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70122-1

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SEP 9 1998

1 of 39.



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number:
70122-1

Date of Issuance:
2 September 1998

NOTICE OF PESTICIDE:
 Registration
 Reregistration

Term of Issuance: Conditional

Name of Pesticide Product:
ALSAN Bromoxynil 2EC

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

ALSAN Research
Alice Walker, Ph.D.
785 Country Club Drive
Senatobia, MS 38668

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 its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. Because of concerns expressed by Rhone-Poulenc that Alsan is not purchasing technical bromoxynil from Rhone-Poulenc as stated in the Confidential Statement of Formula (CSF), we are registering Alsan Bromoxynil with the condition that you provide us with the following three information items:
 - a. the registration number and establishment number of your technical bromoxynil supplier.
 - b. the name and address of the entity from which you purchase your technical bromoxynil.
 - c. a copy of the bill of sale for the technical bromoxynil purchase.
3. Submit two copies of the revised final printed label for the record.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Signature of Approving Official:

Date:

Sept 9, 1998

ACCEPTED *2/3/98*
with COMMENTS
In EPA Letter Dated:
SEP 9 1998

ALSAN

BROMOXYNIL 2EC

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.
70122-1

**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-hydroxybenzotrile)	33.4%
INERT INGREDIENTS:	66.6%
TOTAL	100.0%

Contains xylene range/petroleum distillates.
*Bromoxynil octanoate equivalent to 22.9% of bromoxynil or not less than 2.0 pounds
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).

STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.

IF SWALLOWED: Call a physician or Poison Control Center. Do not induce vomiting. Drink promptly a large quantity of milk, egg whites, gelatin solution, or, if these are not available, drink large quantities of water. Avoid alcohol.

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration preferably mouth-to-mouth. Get medical attention.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention.

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

See additional Precautionary Statements inside booklet.

EPA Reg. No. 70122-1

EPA Est. No. 42750-MO-1

Manufactured by:

ALSAN RESEARCH
Ankeny, Iowa 50021

NET CONTENTS
___ Gals. (___ Liters)

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

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
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 long-sleeved shirt and long pants, chemical resistant gloves such as barrier laminate or viton gloves, shoes plus socks, and protective eyewear.

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, 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.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

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, and protective eyewear.

STORAGE AND DISPOSAL

STORAGE

Do not contaminate water, food, or feed by storage or disposal. Do not store near fertilizers or seeds. Store at temperatures above 3° F. If allowed to freeze, remix before using.

DISPOSAL

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 BROMOXYNIL 2EC. 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

BROMOXYNIL 2EC is formulated as a emulsifiable concentrate of octanoic acid ester of bromoxynil containing the equivalent of 2 pounds of bromoxynil per gallon.

BROMOXYNIL 2EC 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 BROMOXYNIL 2EC is applied to actively growing weed seedlings. BROMOXYNIL 2EC is primarily a contact herbicide, therefore thorough coverage of the weed seedlings is essential for optimum control.

BROMOXYNIL 2EC 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 BROMOXYNIL 2EC 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.

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

TANK MIXTURES: BROMOXYNIL 2EC 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 BROMOXYNIL 2EC 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 BROMOXYNIL 2EC and add water to the spray tank to the desired level. If tankmixing with other product types, add the BROMOXYNIL 2EC 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 BROMOXYNIL 2EC: The following foliar insecticides are compatible with BROMOXYNIL 2EC Herbicide as tank mixtures:

INSECTICIDE COMMON NAME	TRADE NAME	FORMULATION
Diazinon	Various	Emulsifiable Concentrate
Dimethoate	Various	Emulsifiable Concentrate
Trichlorfon	Dylox®	Soluble Powder
Carbofuran	Furadan®	Flowable
Chlorpyrifos	Lorsban®	Emulsifiable Concentrate
Malathion	Various	Emulsifiable Concentrate
Oxydemeton-methyl	Metasystox-R®	Sprayable Concentrate
Permethrin	Pounce®	Emulsifiable Concentrate
Fenvalerate	Pydrin®	Emulsifiable Concentrate
Carbaryl	Sevin®	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 BROMOXYNIL 2EC.

SPRAYABLE LIQUID FERTILIZERS AND SPRAY ADDITIVES: BROMOXYNIL 2EC can be applied in combination with sprayable liquid 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 BROMOXYNIL 2EC. 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 BROMOXYNIL 2EC is evenly mixed with the fertilizer. Leaf burn may occur when BROMOXYNIL 2EC 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 BROMOXYNIL 2EC. Do not apply fertilizers or spray additives with BROMOXYNIL 2EC if leaf burn is a major concern due to environmental conditions, crop or variety sensitivity to BROMOXYNIL 2EC. Do not apply BROMOXYNIL 2EC in combination with fertilizers or spray additives if restricted under the individual crop use directions.

APPLICATION PROCEDURES

BROMOXYNIL 2EC can be applied to registered use areas by ground, aerial and sprinkler irrigation equipment. The following provides recommended methods of application for each crop.

CROP	TYPE OF APPLICATION EQUIPMENT		
	GROUND	AERIAL	SPRINKLER IRRIGATION
Corn (field & pop)	x	x	x
Sorghum (grain & forage), and Sudangrass	x	x	x
Small grains	x	x	x
Alfalfa (seedling)	x	x	x
Flax	x	x	
Garlic			
Mint	x		x

CROP	TYPE OF APPLICATION EQUIPMENT		
	GROUND	AERIAL	SPRINKLER IRRIGATION
Grass grown for seed or sod production	x	x	
Non-residential turfgrass	x	x	

(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 coarse spray droplets may not provide adequate coverage of the weeds to ensure optimum control. Raindrop® nozzles are not recommended as weed control with BROMOXYNIL 2EC 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

BROMOXYNIL 2EC can be applied through sprinkler irrigation systems to small grains, field corn, popcorn, grain sorghum, onions, garlic, and seedling alfalfa.

