectable. Refer to the Harmony® Extra label for crop rotation and other restrictions.

#### WEEDS

This tankmix improves control of broadleaf weeds such as henbit, chickweed and redroot pigweed. Apply to weeds up to the 4 leaf stage, 4 inches in height or across, whichever comes first.

BROX™ 2EC HERBICIDE	1-1 1/2 pints/A
+ Curtail® or Curtail® M	+ 2 pints/A

### CROP

Apply to wheat and barley after the crop begins to tiller up to the 1st node detectable.

#### WEEDS

This tankmix improves control of kochia, wild buckwheat and Canada thistle. Apply to annual broadleaf weeds up to the 8 leaf stage up to 4 inches in height or 2 inches in diameter and Canada thistle in the rosette to prebud stage.

BROX™ 2EC HERBICIDE	1-1 1/4 pints/A
+ metribuzin	+ 1/8-1/4 lb ai/A
(Sencor® or Lexone®)	

#### CROP

Winter wheat in ID, MT, OR, and WA. Apply in spring after growth has started and secondary roots with a minimum of 3 to 4 tillers have been established but before boot stage. Avoid application when crop has experienced winter kill, frost damage, disease or drought.

### **WEEDS**

This tankmix improves control of broadleaves such as chickweed, filaree, henbit and dogfennel. Apply to weeds that do not exceed 2 inches tall or rosettes of 2 inches in diameter. The higher use rates of both products should be used only in emergency weed situations and if some minor crop injury is acceptable. A recognized authority should be consulted concerning the use of this mixture in your area.

BROX™ 2EC HERBICIDE	1 pint/A
+ diuron	4/10 lb ai/A

#### CROP

Winter wheat and winter barley in ID, OR and WA. Use only in areas where annual rainfall exceeds 16 inches. One fall application after emergence but before soil freezes or in spring as soon as soil thaws.

#### WEEDS

This tankmix improves control of broadleaves such as henbit and gromwell. Apply to weeds before they are 2 inches tall or 2 inches in diameter.

BROX<sup>™</sup> 2EC HERBICIDE 1 pint/A + Tiller® + 1 pint/A

CROP

Spring wheat. Apply when crop begins to tiller (3-4 leaf stage) up to the 6 leaf stage. Refer to the Tiller® label for complete use directions and restrictions.

### **WEEDS**

In addition to broadleaf weeds controlled by BROX<sup>™</sup> 2EC HERBICIDE, this tankmix will control green foxtail from the 2-leaf to 2-tiller stage of growth.

BROX<sup>TM</sup> 2EC HERBICIDE 1-1 1/2 pints/A + Hoelon® 2 2/3 pints/A

### CROP

Spring barley. After emergence but before jointing. Avoid using this tank mixture on barley exposed to cold (lower than 40°F) and/or prolonged wet weather conditions as crop injury may result.

### **WEEDS**

This tankmix will provide wild oat, green foxtail and annual ryegrass control in addition to broadleaves. Apply to grasses 1-3 leaf stage and broadleaves no larger than 4 leaf stage or rosettes of 1.5 inches in diameter.

BROX™ 2EC HERBICIDE 1-1 1/2 pints/A + Hoelon® + 2 2/3-3 1/3 pints/A

CROP

Winter wheat and spring wheat. After emergence but before jointing.

#### WEEDS

This tankmix will provide wild oat, green foxtail and annual ryegrass control in addition to broadleaves. Apply to grasses 1-4 leaf stage and broadleaves no larger than 4 leaf stage or rosettes of 1.5 inches in diameter.

BROX<sup>™</sup> 2EC HERBICIDE 1-2 pints/A + Avenge® + 2 1/2-4 pints/A

CROP

Winter wheat. 4 leaf to tillering stage. Refer to Avenge® label for varietal and other restrictions.

#### WEEDS

This tankmix will provide wild oat control in addition to broadleaves. Apply to wild oats in the 3-5 leaf stage and broadleaves no larger than 4 leaf stage or rosettes of 1.5 inches in diameter. Avenge® use rates per acre are 2.5 pints (1-10 oats per sq. ft.), 3 pints (11-25 oats per sq. ft.) or 4 pints (more than 25 oats per sq. ft.).

