

# RESTRICTED USE PESTICIDE

For retail sale to and use only by Certified Applicators or persons directly under their supervision and only for those uses covered by the Certified Applicator's certification. See precautionary statements for reasons this product is classified Restricted Use.

## BRONATE® Herbicide

FOR CONTROL OF CERTAIN BROADLEAF WEEDS IN WHEAT, BARLEY, OATS, AND RYE.

### ACTIVE INGREDIENT

Octanoic acid ester of bromoxynil\* (3,5-dibromo-4-hydroxybenzotrile) ..... 31.7%  
Isooctyl ester of 2-methyl-chlorophenoxyacetic acid\*\* ..... 34.0%

INERT INGREDIENTS: ..... 34.3%

\*Bromoxynil octanoate equivalent to 21.8% of bromoxynil or not less than 2.0 pounds of bromoxynil per gallon.

\*\* Equivalent to 21.8% 2-methyl-chlorophenoxyacetic acid or not less than 2.0 pounds MCPA acid per gallon.

## KEEP OUT OF REACH OF CHILDREN WARNING

EPA Reg. No. 264-438

EPA Est. No.

For PRODUCT USE Information Call 1-800-334-9745

For EMERGENCY Information ONLY Call 24 Hours A Day 1-800-334-7577

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### WARNING - RESTRICTED USE

Use of this product may be hazardous to your health. Exposure to this product has been shown to cause birth defects in laboratory animals. Women of childbearing age should be particularly careful when handling this product to avoid ingestion and skin contact.

Harmful if swallowed or absorbed through skin or inhaled. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist.

Users of this product are encouraged to participate in Rhone-Poulenc's educational program dealing with potential hazards and safer use of this product. Further information on this program can be obtained by contacting Rhone-Poulenc Ag Company at 1-800-334-9745.

#### ALL PERSONS HANDLING THE CONCENTRATE MUST OBSERVE THE FOLLOWING REQUIREMENTS.

Wear clean cotton (or cloth) coveralls that cover all parts of the body except the head, hands, and feet. The coveralls must be worn over a long sleeve shirt and long pants. Wear clean nitrile gloves, a chemical resistant apron, goggles or face shield, and chemical resistant shoes, shoe coverings, or boots. If you use a mechanical transfer system for all mixing and loading operations, use of a chemical resistant apron is optional.

If you will handle a total of 30 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 has 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.

#### ALL PERSONS APPLYING THIS PRODUCT, OR REPAIRING OR CLEANING EQUIPMENT USED WITH THIS PRODUCT, MUST OBSERVE THE FOLLOWING REQUIREMENTS.

When applying this product from a tractor (unless the tractor has a completely enclosed cab), or when repairing or cleaning equipment used with the product, you must wear clean nitrile gloves and clean cotton (or cloth) coveralls that cover all parts of the body except the head, hands, and feet. Coveralls must be worn over a long sleeve shirt and long pants.

All applicators (except for pilots) and all persons repairing or cleaning equipment used with this product must wear chemical resistant shoes, shoe coverings, or boots.

Application from a tractor with a completely enclosed cab or aerial application is required whenever this product is applied to 180 or more acres in a day. To avoid contamination, coveralls and gloves worn when handling the concentrate must be removed prior to entering an enclosed cab or cockpit. When applying from a tractor with an enclosed cab, clean coveralls and clean nitrile gloves must be kept inside the cab, and must be worn when exiting the cab to perform in-field maintenance or repair.

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.)

#### GENERAL REQUIREMENTS FOR ALL USE

**IMPORTANT!** Before removing gloves or starting a new work operation, rinse the outside of the gloves thoroughly with water. Always remove gloves and wash your hands and face with soap and water before smoking, eating, drinking, or toileting.

7-64-438

**ACCEPTED**

JUN - 5 1969

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under  
EPA Reg. No. 7-64-438

**AFTER WORK.** Gloves must be discarded at the end of each day. Take off all clothes and shoes. Shower with soap and water. Do not wear or re-use contaminated clothing. Wash protective equipment with water after each use. Protective clothing worn during use must be laundered separately from other household articles.

#### STATEMENT OF PRACTICAL TREATMENT

**IF SWALLOWED:** Get medical attention. Do not induce vomiting, contains petroleum distillates. Do not give anything by mouth to an unconscious person.