Apply BROMOXYNIL 2EC 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 BROMOXYNIL 2EC.
9. BROMOXYNIL 2EC should be applied continuously for the duration of the water application with center pivot and continuous lateral move systems. Applications of BROMOXYNIL 2EC 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 BROMOXYNIL 2EC is diluted in the supply tank, fill the tank with half of the water amount desired, add BROMOXYNIL 2EC and then add remaining water amount with agitation. Always dilute with at least 4 parts water to 1 part BROMOXYNIL 2EC.
13. Start the sprinklers and then inject BROMOXYNIL 2EC into the irrigation line. BROMOXYNIL 2EC 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 BROMOXYNIL 2EC 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 BROMOXYNIL 2EC applications may place target weeds under stress, resulting in erratic weed control. Whenever BROMOXYNIL 2EC is being utilized in an

overall weed control program, plan to postpone any anticipated cultivations until 5-7 days after application to ensure best performance.

GENERAL WEED LIST

Postemergence application of BROMOXYNIL 2EC 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	<i>Sonchus oleraceus</i>	Buffalobur	<i>Solanum rostratum</i>
Black Nightshade	<i>Solanum nigrum</i>	Burcucumber	<i>Sicyos angulatus</i>
Blue Mustard	<i>Chorispora tenella</i>	Common Groundsel	<i>Senecio vulgaris</i>
Bristly Starbur	<i>Acanthospermum hispidum</i>	Common ragweed	<i>Ambrosia artemisiifolia</i>
Coast Fiddleneck	<i>Amsinckia intermedia</i>	Corn Chamomile	<i>Anthemis arvensis</i>
Common Cocklebur	<i>Xanthium strumarium</i>	Corn Gromwell	<i>Lithospermum arvense</i>
Common Lambsquarters	<i>Chenopodium album</i>	Cow Cockle	<i>Saponaria vaccaria</i>
Common Tarweed	<i>Hemizonia congesta</i>	Giant Ragweed	<i>Ambrosia trifida</i>
Cutleaf Nightshade	<i>Solanum triflorum</i>	Hemp Sesbania	<i>Sesbania exaltata</i>
Eastern Black Nightshade	<i>Solanum ptycanthum</i>	Ivyleaf Morningglory	<i>Ipomoea hederacea</i>
Field Pennycress	<i>Thlaspi arvense</i>	Knawel	<i>Scleranthus annuus</i>
Green Smartweed	<i>Polygonum scabrum</i>	² Kochia	<i>Kochia scoparia</i>
Hairy Nightshade	<i>Solanum sarachoides</i>	London Rocket	<i>Sisymbrium irio</i>
Jimsonweed	<i>Datura stramonium</i>	Mayweed	<i>Anthemis cotula</i>
Ladysthumb	<i>Polygonum persicaria</i>	Pitted Morningglory	<i>Ipomoea lacunosa</i>
Pennsylvania Smartweed	<i>Polygonum pennsylvanicum</i>	Prostrate Knotweed	<i>Polygonum aviculare</i>
Pepperweed spp.	(annual) (<i>Lepidium spp.</i>)	Puncturevine	<i>Tribulus terrestris</i>
Shepherdspurse	<i>Capsella bursa-pastoris</i>	² Redroot Pigweed	<i>Amaranthus retroflexus</i>
Silverleaf Nightshade	<i>Solanum elaeagnifolium</i>	Russian Thistle	<i>Salsola kali</i>
Tartary Buckwheat	<i>Fagopyrum tataricum</i>	² Spiny Pigweed	<i>Amaranthus spinosus</i>
¹ Sunflower	<i>Helianthus annuus</i>	Tall Morningglory	<i>Ipomoea Purpurea</i>
Wild Buckwheat	<i>Polygonum convolvulus</i>	² Tall Waterhemp	<i>Amaranthus tuberculatus</i>
		Tumble Mustard	<i>Sisymbrium altissimum</i>
		Velvetleaf	<i>Abutilon theophrasti</i>
		Venice Mallow	<i>Hibiscus trionum</i>
		Wild Mustard	<i>Sinapis arvensis</i>
		Wild Radish	<i>Raphanus raphanistrum</i>

¹For control of sunflower, delay application until first emerging sunflower seedlings are 4 inches in height.

²For effective control, these weeds should not exceed the 4-leaf stage or 2 inches in height, whichever comes first.

WEED SUPPRESSION

BROMOXYNIL 2EC 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

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

BROMOXYNIL 2EC RECOMMENDATIONS

PRODUCT	RATE
BROMOXYNIL 2EC	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—BROMOXYNIL 2EC for list of weeds and corresponding stages of growth that are controlled by BROMOXYNIL 2EC at recommended rates of application. For control of additional weeds not listed in the rate table see the GENERAL WEED LIST.

PRODUCT	RATE
BROMOXYNIL 2EC	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—BROMOXYNIL 2EC for list of weeds and corresponding stages of growth that are controlled by BROMOXYNIL 2EC at recommended rates of application. For control of additional weeds not listed in the rate table see the GENERAL WEED LIST.