BROX<sup>™</sup> 2EC HERBICIDE 1-2 pints/A + Avenge® + 2 1/2-4 pints/A

CROP

Spring wheat. 5-6 leaf stage. Refer to Avenge® label for varietal and other restrictions.

### **WEEDS**

This tankmix will provide wild oat control in addition to broadleaves. Apply to wild oats in the 3-5 leaf stage and broadleaves no larger than 4 leaf stage or rosettes of 1.5 inches in diameter. Avenge® use rates per acre are 2.5 pints (1-10 oats per sq. ft.), 3 pints (11-25 oats per sq. ft.) or 4 pints (more than 25 oats per sq. ft.).

BROX<sup>™</sup> 2EC HERBICIDE 1-2 pints/A + Avenge® + 2 1/2-4 pints/A

CROP

Barley. 2-7 leaf stage.

### **WEEDS**

This tankmix will provide wild oat control in addition to broadleaves. Apply to wild oats in the 3-5 leaf stage and broadleaves no larger than 4 leaf stage or rosettes of 1.5 inches in diameter. Avenge® use rates per acre are 2.5 pints (1-10 oats per sq. ft.), 3 pints (11-25 oats per sq. ft.) or 4 pints (more than 25 oats per sq. ft.).

### RESTRICTIONS AND PRECAUTIONS: Small Grains (Wheat, Barley, Oats, Rye & Triticale)

- Do not cut crop for feed, fodder or graze within 45 days following treatment.
- Do not apply when crops are under moisture stress.
- Do not apply when crop canopy covers the weeds as poor weed control will result.
- Do not apply when underseeded alfalfa is under moisture, temperature, insect or disease stress or has been stressed by other pesticide carryover or application.
- Do not add a surfactant or crop oil when applying to underseeded alfalfa or increased injury will occur.
- Do not cut for feed or graze spring treated underseeded alfalfa within 30 days following treatment.
- Do not cut for feed or graze fall or winter treated underseeded alfalfa until spring, at least 60 days following treatment.
- Reduced weed control may occur when weeds are stressed from lack of moisture or cold temperatures.
- Refer to labels of products used in tank mixture for additional restrictions and precautions.
- Do not plant rotational crops until the following season.
- The total cumulative rate should not exceed 2 pints/A per season.

### FORAGE, FIBER AND SPECIALTY CROPS ALFALFA (SEEDLING)

## BROX<sup>™</sup> 2EC HERBICIDE RECOMMENDATIONS

PRODUCT	RATE
BROX™ 2EC HERBICIDE	1-1 1/2 pints/A
CROP	

Apply in the fall or spring to seedling alfalfa when the majority of the field has a minimum of 4 trifoliate leaves. When alfalfa stand is uneven and conditions favor leafburn, unacceptable crop injury may occur to alfalfa in the 2nd trifoliate or smaller stage of growth. If you are unsure of growth stage conditions, contact your local extension service. In the states of CA, WA, OR, ID, MT, WY, CO, UT, NV, AZ, NM, and the western halves of ND, SD, NE, and KS, BROXT 2EC HERBICIDE application made when temperatures are expected to exceed 80°F at and 3 days following application can result in unacceptable crop injury. In the remaining states BROX™ 2EC HERBICIDE application made when temperatures are expected to exceed 70°F at and 3 days following application can result in unacceptable crop injury.

### WEEDS

Apply 1 pint/A to MOST SUSCEPIBLE broadleaf weeds and 1 1/2 pints/A to SUSCEPTIBLE broadleaf weeds (See GENERAL WEED LIST) when weeds do not exceed 4 leaf stage, 2 inches in height or 1 inch in diameter, whichever comes first. BROX<sup>TM</sup> 2EC HERBICIDE will not adequately control over-wintered pennycress, henbit and mustards.