**IF ON SKIN:** Wash with plenty of soap and water. Get medical attention if irritation persists.

**IF IN EYES:** Flush with water for 15 minutes. Get medical attention.

#### 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. Do not apply directly to water. Do not apply when weather conditions favor drift from target areas. Do not contaminate water by cleaning of equipment or disposal of wastes.

#### PHYSICAL AND CHEMICAL HAZARDS

Do not use or store near heat or open flame.

**IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.**

#### GENERAL INFORMATION

BRONATE® Herbicide is a selective postemergence product for control of broadcast weeds in small grains. To broaden the spectrum of control, BRONATE® Herbicide may be tankmixed with Glean®, Avenge® or MCPA. To ensure maximum safety and weed control, follow all cautions and limitations on the label and the labels of products used in a tank mixture with BRONATE® Herbicide.

#### GENERAL WEED LIST

Postemergence application of BRONATE® Herbicide will control the following weeds when sprayed in the seedling stage. Maximum weed stage of growth is listed under BRONATE® RECOMMENDATIONS.

#### MOST SUSCEPTIBLE BROADLEAF WEEDS

Annual sowthistle	( <i>Sonchus oleraceus</i> )
Black mustard	( <i>Brassica nigra</i> )
Black nightshade	( <i>Solanum nigrum</i> )
Common cocklebur	( <i>Xanthium pensylvanicum</i> )
Common lambsquarters	( <i>Chenopodium album</i> )
Common tarweed	( <i>Hemizonia congesta</i> )
Cow cockle	( <i>Saponaria vaccaria</i> )
Eastern black nightshade	( <i>Solanum ptycanthum</i> )
Coast fiddleneck	( <i>Amsinckia intermedia</i> )
Field pennycress	( <i>Thlaspi arvense</i> )
Green smartweed	( <i>Polygonum scabrum</i> )
Hairy nightshade	( <i>Solanum sarachoides</i> )
Jimsonweed	( <i>Datura stramonium</i> )
Ladysthumb	( <i>Polygonum persicaria</i> )
London rocket	( <i>Sisymbrium irio</i> )
Marshelder	( <i>Iva xanthifolia</i> )
Pennsylvania smartweed	( <i>Polygonum pensylvanicum</i> )
Pepperweed spp.	( <i>Lepidium app.</i> )
Redroot pigweed	( <i>Amaranthus retroflexus</i> )
Russian thistle	( <i>Salsola kali</i> )
Shepherdspurse	( <i>Capsella bursa-pastoris</i> )
Silverleaf nightshade	( <i>Solanum elaeagnifolium</i> )
Smooth pigweed	( <i>Amaranthus hybridus</i> )
Spiny pigweed	( <i>Amaranthus spinosus</i> )
<sup>1</sup> Sunflower	( <i>Helianthus annuus</i> )
Tall Waterhemp	( <i>Amaranthus tuberculatus</i> )

Tartary buckwheat	( <i>Fagopyrum tataricum</i> )
Tumble mustard	( <i>Sisymbrium altissimum</i> )
Wild buckwheat	( <i>Polygonum convolvulus</i> )
Wild mustard	( <i>Brassica kaber</i> )
Yellow rocket	( <i>Barbarea vulgaris</i> )

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

#### SUSCEPTIBLE BROADLEAF WEEDS

Blue (purple) mustard	( <i>Chlorispora tenella</i> )
Common groundsel	( <i>Senecio vulgaris</i> )
Common ragweed	( <i>Ambrosia artemisiifolia</i> )
Corn chamomile	( <i>Anthemis arvensis</i> )
Corn groundsel	( <i>Lithospermum arvense</i> )
Fumitory	( <i>Fumaria officinalis</i> )
Giant ragweed	( <i>Ambrosia trifida</i> )
Hemp sesbania	( <i>Sesbania exaltata</i> )
Henbit	( <i>Lamium amplexicaule</i> )
Ivyleaf morningglory	( <i>Ipomoea hederacea</i> )
Knawel	( <i>Scleranthus annuus</i> )
Kochia	( <i>Kochia scoparia</i> )
Mayweed	( <i>Anthemis cotula</i> )
Prostrate knotweed	( <i>Polygonum aviculare</i> )
Tall morningglory	( <i>Ipomoea purpurea</i> )
Tansy mustard	( <i>Descurainia pinnata</i> )
Tarweed	( <i>Hemizonia spp.</i> )
Velvetleaf	( <i>Abutilon theophrasti</i> )
Wild radish	( <i>Raphanus raphanistrum</i> )

Weeds germinating after spraying will not be controlled.