BROMOXYNIL 2EC 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—BROMOXYNIL 2EC for list of weeds and corresponding stages of growth that are controlled by BROMOXYNIL 2EC at recommended rates of application. For control of additional weeds not listed in the rate table see the GENERAL WEED LIST.

BROMOXYNIL 2EC 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 BROMOXYNIL 2EC 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 BROMOXYNIL 2EC + atrazine tank mixtures cannot be used.

BROMOXYNIL 2EC Chemigation 2 pints/A only

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—BROMOXYNIL 2EC

WEED SPECIES		1 Pint/A		1 ½ to 2 Pints/A ³	
(When determining leaf stage, count all leaves except cotyledonary leaves)		Max. Leaf Stage	Max. Weed Height (inches)	Max. Leaf Stage	Max. Weed Height (inches)
Black Nightshade	<i>Solanum nigrum</i>	6	6	6	6
Buffalobur	<i>Solanum rostratum</i>	4	2	6	4
Burcucumber	<i>Sicyos angulatus</i>	-	-	4	4
Common Cocklebur	<i>Xanthium strumarium</i>	6	8	8	10
Common Lambsquarters	<i>Chenopodium album</i>	-	6	-	8
Common Ragweed	<i>Ambrosia artemisiifolia</i>	6	4	8	6
Eastern Black Nightshade	<i>Solanum ptycanthum</i>	6	6	6	6
Giant Ragweed	<i>Ambrosia trifida</i>	6	4	6	6
Hemp Sesbania	<i>Sesbania exaltata</i>	-	-	4	4
Ivyleaf Morningglory	<i>Ipomoea hederacea</i>	3	3	4	4
Jimsonweed	<i>Datura stramonium</i>	4	4	6	6
Kochia	<i>Kochia scoparia</i>	-	-	-	2
Ladysthumb	<i>Polygonum persicaria</i>	4	4	6	6
Pennsylvania Smartweed	<i>Polygonum pennsylvanicum</i>	4	4	6	6
Pitted Morningglory	<i>Ipomoea lacunosa</i>	3	3	4	4
Redroot Pigweed ²	<i>Amaranthus retroflexus</i>	-	-	4	2
Spiny Pigweed ²	<i>Amaranthus spinosus</i>	-	-	4	2
Sunflower	<i>Helianthus annuus</i>	4	6	6	8
Tall Morningglory	<i>Ipomoea purpurea</i>	3	3	4	4
Tall Waterhemp ²	<i>Amaranthus tuberculatus</i>	-	-	4	2
Velvetleaf	<i>Abutilon theophrasti</i>	4	3	6	5
Venice Mallow	<i>Hibiscus trionum</i>	-	-	4	2
Wild Buckwheat	<i>Polygonum convolvulus</i>	4	6	6	8
Wild Mustard	<i>Sinapis arvensis</i>	-	-	4	4
WEEDS SUPPRESSED¹					
Canada Thistle	<i>Cirsium arvense</i>	Not recommended		8 inch to bud stage	

¹BROMOXYNIL 2EC suppresses growth by burning down of top growth. Regrowth may occur.

²Control of pigweeds in the high plains areas of Texas and Oklahoma may not be satisfactory with BROMOXYNIL 2EC. Repeat applications may be necessary to achieve satisfactory control.

³Do not apply BROMOXYNIL 2EC at the 2 pints/A rate to sorghum.

BROMOXYNIL 2EC TANK MIXTURE RECOMMENDATIONS

PRODUCT	RATE
BROMOXYNIL 2EC	Preemergence 3/4-1 1/2 pints/A
ATRAZINE	1/2-1 1/5 lbs/A

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

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

BROMOXYNIL 2EC	3/4-1 pint/A
ATRAZINE	1/2-1 1/5 lbs/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—BROMOXYNIL 2EC + ATRAZINE TANK MIXTURES for list of weeds and corresponding stages of growth that are controlled by BROMOXYNIL 2EC + Atrazine tank mixtures at recommended rates of application. For control of additional weeds not listed in the rate table see the GENERAL WEED LIST.

BROMOXYNIL 2EC	3 1/2 pints/A
ATRAZINE	1/2-1 1/5 lbs/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—BROMOXYNIL 2EC + ATRAZINE TANK MIXTURES for list of weeds and corresponding stages of growth that are controlled by BROMOXYNIL 2EC + 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 - BROMOXYNIL 2EC + ATRAZINE TANK MIXTURES