BROX'™ 2EC HERBICIDE	Chemigation Only
	2 pints/A

### CROP

Apply to seedling alfalfa with a minimum of 2 trifoliate leaves. Apply through automated sprinkler irrigation systems with a mechanical transfer loading system only. See MIXING, LOADING AND HANDLING INSTRUCTIONS section for complete details. BROX<sup>TM</sup> 2EC HERBICIDE applications made when temperatures are expected to exceed 85° F at and 3 days following application can result in unacceptable crop injury.

### WEEDS

Apply to MOST SUSCEPTIBLE broadleaf weeds up to the 8 leaf stage, 4 inches in height or 2 inches in diameter, whichever comes first. Apply to SUSCEPTIBLE broadleaf weeds up to the 4 leaf stage, 2 inches in height or 1 inch in diameter, whichever comes first.

### BROX<sup>™</sup> 2EC HERBICIDE TANK MIXTURE RECOMMENDATIONS

PRODUCT	RATE
BROX™ 2EC HERBICIDE	1 pint/A
+ Butyrac® 200 (2,4-DB)	+ 1 quart/A

### CROP

Apply in the fall or spring to seedling alfalfa when the majority of the field has a minimum of 4 trifoliate leaves. When alfalfa stand is uneven and conditions favor leafburn unacceptable crop injury may occur to alfalfa in the 2 trifoliate or smaller stage of growth. If you are unsure of growth stage conditions, contact your local extension service. In the states of CA, WA, OR, ID, MT, WY, CO, UT, NV, AZ, NM, and the western halves of ND, SD, NE, and KS, BROX<sup>TM</sup> 2EC HERBICIDE application made when temperatures are expected to exceed 80°F at and 3 days following application can result in unacceptable crop injury. In the remaining states BROX<sup>TM</sup> 2EC HERBICIDE application made when temperatures are expected to exceed 70°F at and 3 days following application can result in unacceptable crop injury. Rainfall or overhead irrigation within 7-10 days following a Butyrac® 200 application can cause unacceptable crop injury.

### **WEEDS**

This tankmix improves control of pigweed (sp.), kochia, and tansy mustard. Apply then weeds do not exceed the 4 leaf stage, 2 inches in height or 1 inch in diameter, whichever comes first. BROX<sup>TM</sup> 2EC HERBICIDE + Butyrac® 200 at 2 lb ai/gal tank mixtures will not adequately control over-wintered pennycress, henbit and mustards.

### RESTRICTIONS AND PRECAUTIONS: ALFALFA (Seedling)

- Crop leafburn can occur following BROX<sup>TM</sup> 2EC HERBICIDE application. Warm, humid conditions may enhance leafburn. New crop growth will not be affected. Alfalfa yield should not be reduced although total biomass tonnage may decrease compared to a weedy field due to weed removal.
- Do not apply when alfalfa is under moisture, temperature, insect or disease stress or has been stressed by other pesticide carryover or application.
- Do not add a surfactant or crop oil unless specified in the use directions because increased alfalfa injury will occur.
- Do not cut for feed or graze spring treated alfalfa within 30 days following treatment.
- Do not cut for feed or graze fall or winter treated alfalfa until spring, at least 60 days following treatment.
- The total cumulative rate of BROX<sup>TM</sup> 2EC HERBICIDE should not exceed 2 pints/A per season.
- The use of Eptam® preemergence may enhance crop leaf burn from postemergence application of BROX<sup>TM</sup> 2EC HERBICIDE and should be considered prior to using BROX<sup>TM</sup> 2EC HERBICIDE.
- Follow all restrictions and precautions on the tank mixture product label when a BROX<sup>TM</sup> 2EC HERBICIDE tank mixture is used
- Tank mixture with 2,4-DB may result in unacceptable crop leaf burn especially under warm, humid weather conditions.
- BROX<sup>™</sup> 2EC HERBICIDE alone can be applied to seedling alfalfa that has been underseeded into small grains that include wheat, barley, oats, rye and triticale. See application restrictions under the SMALL GRAINS section.
- Rainfall or overhead irrigation within 7-10 days following Butyrac® 200 application can cause unacceptable cropinjury.