#### WEED SUPPRESSION

Canada thistle	( <i>Cirsium arvense</i> )
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BRONATE® Herbicide applied at 1 1/2 pints per acre provides burn down of top growth. Regrowth may occur. Make applications when Canada thistle is 8 inches tall to the bud stage.

#### WHEAT, BARLEY, OATS, AND RYE

BRONATE® Herbicide may be applied to wheat and barley from the 3 leaf stage up to the boot stage. Applications should be made to weeds soon after emergence for best weed control and to prevent competition to the crop. Weed control may be reduced when weeds are stressed from lack of moisture and cold temperatures. Avoid spray drift to non-target areas. Do not graze treated fields for 30 days following application.

BRONATE® Herbicide can be applied to wheat and barley alone or in a tank mixture with Glean, Avenge, or MCPA to broaden the spectrum of weed control. BRONATE® can also be applied to oats and rye alone or in a tank mixture with MCPA. To ensure maximum safety and weed control, following all cautions and limitations on this label and the labels of products used in tank mixtures with BRONATE® Herbicide.

#### MIXING, LOADING AND HANDLING DIRECTIONS

##### 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. Correct procedures for mixing and loading are provided in Rhone-Poulenc Ag Company's Educational Program.

##### 30 Gallon and Bulk Containers

If you will handle a total of 30 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 has 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.

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

**TANK MIXTURES:** Fill the spray tank 1/2 to 3/4 full with clean water and begin agitation. If tank mixing with Glean, add the recommended amount of Glean first. After Glean is thoroughly mixed with water, add the recommended amount of BRONATE® Herbicide and add water to the spray tank to the desired level. If tank mixing with Avenge or MCPA, add the recommended amount of BRONATE® Herbicide first. After BRONATE® is thoroughly mixed with water, add the recommended amount of the other herbicide to the spray tank and add water to the spray tank to the desired level. Maintain sufficient agitation while mixing and during application to ensure a uniform spray mixture.

#### **APPLICATION PROCEDURES**

BRONATE® Herbicide alone or in a tank mixture with Glean, Avenge, or MCPA can be applied by both ground and aerial equipment.

#### **GROUND APPLICATION**

Use a standard herbicide boom sprayer that provides uniform and accurate application. Sprayer should be equipped with flat fan nozzles spaced a maximum of 20 inches apart and screens no finer than 50 mesh in the nozzle tips and in-line strainers.

Applications of BRONATE® Herbicide used alone and in tank mixtures should be used in a minimum spray volume of 10 gallons per acre with a minimum spray pressure of 30 psi at the nozzle tips.

#### **AERIAL APPLICATION**

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, shipping areas, etc.) BRONATE® Herbicide and tank mixtures with BRONATE® can be applied by aerial equipment. Use a minimum of 5 gallons of spray volume per acre using diaphragm-type nozzles that produce cone or fan spray patterns with a maximum spray pressure of 40 psi at the nozzle tips. Nozzles should be located no farther than 3/4 the distance from the center of the aircraft to the end of the wing or rotor. Nozzles should be oriented at an angle between straight down and straight back.

The aircraft should discharge the spray a maximum of 10 feet above the crop. To minimize drift, do not apply during periods of gusty winds or when wind exceeds 5 mph.

#### **SPRAYABLE LIQUID FERTILIZERS**

BRONATE® Herbicide can be applied to small grains using sprayable liquid fertilizer as the carrier. Predetermine the compatibility with the liquid fertilizer by mixing small proportional quantities in advance. Agitation must be maintained during filling and application operations to ensure that BRONATE® is evenly mixed with the fertilizer.

#### **RECOMMENDED USES**

The recommended rate of BRONATE® Herbicide used alone or in a tank mixture with another herbicide is determined by the crop (fall or spring seeded), geographic area, application equipment (ground or aerial application), weed species, and stage of growth of weeds at time of application.