WEED SPECIES ¹	BROMOXYNIL 2EC AND ATRAZINE RATE (TANK MIX)													
	When determining leaf stage, count all leaves except cotyledonary leaves		3/4 pint/A + 1/2 lb ai/A		3/4 pint/A + 1 1/5 lb ai/A		1 pint/A + 1/2 lb ai/A		1 pint/A + 1 1/5 lb ai/A		1 1/2 pint/A + 1/2 lb ai/A		1 1/2 pint/A + 1 1/5 lb ai/A	
	Max Leaf Stage	Max Weed Height	Max Leaf Stage	Max Weed Height	Max Leaf Stage	Max Weed Height	Max Leaf Stage	Max Weed Height	Max Leaf Stage	Max Weed Height	Max Leaf Stage	Max Weed Height	Max Leaf Stage	Max Weed Height
Black Nightshade (<i>Solanum nigrum</i>)	4	4	4	4	6	6	6	6	6	6	6	6	6	6
Buffalobur (<i>Solanum rostratum</i>)	4	4	4	4	6	4	6	4	6	4	6	4	6	4
Burcucumber (<i>Sicyos angulatus</i>)	4	4	4	4	4	4	6	6	6	6	6	6	6	6
Common Cocklebur (<i>Xanthium strumarium</i>)	6	8	8	10	8	10	10	12	10	12	10	12	10	12
Common Lambsquarters (<i>Chenopodium album</i>)	-	6	-	10	-	10	-	12	-	12	-	12	-	12
Common Ragweed (<i>Ambrosia artemisiifolia</i>)	6	4	8	6	8	6	8	6	8	6	8	6	8	6
Eastern Black Nightshade (<i>Solanum ptycanthum</i>)	4	4	4	4	6	6	6	6	6	6	6	6	6	6
Entireleaf Morning-glory (<i>Ipomoea hederacea</i>)	-	-	4	3	4	3	4	3	4	3	4	3	4	3
Giant Pigweed (<i>Ambrosia trifida</i>)	4	6	6	8	6	8	6	8	6	8	6	8	6	8
Hemp Sesbania (<i>Sesbania exaltata</i>)	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Ivyleaf Morningglory (<i>Ipomoea hederacea</i>)	3	3	4	4	4	4	4	4	4	4	4	4	4	4
Jimsonweed (<i>Datura stramonium</i>)	4	4	4	4	6	6	6	6	6	6	6	6	6	6
Kochia (<i>Kochia scoparia</i>)	-	2	-	2	-	2	-	2	-	2	-	2	-	2
Ladysthumb (<i>Polygonum persicaria</i>)	4	4	4	4	6	6	8	8	8	8	8	8	8	8
Palmleaf Morningglory (<i>Ipomoea wrightii</i>)	-	-	4	3	4	3	4	3	4	3	4	3	4	3
Pennsylvania Smartweed (<i>Polygonum pennsylvanicum</i>)	4	4	4	6	6	8	8	8	8	8	8	8	8	8
Pitted Morningglory (<i>Ipomoea lacunosa</i>)	3	3	4	4	4	4	4	4	4	4	4	4	4	4
Prickly Sida (<i>Sida spinosa</i>)	-	-	6	2	4	1	6	2	4	1	6	2	4	1
Puncturevine (<i>Tribulus terrestris</i>)	-	-	-	-	-	-	6	4	6	4	6	4	6	4
Purple Morningglory (<i>Ipomoea muricata</i>)	-	-	2	3	2	3	2	3	2	3	2	3	2	3
Redroot Pigweed (<i>Amaranthus retroflexus</i>)	4	2	8	6	6	4	8	6	6	4	8	6	6	4
Smallflower Morning-glory (<i>Jacquemontia tamnifolia</i>)	-	-	4	3	4	3	4	3	4	3	4	3	4	3
Smooth Pigweed ³ (<i>Amaranthus hybridus</i>)	4	2	6	4	4	2	6	4	6	4	6	4	6	4
Spiny Pigweed ³ (<i>Amaranthus spinosus</i>)	4	2	8	6	6	4	8	6	6	4	8	6	6	4
Sunflower (<i>Helianthus annuus</i>)	6	8	8	10	8	10	10	12	10	12	10	12	10	12
Tall Morningglory (<i>Ipomoea purpurea</i>)	3	3	4	4	4	4	4	4	4	4	4	4	4	4
Tall Waterhemp (<i>Amaranthus tuberculatus</i>)	4	2	8	6	6	4	8	6	6	4	8	6	6	4
Toothed Spurge (<i>Euphorbia dentata</i>)	2	2	2	2	4	4	4	4	4	4	4	4	4	4
Velvetleaf (<i>Abutilon theophrasti</i>)	4	3	4	3	6	5	6	5	6	5	6	5	6	5
Venice Mallow (<i>Hibiscus trionum</i>)	4	2	4	2	4	2	4	2	4	2	4	2	4	2
Wild Buckwheat (<i>Polygonum convolvulus</i>)	6	8	8	10	8	10	10	12	10	12	10	12	10	12
Wild Mustard (<i>Senapis arvensis</i>)	4	4	4	4	4	4	4	4	4	4	4	4	4	4

WEEDS SUPPRESSED²

Canada thistle (<i>Cirsium arvensis</i>)	Not Recommended	Not Recommended	8 inch to bud	8 inch to bud	8 inch to bud	8 inch to bud
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¹When determining leaf stage, count all leaves except cotyledonary leaves.

²Selected rates of BROMOXYNIL 2EC + atrazine tank mixtures suppress growth by burning down of top growth. Regrowth may occur.

³If pigweeds (*Amaranthus sp.*) present in the field to be treated have been identified as triazine-resistant biotypes, use BROMOXYNIL 2EC 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 BROMOXYNIL 2EC + atrazine tank mixtures. Repeat applications may be necessary to achieve satisfactory control.

ATRAZINE CONVERSION TABLE¹

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

¹Follow all precautions and limitations on the labels of products used in tank mixture with BROMOXYNIL 2EC.

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 BROMOXYNIL 2EC at 1 pint/A. Make a second application of BROMOXYNIL 2EC at the same rate 7 to 10 days later.