# FLAX (*Linum usitatissimum* only) BROX<sup>TM</sup> 2EC HERBICIDE RECOMMENDATIONS

PRODUCT	RATE
BROX <sup>™</sup> 2EC HERBICIDE	1 pint/A
CDOD	

#### CROF

Apply to flax that is 2 to 8 inches in height. Do not apply BROX<sup>TM</sup> 2EC HERBICIDE to flax during or after the bud stage.

#### WEEDS

Apply to MOST SUSCEPTIBLE weeds that do not exceed the 4 leaf stage, 2 inches in height or 1 inch in diameter, whichever comes first.

## BROX<sup>™</sup> 2EC HERBICIDE TANK MIXTURE RECOMMENDATIONS

BROX <sup>™</sup> 2EC HERBICIDE + Poast®	1 pint/A + 1-1 1/2 pints/A
+ Crop Oil Concentrate	+ 2 pints/A
or Dash®	or 2 pints/A

Apply to flax that is 2 to 8 inches in height. Do not apply this tankmix to flax during or after the bud stage, or within 75 days of harvest.

This tankmix will control broadleaf weeds plus grassy weeds listed on the Poast® label. Apply to MOST SUSCEPTIBLE broadleaf weeds (see list on the BROX<sup>TM</sup> 2EC HERBICIDE label) that do not exceed the 4 leaf stage, 2 inches in height or 1 inch in diameter, whichever comes first.

### RESTRICTIONS AND PRECAUTIONS: FLAX (Linum usitatissimum only)

- Do not apply if temperatures are expected to exceed 85° F at or 3 days following application or crop injury may
- Unacceptable crop injury may occur following BROX™ 2EC HERBICIDE application to flax grown on high organic, peat type soils.
- Application under high humidity conditions can injure flax.
- Unless otherwise instructed, do not apply BROX<sup>TM</sup> 2EC HERBICIDE to flax with crop oil concentrate, surfactants, or nitrogen solutions.
- Do not use on ornamental flax.
- Follow all precautions, directions and restrictions on the Poast® label when using this tank mixture with BROX<sup>TM</sup> 2EC HERBICIDE.

### GARLIC BROX<sup>™</sup> 2EC HERBICIDE RECOMMENDATIONS

RATE
1 1/2-2 pints/A
eds up to the 4 leaf stage, 2 inches in height or 1 inch
1 1/2-2pints/A

\*May be harvested 60 days after treatment.

### WEEDS

Apply to MOST SUSCEPTIBLE and SUSCEPTIBLE broadleaf weeds up to the 4 leaf stage, 2 inches in height or 1 inch in diameter, whichever comes first.

### RESTRICTIONS AND PRECAUTIONS: GARLIC

- Use a minimum of 20 gallons per acre for ground application.
- BROX<sup>TM</sup> 2EC HERBICIDE can be applied through automated sprinkler irrigation application.
- Do not harvest within 112 days following treatment (except garlic grown in muck soils in the Northeastern United States).

### MINT (ESTABLISHED PEPPERMINT AND SPEARMINT ONLY BROX<sup>™</sup> 2EC HERBICIDE RECOMMENDATIONS

BROX<sup>™</sup> 2EC HERBICIDE

1-1 1/2 pints/A

CROP

Apply to dormant or actively growing established peppermint or spearmint crops that exhibit good vigor.

Apply to MOST SUSCEPTIBLE and SUSCEPTIBLE broadleaf weeds that do not exceed the 4 leaf stage, 2 inches in height or 1 inch in diameter, whichever comes first.