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**BRONATE® HERBICIDE RECOMMENDATIONS**  
**WHEAT AND BARLEY**  
 (Ground And Aerial Application)

		TIMING OF APPLICATION		
PRODUCT	CROP/GEOGRAPHICAL AREA	RATE	CROP	WEEDS
BRONATE®	Fall seeded wheat and barley throughout the United States and spring seeded wheat and barley in Idaho, Oregon, and Washington.	1 Pint/A	Apply to wheat and barley after the 3 leaf stage but before the crop reaches the boot stage.	<b>MOST SUSCEPTIBLE BROADLEAF WEEDS</b>  Apply to weeds 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.
		1 1/2 Pints/A		<b>SUSCEPTIBLE BROADLEAF WEEDS</b>  Apply to weeds up to the 4 leaf stage or 2 inches in height, whichever comes first. If weed forms rosette, apply before weeds exceed 1 inch in diameter.
	1 Pint/A	<b>MOST SUSCEPTIBLE AND SUSCEPTIBLE BROADLEAF WEEDS</b>  Apply to weeds that do not exceed 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 kochia up to 2 inches in height.		
	1 1/2 Pints/A	Apply to control kochia that is 2 to 4 inches in height.		

**BRONATE® HERBICIDE TANK MIXTURE RECOMMENDATIONS**

		TIMING OF APPLICATION		
PRODUCT	CROP/GEOGRAPHICAL AREA	RATE	CROP	WEEDS
BRONATE®  +  Glean (Tankmix)	Fall seeded wheat and barley throughout the United States and spring seeded wheat and barley in Idaho, Oregon and Washington.	3/4 Pint/A + 1/6-1/3 Ounce/A	Apply to wheat and barley after the 2 leaf stage but before the crop reaches the boot stage.	<b>MOST SUSCEPTIBLE BROADLEAF WEEDS</b>  Apply to weeds up to the 8 leaf stage or 4 inches in height, whichever comes first. If weed forms rosette, apply before weeds exceeds 2 inches in diameter.
		1 Pint/A + 1/6-1/3 Ounce/A		<b>SUSCEPTIBLE BROADLEAF WEEDS</b>  Apply to weeds up to the 4 leaf stage or 2 inches in height, whichever comes first. If weed forms rosette, apply before weeds exceeds 1 inch in diameter.
	1 Pint/A + 1/6-1/3 Ounce/A	<b>MOST SUSCEPTIBLE AND SUSCEPTIBLE BROADLEAF WEEDS</b>  Apply to weeds that do not exceed the 8 leaf stage or 4 inches in height, whichever comes first. If weed forms rosette, apply before weeds exceeds 2 inches in diameter. Apply to kochia up to 2 inches in height.		
	1 1/2 Pints/A + 1/6-1/3 Ounce/A	Apply to control kochia that is 2 to 4 inches in height.		

A tankmix application of BRONATE® Herbicide and Glean broadens the spectrum of weed control. See Glean label for listing of additional susceptible weed species and crop rotation instructions.

Glean® is a registered trademark of E.I. Dupont de Nemours & Company, Inc.

#### BRONATE® HERBICIDE AND AVENGE

A tank mixture of BRONATE® Herbicide + Avenge can be used to control wild oats in addition to the broadleaf weeds controlled by BRONATE®. The rate and application timing for weed control with BRONATE® Herbicide in the tank mixture is the same as when BRONATE® is used alone. See BRONATE® HERBICIDE RECOMMENDATIONS.

Apply BRONATE® Herbicide + Avenge tank mixtures when the majority of the wild oats are in the 3 to 5 leaf stage of growth. This frequently coincides with barley in the 3 to 7 leaf stage, spring seeded wheat in the 5 to 6 leaf stage, and fall seed wheat in the 4 leaf to tillered stage of growth. See Avenge label for varietal restrictions and recommended Avenge rates as related to wild oat density.

Avenge® is a trademark of American Cyanamid Company.

#### BRONATE® HERBICIDE AND MCPA

A tank mixture of BRONATE® Herbicide at the recommended rate and MCPA at 1/4 lb ai/A is recommended when the weed infestations of MCPA susceptible weeds are heavy or the weeds are at the maximum recommended stage of growth for BRONATE®. The tank mixture will control the weeds listed on the MCPA label in addition to the weeds listed on the BRONATE® Herbicide label. The rate of BRONATE® Herbicide in the tank mixture is the same as when BRONATE® is used alone. See BRONATE® HERBICIDE RECOMMENDATIONS.