Large Velvetleaf

For control of velvetleaf up to 14 inches in height, use postemergence application of BROMOXYNIL 2EC at 1 1/2-2 pints/A or BROMOXYNIL 2EC + atrazine tank mixture at 1 pint/A + 1 1/5 ai/A. Make a second application of BROMOXYNIL 2EC 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 BROMOXYNIL 2EC treatments should be applied to thistle from 8 inches to the bud stage for in-season burndown of top growth:

- BROMOXYNIL 2EC at 1 1/2-2 pints/A
- BROMOXYNIL 2EC at 1-1 1/2 pints/A + atrazine at 1/2-1 1/5 lbs ai/A
- BROMOXYNIL 2EC at 1-1 1/2 pints/A + Banvel® or Clarity® at 1/4-1/2 pint/A
- BROMOXYNIL 2EC 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
- BROMOXYNIL 2EC at 1-1 1/2 pints/A + 2,4-D at 1/8-1/4 lb ai/A
- BROMOXYNIL 2EC 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 BROMOXYNIL 2EC TANK MIXTURE RECOMMENDATIONS

PRODUCT	RATE
BROMOXYNIL 2EC + Banvel®	1 pint/A + 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 comes first.	

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 BROMOXYNIL 2EC 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 BROMOXYNIL 2EC.

<p>BROMOXYNIL 2EC + Banvel®</p>	<p>1-1/2 pint/A 1/4-1/2 pint/A</p>
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CROP

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.

WEEDS

All weeds controlled by BROMOXYNIL 2EC 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 BROMOXYNIL 2EC.

<p>BROMOXYNIL 2EC + atrazine + Banvel®</p>	<p>1 pint/A 1/2-1 1/5 lbs a/A 1/8-1/4 pint/A</p>
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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 BROMOXYNIL 2EC + 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 BROMOXYNIL 2EC.

<p>BROMOXYNIL 2EC + atrazine + Banvel®</p>	<p>1 1/2 pint/A 1/2-1 1/5 lbs a/A 1/8-1/4 pint/A</p>
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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 BROMOXYNIL 2EC + 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 BROMOXYNIL 2EC.

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 BROMOXYNIL 2EC or BROMOXYNIL 2EC + atrazine on sorghum.

BROMOXYNIL 2EC # 2-4-D	Banvel® # 1/4 pint/A # 1/16-1/4 lb 2,4-D
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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 BROMOXYNIL 2EC 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 BROMOXYNIL 2EC.

BROMOXYNIL 2EC # 2-4-D	1/2 pint/A # 1/16-1/4 lb 2,4-D
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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 BROMOXYNIL 2EC 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 BROMOXYNIL 2EC.

BROMOXYNIL 2EC # atrazine # 2-4-D	1 pint/A # 1/2-1 1/2 lb 2,4-D # 1/16-1/4 lb 2,4-D
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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 BROMOXYNIL 2EC + 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 BROMOXYNIL 2EC.

BROMOXYNIL 2EC + atrazine + 2,4-D	1 1/2 pints/A + 1/2 lb 1/5 lb ai/A + 1/8-1/4 lb ai/A
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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 BROMOXYNIL 2EC + 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 BROMOXYNIL 2EC.

BROMOXYNIL 2EC + Accent® + non-ionic surfactant	1 pint/A + 2 lb ai/A + 1 qt/100 gal water (0.25% v/v)
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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 BROMOXYNIL 2EC 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 BROMOXYNIL 2EC or Accent® labels that are least restrictive.

BROMOXYNIL 2EC + Accent® + non-ionic surfactant	1 1/2 pints/A + 2 lb ai/A + 1 qt/100 gal water (0.25% v/v)
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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 BROMOXYNIL 2EC 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 BROMOXYNIL 2EC or Accent® labels that are least restrictive.

<p>BROMOXYNIL 2EC + atrazine + Accent® + non-ionic surfactant</p>	<p>1 pint/A # 2.1175 lb. / A # 2.83 oz/A # 1 qt./100 gal water (0.25% v/v)</p>
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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 BROMOXYNIL 2EC + 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 BROMOXYNIL 2EC or Accent® labels that are least restrictive.

<p>BROMOXYNIL 2EC + atrazine + Accent® + non-ionic surfactant</p>	<p>1 1/2 pint/A # 2.1175 lb. / A # 2.83 oz/A # 1 qt./100 gal water (0.25% v/v)</p>
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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 BROMOXYNIL 2EC + 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 BROMOXYNIL 2EC or Accent® labels that are least restrictive.

<p>BROMOXYNIL 2EC + Beacon® + non-ionic surfactant</p>	<p>1 pint/A # 0.38-0.76 oz/A # 1 qt./100 gal water (0.25% v/v)</p>
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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 BROMOXYNIL 2EC 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 BROMOXYNIL 2EC or Beacon® labels that are least restrictive.

<p>BROMOXYNIL 2EC + Stinger®</p>	<p>1 pint/A # 1.3-2.8 pint/A</p>
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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 BROMOXYNIL 2EC 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.

BROMOXYNIL 2EC + Stinger®	1 1/2 pint/A + 1/3-2/3 pint/A
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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 BROMOXYNIL 2EC 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.

BROMOXYNIL 2EC + atrazine + Stinger®	1 pint/A + 1/2-1 1/4 lb a.i./A + 1/3-2/3 pint/A
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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 BROMOXYNIL 2EC + 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.

BROMOXYNIL 2EC + atrazine + Stinger®	1 1/2 pint/A + 1/2-1 1/4 lb a.i./A + 1/3-2/3 pint/A
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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 BROMOXYNIL 2EC + 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.

BROMOXYNIL 2EC + Pursuit® + monomine and Genie + CAN Fertilizer solution	3/4-1 pint/A + 300 g/A + 100 g/100 gal + 1/2-1 qt/A
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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 BROMOXYNIL 2EC + Pursuit® tank mixtures.

WEEDS

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

BROMOXYNIL 2EC + Bladex® 80W or Bladex® 90DF	Preemergence 1 1/2 pints/A 4 1/2 pints/A
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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 BROMOXYNIL 2EC 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 BROMOXYNIL 2EC 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.