### **RESTRICTIONS AND PRECAUTIONS: MINT**

- Application made to mint when temperatures are expected to exceed 70° F at or 5 days following application may result in unacceptable crop injury. This injury is more likely to occur following BROXTM 2EC HERBICIDE application in the spring.
- Do not apply to mint growing under adverse conditions including diseases, insects, nematodes, high salt content soil, drought, excessive moisture, winter damage or other environmental stress.
- Application of BROX<sup>™</sup> 2EC HERBICIDE to mint should not be made within two weeks of a Sinbar® application or unacceptable crop injury may result.
- Do not use in spring on newly established mint. Fall applications to spring planted mint should be acceptable if the crop is well established.
- BROX<sup>TM</sup> 2EC HERBICIDE can cause temporary stunting and discoloration of the mint particularly from the spring application. However, the injury symptoms are only temporary and have not caused yield reduction.
- Use of BROX<sup>TM</sup> 2EC HERBICIDE in combination with other products may increase temporary stunting and discoloration.
- Do not harvest within 70 days following treatment.
- Do not apply more than 6 pints total product per acre in a single growing season.

### **ONIONS** BROX<sup>™</sup> 2EC HERBICIDE RECOMMENDATIONS

PRODUCT	RATE
BRÖX™ 2EC HERBICIDE	Preemergence 1-1 1/2 pints/A
CROP	

Preemergence use is restricted to onions grown east of the Mississippi River only on muck soils containing greater than 10% organic matter. Apply at least 3 to 4 days prior to emergence. Rainfall or irrigation within 2 days following preemergence applications or 3 days prior to crop emergence may result in unacceptable crop injury. Preemergence applications can be applied using either ground or aerial equipment.

### WEEDS

Apply BROXTM 2EC HERBICIDE at 1 pint/A to control MOST SUSCEPTIBLE weeds and 1 1/2 pints/A for SUSCEPTIBLE weeds. Weeds should not exceed the 4 leaf stage, 2 inches in height or 1 inch in diameter, whichever comes first.

BROX™ 2EC HERBICIDE	Postemergence
BROX ZEC RERBICIDE	Postemergence
i	1-1 1/2 pints/A
	1-1 1/2 pints/A

### CROP

Apply only to onions which have 2 to 5 true leaves. Use at least 50-70 gal water per acre and apply by ground equipment or chemiqation only. Water volume is important—Concentrated sprays kill onions. Thorough and uniform coverage is necessary for good weed control.

In onion-producing areas, certain environmental conditions reduce development of waxy coating on the onion leaves, thus increasing the possibility of injury. Dry soil, dry onion foliage, high light intensity low humidity, and high temperatures tend to increase the waxy coating on onion leaves and thus reducing chances for injury. It is essential that the soil and onion foliage be dry at the time of application. Humidity should be low and dew should be off the



### plants.

### **WEEDS**

Apply BROX<sup>™</sup> 2EC HERBICIDE at 1 pint/A to control MOST SUSCEPTIBLE weeds and 1 1/2 pints/A for SUSCEPTIBLE weeds. Weeds should not exceed the 4 leaf stage, 2 inches in height or 1 inch in diameter, whichever comes first.

### **RESTRICTIONS AND PRECAUTIONS: ONIONS**

- The sensitivity of onions to BROX<sup>™</sup> 2EC HERBICIDE varies with the variety and environmental conditions. Therefore even if all the label directions are followed, BROX<sup>™</sup> 2EC HERBICIDE application still may cause injury to onions under certain circumstances.
- Do not irrigate onions that have received a preemegence application of BROX<sup>TM</sup> 2EC HERBICIDE for 2 days following application or within 3 days of crop emergence.
- Do not apply BROX<sup>TM</sup> 2EC HERBICIDE preemergence to onions grown west of the Mississippi River.
- Do not use BROX<sup>TM</sup> 2EC HERBICIDE on onions grown under low light intensity, in areas such as Oregon, west of the Cascades.
- Do not treat onions damaged by sand, insects, or diseases.
- Do not apply postemergence applications of BROX<sup>TM</sup> 2EC HERBICIDE to onions with aerial equipment.
- Do not add surfactant.

# GRASS CROPS CONSERVATION RESERVE PROGRAM (CRP) AREAS

### BROX<sup>™</sup> 2EC HERBICIDE RECOMMENDATIONS

PRODUCT	RATE
BROX™ 2EC HERBICIDE	1-2 pints/A

#### CROP

Apply to grasses after emergence. If alfalfa is planted, apply after the 4 trifoliate leaf stage.