A tank mixture of BRONATE® Herbicide + MCPA can be applied after the 3 leaf stage but before the crop reaches the boot stage.

#### OATS AND RYE (Ground And Aerial Application)

BRONATE® Herbicide alone and in a tank mixture with MCPA can be applied to oats and rye.

Recommendations for BRONATE® Herbicide alone and in a tank mixture with MCPA for use on oats and rye are the same as for wheat and barley.

### BRONATE® HERBICIDE WEED CONTROL IN COVER CROPS ON CONSERVATION RESERVE ACRES

#### DIRECTIONS FOR USE

**CROPS:** Crested wheatgrasses (all), tall wheatgrass, western wheatgrass, bluebunch wheatgrass, intermediate wheatgrass, sheep fescue, Russian wildrye, and Canby bluegrass.

**TARGET PEST:** BRONATE® Herbicide will control all broadleaf weeds mentioned in the General Weed List found on the package label. Follow all use directions on this label and on the BRONATE® Herbicide package label to ensure product performance, and crop safety.

#### WHEN TO APPLY

BRONATE® Herbicide may be applied with standard ground boom and aerial hydraulic spray systems to forage crops listed here anytime after the 2 to 3 leaf stage, but before weeds exceed recommended stages of growth for treatment. Refer to USE RECOMMENDATIONS below for further instructions.

#### HOW TO APPLY

**Ground Application:** Use a standard herbicide boom sprayer that provides uniform and accurate application. Sprayer should be equipped with flat fan nozzles spaced a maximum of 20 inches apart and screens no finer than 50 mesh in the nozzle tips and in-line strainers. Apply in a minimum spray volume of 10 gallons per acre with minimum spray pressure of 30 psi at the nozzle tips.

**Aerial Application:** The sprayer should be equipped to provide a uniform and accurate application. Use a minimum spray volume of 5 gallons per acre using diaphragm-type nozzles that produce cone or fan spray patterns with a maximum spray pressure of 40 psi at the nozzle tips. Nozzles should be located no further than 3/4 the distance from the center of the aircraft to the end of the wing or rotor. Nozzles should be oriented at an angle between straight down and straight back. The aircraft should discharge the spray a maximum of 10 feet above the crop. To minimize drift, do not apply during periods of gusty winds or when wind exceeds 5 mph. In order to ensure maximum safety and weed control, follow label recommendations on this label and all the cautions and limitations on the package labels of the tank mixture components.

### BRONATE® HERBICIDE WEED CONTROL IN COVER CROPS ON CONSERVATION RESERVE ACRES

#### USE RECOMMENDATIONS TIMING OF APPLICATION

PRODUCT	CROP	WEED <sup>1</sup>
1 1/2 Pints/A	Apply anytime in the fall or spring after the crop has reached the 2 to 3 leaf stage.	<b>MOST SUSCEPTIBLE AND SUSCEPTIBLE BROADLEAF WEEDS</b>  Apply to weeds up to the 8 leaf stage or 4 inches in height, whichever comes first. If weed forms rosette, apply before weeds exceeds 2 inches in diameter.

<sup>1</sup>Refer to General Weed List on the BRONATE® Herbicide label for a complete list of SUSCEPTIBLE WEEDS.

#### USE RESTRICTIONS

Do not allow livestock to graze treated fields.

Do not feed treated grasses to livestock.

Mix with clean water only, do not use spray adjuvants or fluid fertilizers as crop injury may occur.

Do not apply to alfalfa.

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**BRONATE® AND METRIBUZIN HERBICIDE  
(SENCOR®/LEXONE®) TANK MIX**

**DIRECTIONS FOR USE CROP**

Fall seeded wheat and barley, and spring seeded barley. Use only in the states of Idaho, Oregon, and Washington.

**TARGET PEST**

Henbit, ivyleaf speedwell, mayweed and tansy mustard up to the 4 leaf stage or 2 inches in height or diameter whichever comes first, in addition to the weeds controlled by BRONATE®. See package label for list of weeds controlled by BRONATE®.

**RATE**

Apply BRONATE® at 1 pint per acre and metribuzin (Sencor/Lexone) at 1/8 - 3/16 lb ai/A.

**APPLICATION**

Apply in the spring after wheat and barley has started to grow and has a well established secondary root system with at least 3 to 4 tillers but before the forming of joints in the stem.