BROMOXYNIL 2EC + Extrazine® 1.0E or Extrazine® 90DF	Preemergence 1 1/2 pints/A 4 1/2 pints/A
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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 BROMOXYNIL 2EC 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
 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.

BROMOXYNIL 2EC + Roundup®	Preemergence 1 1/2 pints/A 4 1/2 pints/A
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CROP
 Apply to corn or sorghum before planting time up until just prior to crop emergence.

WEEDS
 All weeds controlled by BROMOXYNIL 2EC 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

- BROMOXYNIL 2EC 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 BROMOXYNIL 2EC.
- Do not apply BROMOXYNIL 2EC 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 BROMOXYNIL 2EC + Accent® or BROMOXYNIL 2EC + Beacon® tank mixtures may result in further increase in crop leaf burn.
- Special care should be taken when using BROMOXYNIL 2EC 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 BROMOXYNIL 2EC.
- Do not apply BROMOXYNIL 2EC 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 BROMOXYNIL 2EC to sorghum.
- Do not apply the BROMOXYNIL 2EC + 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**

BROMOXYNIL 2EC RECOMMENDATIONS

PRODUCT	BROMOXYNIL 2EC
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 BROMOXYNIL 2EC 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.

BROMOXYNIL 2EC	1 1/2 - 2 pints/A
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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.

WEEDS

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.

BROMOXYNIL 2EC	Alternative to 2 pints/A only
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CROP

Apply to wheat, barley, oats, rye and triticale from 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.

BROMOXYNIL 2EC	Small Grains Underseeded with Alfalfa 1-1 1/2 pints/A
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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 trifoliolate 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.

BROMOXYNIL 2EC TANK MIXTURE RECOMMENDATIONS

PRODUCT	RATIO
BROMOXYNIL 2EC #24ED	1:2 plus A #17/12/15 plus A
<p>CROP Apply to wheat, barley, oats and rye from the fully tillered but before jointing stage.</p> <p>WEEDS 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.</p>	
BROMOXYNIL 2EC #24ED	3/4:1 plus A #17/12/15 plus A
<p>CROP Apply to wheat and barley in MN, ND, and SD from the fully tillered but before jointing stage.</p> <p>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.</p>	
BROMOXYNIL 2EC #MCPA	1:2 plus A #17/12/15 plus A
<p>CROP Apply to wheat, barley, oats and rye from the 4 leaf stage but before jointing.</p> <p>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.</p>	
BROMOXYNIL 2EC #Banyal®	1:1/2 plus A #18-1/4 plus A
<p>CROP Fall seeded wheat apply prior to the jointing stage. Spring seeded wheat apply up to the 5 leaf stage.</p> <p>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.</p>	
BROMOXYNIL 2EC #Clean® #romontecmfractant	5/8:1/2 plus A #1/6-1/3 plus A #10/100 plus A
<p>CROP Apply to wheat and barley from the 2 leaf stage but before boot stage. Refer to Clean® label for crop rotation and other restrictions.</p>	

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.

BROMOXYNIL 2EC + Ally® + nonionic surfactant	3/4-1 1/2 pint/A 1/10 oz/A in up to 100 gal water
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CROP
Apply to wheat and barley 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.

BROMOXYNIL 2EC + Finesse® + nonionic surfactant	3/4-1 1/2 pint/A 1/10 oz/A in up to 100 gal water
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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.

BROMOXYNIL 2EC + Amber® + nonionic surfactant	3/4-1 1/2 pint/A + 0.28-0.56 oz/A 0.25-0.5% v/v
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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.

BROMOXYNIL 2EC + Express® + nonionic surfactant	3/4-1 1/2 pint/A 1/10 oz/A in up to 100 gal water
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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.

BROMOXYNIL 2EC + Express® + nonionic surfactant	3/4 L 1/2 pint/A 5/16 1/3 qt/A + 1 qt/100 gal water
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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.

BROMOXYNIL 2EC + Harmony® Extra + nonionic surfactant	3/4 L 1/2 pint/A 5/16 1/3 qt/A + 1 qt/100 gal water
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CROP
 Winter wheat. Apply after the 2 leaf stage but before the 3rd 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 1st 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.

BROMOXYNIL 2EC + Curtail® or Curtail® M	1/2 pint/A 1/2 pint/A
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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.

BROMOXYNIL 2EC + metribuzin (Sencor® or Lactone®)	1/2 pint/A 1/2 pint/A
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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.

BROMOXYNIL 2EC + diuron	1.0 pint/A 2.0 pint/A
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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.

BROMOXYNIL 2EC + Tiller	1.0 pint/A 2.0 pint/A
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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 BROMOXYNIL 2EC, this tankmix will control green foxtail from the 2-leaf to 2-tiller stage of growth.

BROMOXYNIL 2EC + Hoelon	1.1 pint/A 2.2 pint/A
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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.

BROMOXYNIL 2EC + Hoelon	1.1 pint/A 2.2 pint/A
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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.

BROMOXYNIL 2EC + Avenge	1.2 pint/A 2.4 pint/A
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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.).

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.).