### **WEEDS**

Apply to MOST SUSCEPTIBLE and SUSCEPTIBLE broadleaf weeds up to the 4 leaf stage, 2 inches in height or 1 inch in diameter, whichever comes first.

### BROX<sup>™</sup> 2EC HERBICIDE TANK MIXTURE RECOMMENDATIONS

PRODUCT	RATE .
*BROX™ 2EC HERBICIDE	1-2 pints/A
+ MCPA (4 lb ai/gal)	+ 1/4-1/2 pint/A

#### CROP

Apply to CRP areas after grasses have reached the 3 leaf stage. Do not use this tank mixture in areas where alfalfa or other legumes have been planted.

#### **WEEDS**

This tankmix improves control of mustards, pigweed, and kochia. Apply up to the 4 leaf stage, 2 inches in height or 1 inch in diameter, whichever comes first.

### RESTRICTIONS AND PRECAUTIONS: CRP AREAS

- Do not allow livestock to graze in treated areas or feed treated grass and forage to livestock.
- Do not add spray adjuvants or fluid fertilizers when applying BROX<sup>™</sup> 2EC HERBICIDE to CRP areas planted with alfalfa or other legumes.
- Do not apply BROX<sup>TM</sup> 2EC HERBICIDE to CRP areas planted with alfalfa if temperatures are expected to exceed 80°F or severe crop injury may occur. If legumes other than alfalfa have been planted, severe crop injury may occur at any application temperature.



 Do not apply more than 1 1/2 pints/A of BROX<sup>™</sup> 2EC HERBICIDE to CRP areas that are underseeded with alfalfa.

# GRASSES GROWN FOR SEED OR SOD PRODUCTION SEEDLING AND ESTABLISHED GRASSES BROX<sup>™</sup> 2EC HERBICIDE RECOMMENDATIONS

BROX<sup>™</sup> 2EC HERBICIDE 1-2 pints/A or 0.6-0.75 fl oz/1000 sq ft

#### CROP

Apply to established and newly seeded grasses grown for seed or sod production before the boot stage. Established grasses tolerant to BROX<sup>TM</sup> 2EC HERBICIDE include Bentgrasses, Kentucky Bluegrass, Fescues, Ryegrass, Bermudagrass, St. Augustinegrass and Zoysiagrass. BROX<sup>TM</sup> 2EC HERBICIDE may also be used on seedling grasses such as Merion, Park, Delta, or common Kentucky Bluegrasses, Pennlawn, Chewings, Illahee or Alta Fescues, Orchardgrass, Highland, Seaside or Astoria Bentgrasses, perennial Ryegrasses, Bahiagrass and Zoysiagrass.

#### WEEDS

Refer to the GENERAL WEED LIST for a listing of susceptible broadleaf weeds.

Optimal control will be attained when weeds are treated in the seedling stage (less than 4 leaf stage, 2 inches in height, or 1 inch in diameter).

### RESTRICTIONS AND PRECAUTIONS: GRASSES GROWN FOR SEED OR SOD PRODUCTION

- Do not allow livestock to graze in treated areas or feed treated grasses to livestock.
- Do not apply BROX<sup>TM</sup> 2EC HERBICIDE to grasses grown for seed or sod production with backpack or hand-held application equipment.

### NON-RESIDENTIAL TURFGRASS BROX<sup>™</sup> 2EC HERBICIDE RECOMMENDATIONS Seedling and Established Non-Residential Turfgrass

PRODUCT	RATE
BROX™ 2EC HERBICIDE	1-2 pints/A (or 0.6-0.75 fl oz/1000 sq ft)

#### CROP

Apply to established and newly seeded non-residential turfgrass when weeds are small and actively growing. Established turfgrasses that are tolerant to BROX<sup>TM</sup> 2EC HERBICIDE include Bentgrasses, Kentucky Bluegrass, Fescues, Ryegrass, Bermudagrass, St. Augustinegrass and Zoysiagrass. BROX<sup>TM</sup> 2EC HERBICIDE may also be used on seedling grasses such as Merion, Park, Delta, or common Kentucky Bluegrasses, Pennlawn, Chewings, Illahee or Alta Fescues, Orchardgrass, Highland, Seaside or Astoria Bentgrasses, perennial Ryegrasses, Bahiagrass and Zoysiagrass.