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)

BROMOXYNIL 2EC RECOMMENDATIONS

PRODUCT	RATE
BROMOXYNIL 2EC	1 1/2 pints/A
<p>CROP Apply in the fall or spring to seedling alfalfa when the majority of the field has a minimum of 4 trifoliolate leaves. When alfalfa stand is uneven and conditions favor leafburn, unacceptable crop injury may occur to alfalfa in the 2nd trifoliolate 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, BROMOXYNIL 2EC 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 BROMOXYNIL 2EC application made when temperatures are expected to exceed 70°F at and 3 days following application can result in unacceptable crop injury.</p> <p>WEEDS Apply 1 pint/A to MOST SUSCEPTIBLE 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. BROMOXYNIL 2EC will not adequately control over-wintered pennycress, henbit and mustards.</p>	
BROMOXYNIL 2EC	Chemigation Only 2 pints/A
<p>CROP Apply to seedling alfalfa with a minimum of 2 trifoliolate leaves. Apply through automated sprinkler irrigation systems with a mechanical transfer loading system only. See MIXING, LOADING AND HANDLING INSTRUCTIONS section for complete details. BROMOXYNIL 2EC applications made when temperatures are expected to exceed 85° F at and 3 days following application can result in unacceptable crop injury.</p> <p>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.</p>	

BROMOXYNIL 2EC TANK MIXTURE RECOMMENDATIONS

PRODUCT	RATE
BROMOXYNIL 2EC Butyrac® 200 (2,4-DB)	1 pint/A 1 quart/A
<p>CROP Apply in the fall or spring to seedling alfalfa when the majority of the field has a minimum of 4 trifoliolate leaves. When alfalfa stand is uneven and conditions favor leafburn unacceptable crop injury may occur to alfalfa in the 2 trifoliolate 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, BROMOXYNIL 2EC 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 BROMOXYNIL 2EC 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.</p> <p>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. BROMOXYNIL 2EC + Butyrac® 200 at 2 lb ai/gal tank mixtures will not adequately control over-wintered pennycress, henbit and mustards.</p>	

RESTRICTIONS AND PRECAUTIONS: ALFALFA (Seedling)

- Crop leafburn can occur following BROMOXYNIL 2EC 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 BROMOXYNIL 2EC should not exceed 2 pints/A per season.
- The use of Eptam® preemergence may enhance crop leaf burn from postemergence application of BROMOXYNIL 2EC and should be considered prior to using BROMOXYNIL 2EC.
- Follow all restrictions and precautions on the tank mixture product label when a BROMOXYNIL 2EC tank mixture is used.
- Tank mixture with 2,4-DB may result in unacceptable crop leaf burn especially under warm, humid weather conditions.
- BROMOXYNIL 2EC 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 crop injury.

FLAX (*Linum usitatissimum* only)

BROMOXYNIL 2EC RECOMMENDATIONS

PRODUCT	RATE
BROMOXYNIL 2EC	1.0 pint/A
<p>CROP Apply to flax that is 2 to 8 inches in height. Do not apply BROMOXYNIL 2EC to flax during or after the bud stage.</p> <p>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.</p>	

BROMOXYNIL 2EC TANK MIXTURE RECOMMENDATIONS

BROMOXYNIL 2EC Poast® Crop Oil Concentrate or Dast®	RATE
<p>CROP 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.</p> <p>WEEDS This tankmix will control broadleaf weeds plus grassy weeds listed on the Poast® label. Apply to MOST SUSCEPTIBLE broadleaf weeds (see list on the BROMOXYNIL 2EC label) that do not exceed the 4 leaf stage, 2 inches in height or 1 inch in diameter, whichever comes first.</p>	<p>1.0 pint/A 1.1 to 2.0 pints/A 2.0 pints/A 2.0 pints/A</p>

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 occur.
- Unacceptable crop injury may occur following BROMOXYNIL 2EC application to flax grown on high organic, peat type soils.
- Application under high humidity conditions can injure flax.
- Unless otherwise instructed, do not apply BROMOXYNIL 2EC 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 BROMOXYNIL 2EC.

GARLIC

BROMOXYNIL 2EC RECOMMENDATIONS

PRODUCT	RATE
BROMOXYNIL 2EC	1-12.2 pints/A

CROP
Apply to garlic after emergence but before 12 inches in height.

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.

BROMOXYNIL 2EC	RATE
Only on garlic grown in muck soils in Northeastern US	1-12.2 pints/A

CROP
Apply to garlic after emergence but before 12 inches in height.

*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.
- BROMOXYNIL 2EC 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)

BROMOXYNIL 2EC RECOMMENDATIONS

BROMOXYNIL 2EC	RATE
	1-12.2 pints/A

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

WEEDS
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 BROMOXYNIL 2EC 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 BROMOXYNIL 2EC 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.
- BROMOXYNIL 2EC 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 BROMOXYNIL 2EC 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

BROMOXYNIL 2EC RECOMMENDATIONS

PRODUCT	RATE
BROMOXYNIL 2EC	Preemergence 1.7 pints/A
<p>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.</p> <p>WEEDS Apply BROMOXYNIL 2EC 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.</p>	
BROMOXYNIL 2EC	Postemergence 1.7 pints/A
<p>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 chemigation only. Water volume is important—Concentrated sprays kill onions. Thorough and uniform coverage is necessary for good weed control.</p>	

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 BROMOXYNIL 2EC 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 BROMOXYNIL 2EC varies with the variety and environmental conditions. Therefore even if all the label directions are followed, BROMOXYNIL 2EC application still may cause injury to onions under certain circumstances.
- Do not irrigate onions that have received a preemergence application of BROMOXYNIL 2EC for 2 days following application or within 3 days of crop emergence.
- Do not apply BROMOXYNIL 2EC preemergence to onions grown west of the Mississippi River.
- Do not use BROMOXYNIL 2EC 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 BROMOXYNIL 2EC to onions with aerial equipment.
- Do not add surfactant.

**GRASS CROPS
CONSERVATION RESERVE PROGRAM (CRP) AREAS**

BROMOXYNIL 2EC RECOMMENDATIONS

PRODUCT	RATE
BROMOXYNIL 2EC	1 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.

BROMOXYNIL 2EC TANK MIXTURE RECOMMENDATIONS

PRODUCT	RATE
BROMOXYNIL 2EC + MCPA (4lb ai/gal)	1-2 pints/A + 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 BROMOXYNIL 2EC to CRP areas planted with alfalfa or other legumes.
- Do not apply BROMOXYNIL 2EC 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 BROMOXYNIL 2EC to CRP areas that are underseeded with alfalfa.

GRASSES GROWN FOR SEED OR SOD PRODUCTION SEEDLING AND ESTABLISHED GRASSES

BROMOXYNIL 2EC RECOMMENDATIONS

BROMOXYNIL 2EC	1-2 pints/A or 1/4-1/2 pint/A
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CROP
Apply to established and newly seeded grasses grown for seed or sod production before the boot stage. Established grasses tolerant to BROMOXYNIL 2EC include Bentgrasses, Kentucky Bluegrass, Fescues, Ryegrass, Bermudagrass, St. Augustinegrass and Zoysiagrass. BROMOXYNIL 2EC 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 BROMOXYNIL 2EC to grasses grown for seed or sod production with backpack or hand-held application equipment.

NON-RESIDENTIAL TURFGRASS

**BROMOXYNIL 2EC RECOMMENDATIONS
Seedling and Established Non-Residential Turfgrass**

PRODUCT	RATE
BROMOXYNIL 2EC	1.2 pints/A (0.06 gal/1000 sq ft)
<p>CROP Apply to established and newly seeded non-residential turfgrass when weeds are small and actively growing. Established turfgrasses that are tolerant to BROMOXYNIL 2EC include Bentgrasses, Kentucky Bluegrass, Fescues, Ryegrass, Bermudagrass, St. Augustinegrass and Zoysiagrass. BROMOXYNIL 2EC 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.</p> <p>WEEDS Refer to the GENERAL WEED LIST for a listing of susceptible broadleaf weeds.</p> <p>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).</p>	

RESTRICTIONS AND PRECAUTIONS: NON-RESIDENTIAL TURFGRASSES

- Do not allow livestock to graze in treated areas or feed treated grasses to livestock.
- Do not apply BROMOXYNIL 2EC to non-residential turf with backpack or hand-held application equipment.

**BROMOXYNIL 2EC TANK MIXTURE RECOMMENDATIONS
Established Non-Residential Turfgrass**

PRODUCT	RATE
BROMOXYNIL 2EC + Weedone® DPC Ester	2 pints/A (0.1 gal/1000 sq ft) + 3.5 pints/A (0.125 gal/1000 sq ft)
<p>CROP Apply to established non-residential turfgrass only. This treatment may cause injury to bentgrasses, St. Augustinegrass, Centipedegrass, and Carpetgrass.</p> <p>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.</p> <p>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).</p>	

PRODUCT	RATE
BROMOXYNIL 2EC + MCPP	2 pints/A (0.75 fl oz/1000 sq ft) 1.0 lb ai/A (0.025 lb ai/1000 sq ft)
<p>CROP Apply to established non-residential turfgrass only. This treatment is not recommended for use on St. Augustinegrass or Centipedegrass.</p> <p>WEEDS 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.</p> <p>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).</p>	
BROMOXYNIL 2EC + Dicamba	2 pints/A (0.75 fl oz/1000 sq ft) 0.95-0.25 lb ai/A (0.003-0.012 lb ai/1000 sq ft)
<p>CROP Apply to established non-residential turfgrass only. This treatment may cause injury to Bentgrasses, St. Augustinegrass, Centipedegrass, and Carpetgrass.</p> <p>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.</p> <p>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).</p>	
BROMOXYNIL 2EC + MCPP + Dicamba	2 pints/A (0.75 fl oz/1000 sq ft) 0.5-1.0 lb ai/A (0.0125-0.025 lb ai/1000 sq ft) 0.025-0.25 lb ai/A (0.003-0.006 lb ai/1000 sq ft)
<p>CROP Apply to established non-residential turfgrass only. This treatment is not recommended for use on St. Augustinegrass or Centipedegrass.</p> <p>WEEDS All weed species previously listed in the GENERAL WEED LIST for BROMOXYNIL 2EC and BROMOXYNIL 2EC/Dicamba tank mixtures plus the following species: Dandelion and plantains.</p> <p>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).</p>	
BROMOXYNIL 2EC + MCPP + 2,4-D	2 pints/A (0.75 fl oz/1000 sq ft) 0.5-1.0 lb ai/A (0.0125-0.025 lb ai/1000 sq ft) 0.5-1.0 lb ai/A (0.0125-0.025 lb ai/1000 sq ft)
<p>CROP Apply to established non-residential turfgrass only. This treatment is not recommended for use on St. Augustinegrass or Centipedegrass.</p>	

WEEDS
 All weed species previously listed in the GENERAL WEED LIST for BROMOXYNIL 2EC and BROMOXYNIL 2EC/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 than 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

- BROMOXYNIL 2EC/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 BROMOXYNIL 2EC to non-residential turf with backpack or hand-held application equipment.

NON-CROPLAND AND INDUSTRIAL SITES

BROMOXYNIL 2EC RECOMMENDATIONS

PRODUCT	RATE
BROMOXYNIL 2EC	1-2 pints/ 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.

WEEDS
 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 BROMOXYNIL 2EC 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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