#### WEEDS

Refer to the GENERAL WEED LIST for a listing of susceptible broadleaf weeds.

Optimal control will be attained when weeds are treated in the seedling stage (less than 4 leaf stage, 2 inches in height, or 1 inch in diameter).

### RESTRICTIONS AND PRECAUTIONS: NON-RESIDENTIAL TURFGRASSES

- Do not allow livestock to graze in treated areas or feed treated grasses to livestock.
- Do not apply BROX<sup>™</sup> 2EC HERBICIDE to non-residential turf with backpack or hand-held application equipment.

### BROX<sup>™</sup> 2EC HERBICIDE TANK MIXTURE RECOMMENDATIONS Established Non-Residential Turfgrass

BROX <sup>™</sup> 2EC HERBICIDE	2 pints/A (0.75 fl oz/1000 sq ft)
+ Weedone® DPC Ester	+ 3-4 pints/A (1.125 to 1.5 fl oz/1000 sq ft)

### CROP

Apply to established non-residential turfgrass only. This treatment may cause injury to bentgrasses, St. Augustinegrass, Centipedegrass, and Carpetgrass.

### **WEEDS**

All weed species listed in the GENERAL WEED LIST plus the following species: Dandelion, plantains, ground ivy, red clover, white clover, hop clover, common chickweed, prostrate spurge, oxalis, and knotweed.

Optimal control will be attained when weeds are treated in the seedling stage (less that 4 leaf stage, 2 inches in height, or 1 inch in diameter).

PRODUCT	RATE
BROX <sup>™</sup> 2EC HERBICIDE	2 pints/A (0.75 fl oz/1000 sq ft)
+ MCPP	+ 1.0 lb ai/A (0.025 lb ai/1000 sq ft)

### CROP

Apply to established non-residential turfgrass only. This treatment is not recommended for use on St. Augustinegrass or Centipedegrass.

### WEEDS

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All weed species previously listed in the GENERAL WEED LIST plus the following species: Red clover, white clover, common chickweed, mouseear chickweed, ground ivy, stitchwort, knotweed, and prostrate spurge.

Optimal control will be attained when weeds are treated in the seedling stage (less that 4 leaf stage, 2 inches in height, or 1 inch in diameter).

BROX <sup>™</sup> 2EC HERBICIDE	2 pints/A (0.75 fi oz/1000 sq ft)
+ Dicamba	+ 0.125-0.25 lb ai/A (0.006-0.012 lb ai/1000 sq ft)

### CROP

Apply to established non-residential turfgrass only. This treatment may cause injury to Bentgrasses, St. Augustinegrass, Centipedegrass, and Carpetgrass.

### **WEEDS**

All weed species previously listed in the GENERAL WEED LIST plus the following species: Red clover, white clover, common chickweed, mouseear chickweed, pepperweed, and knotweed.

Optimal control will be attained when weeds are treated in the seedling stage (less that 4 leaf stage, 2 inches in height, or 1 inch in diameter).

DDOVIM OF CHERDIOIDE	0 -i-t-/A /0 75 fl a-/4000 an fl)
BROX™ 2EC HERBICIDE	2 pints/A (0.75 fl oz/1000 sq ft)
+ MCPP	+ 0.5-1.0 lb/ai/A (0.0125-0.025 lb ai/1000 sq ft)
+ Dicamba	+ 0.125-0.25 lb ai/A (0.003-0.006 lb ai/1000 sq ft)

### CROP

Apply to established non-residential turfgrass only. This treatment is not recommended for use on St. Augustinegrass or Centipedegrass.

#### WEEDS

All weed species previously listed in the GENERAL WEED LIST for BROX<sup>TM</sup> 2EC HERBICIDE and BROX<sup>TM</sup> 2EC HERBICIDE/Dicamba tank mixtures plus the following species: Dandelion and plantains.

Optimal control will be attained when weeds are treated in the seedling stage (less that 4 leaf stage, 2 inches in height, or 1 inch in diameter).

BROX™ 2EC HERBICIDE	2 pints/A (0.75 fl oz/1000 sq ft)
+ MCPP	+ 0.5-1.0 lb ai/A (0.0125-0.025 lb ai/1000 sq ft)
+ 2,4-D	+ 0.5-1.0 lb ai/A (0.0125-0.025 lb ai/1000 sq ft)
202	

### CROP

Apply to established non-residential turfgrass only. This treatment is not recommended for use on St. Augustinegrass

or Centipedegrass.

### **WEEDS**

All weed species previously listed in the GENERAL WEED LIST for BROX<sup>™</sup> 2EC HERBICIDE and BROX<sup>™</sup> 2EC HERBICIDE/2,4-D tank mixtures plus the following species: Dandelion, plantains, red sorrell, knotweed.

Optimal control will be attained when weeds are treated in the seedling stage (less that 4 leaf stage, 2 inches in height, or 1 inch in diameter).

Optimal control of red sorrell will, require the high use rate of 2,4-D or MCPP.

### RESTRICTIONS AND PRECAUTIONS: NON-RESIDENTIAL TURFGRASSES

- BROX<sup>™</sup> 2EC HERBICIDE/Weedone® DPC tankmixes are not allowed in California.
- Do not allow livestock to graze in treated areas or feed treated grasses to livestock.
- Do not apply BROX<sup>™</sup> 2EC HERBICIDE to non-residential turf with backpack or hand-held application equipment.

# NON-CROPLAND AND INDUSTRIAL SITES BROX<sup>™</sup> 2EC HERBICIDE RECOMMENDATIONS

PRODUCT	RATE
BROX™ 2EC HERBICIDE	1-2 pints/A
	or 0.6-0.75 fl oz/1000 sq ft

#### CROP

Apply to non-cropland and industrial sites when weeds have emerged and are actively growing.

#### WEFDS

Refer to the GENERAL WEED LIST for a listing of susceptible broadleaf weeds. Use adequate spray volumes to ensure thorough coverage.

Optimal control will be attained when weeds are treated in the seedling stage (less than 4 leaf stage, 2 inches in height, or 1 inch in diameter).

### RESTRICTIONS AND PRECAUTIONS: NON-CROPLAND AND INDUSTRIAL SITES

- Do not allow livestock to graze in treated areas or feed treated plant material to livestock.
- Addition of surfactant or crop oil concentrate may improve burndown of broadleaf weeds under cool, dry conditions.
- Do not apply BROX<sup>™</sup> 2EC HERBICIDE to non-cropland and industrial sites with backpack or hand-held application equipment.

### WARRANTY LIMITATIONS AND DISCLAIMER

Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the DIRECTIONS FOR USE when used under normal conditions. THIS IS THE ONLY WARRANTY MADE ON THIS PRODUCT. NO OTHER EXPRESS AND NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE OUTSIDE OF THIS LABEL. Therefore, neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), under abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes, etc.) or under conditions not reasonably foreseeable to or beyond the control of seller.

When buyer or user suffers losses or damages resulting from the use or handling of this product (including claims based on contract, negligence, strict liability, or other legal theories), buyer or user must promptly notify seller, in writing, of any claims to be eligible to receive either remedy given below. The EXCLUSIVE REMEDY OF THE BUYER OR USER and the LIMIT OF LIABILITY of seller will be one of the following, at the election of the seller:

- 1. Refund of purchase price paid by buyer or user for product bought or
- 2. Replacement of amount of product used.

The seller will not be liable for consequential or incidental damages or losses.

The terms of this Warranty Limitations and Disclaimer cannot be varied by any written or verbal statements or agreements. Any employee or sales agent of the seller is not authorized to vary or exceed the terms of this Warranty Limitations and Disclaimer in any manner.

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