**GROUND APPLICATION:** Use a standard boom sprayer that provides uniform and accurate application. Sprayer should be equipped with flat fan nozzles spaced a maximum of 20 inches apart and screens no finer than 50 mesh in the nozzle tips and in-line strainers. Apply in a minimum spray volume of 10 gallons per acre with minimum spray pressure of 30 psi at the nozzle tips.

**AERIAL APPLICATION:** The sprayer should be equipped to provide a uniform and accurate application. Use a minimum spray volume of 5 gallons per acre using diaphragm - type nozzles that produce cone or fan spray patterns with a maximum spray pressure of 40 psi at the nozzle tips. Nozzles should be located no further than 3/4 the distance from the center of the aircraft to the end of the wing or rotor. Nozzles should be oriented at an angle between straight down and straight back. The aircraft should discharge the spray a maximum of 10 feet above the crop. To minimize drift, do not apply during periods of gusty winds or when wind exceeds 5 mph.

In order to ensure maximum safety and weed control, follow label recommendations on this label and all the cautions and limitations on the package labels of the tank mixture components. Sencor® is a registered trademark of the parent company of Farbenfabriken Bayer GmbH, Leverkusen. Lexone® is a registered trademark of E.I. Du Pont de Nemours Company, Inc.

**AUTOMATED SPRINKLER IRRIGATION SYSTEMS**

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.

**Directions For Use:** Fall and spring seeded wheat and barley.

Use only in the states of Colorado, Idaho, Kansas, Montana, Nebraska, Nevada, Oregon, South Dakota, Washington, and Wyoming.

Refer to the package label for MOST SUSCEPTIBLE AND SUSCEPTIBLE WEED species.

BRONATE® Herbicide may be applied through automated sprinkler irrigation systems to wheat and barley after the 3 leaf stage, but before the crop reaches the boot stage.

Use 2 pints per acre in 0.25 to 0.5 acre-inch of water. BRONATE® at 2 pints/A must be applied with a mechanical transfer system only. See MIXING, LOADING AND HANDLING INSTRUCTIONS section for complete details. Apply to weeds up to the 4 leaf stage or 2 inches in height, whichever comes first. If weed forms rosette, apply before weeds exceed 1 inch in diameter.

**AUTOMATED SPRINKLER IRRIGATION SYSTEMS**

Apply BRONATE® Herbicide through sprinkler including center pivot, lateral move, side (wheel) roll, solid set or hand move irrigation systems only. Do not apply this product through any other type of irrigation system.

**SPECIFIC REQUIREMENTS FOR APPLICATION THROUGH AUTOMATED SPRINKLER IRRIGATION SYSTEMS.**

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 also 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 the BRONATE® Herbicide.
9. BRONATE® Herbicide should be applied continuously for the duration of the water application with center pivot and continuous lateral move systems. Application of BRONATE® should be made during the last 30 to 45 minutes of the irrigation set with other overhead sprinkler system.
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 BRONATE® Herbicide is diluted in the supply tank, fill the tank with half of the water amount desired, add the BRONATE® and then add remaining water amount with agitation.
13. Start the sprinklers and then inject BRONATE® Herbicide into the irrigation line. BRONATE® should be injected with a positive displacement pump into the main line at least 8 feet ahead of a right angle turn to ensure adequate mixing. Refer to the BRONATE® Herbicide label for detailed information on application rates and timings.

**CHEMIGATION USER PRECAUTIONS**

Application of more than 0.5 inch/acre of irrigation water may result in decreased product performance on certain soils.

Do not apply when conditions favor drift, when system connections or fittings leak, or when nozzles do not provide uniform distribution.

Allow sufficient time for pesticide to be flushed through all the lines and nozzles before turning off irrigation water.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

Do not connect an irrigation system used for pesticide application to a public water system.

If you have questions about calibration, you should contact State Extension Service Specialists, equipment manufacturers or other experts.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

#### **STORAGE AND DISPOSAL**

##### **STORAGE**

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

##### **PESTICIDE DISPOSAL**

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

##### **CONTAINER DISPOSAL**

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

#### **LIMITED WARRANTY AND DISCLAIMER**

The manufacturer warrants that this product conforms to the chemical description on the label; that this product is reasonably fit for the purposes set forth in the directions for use when it is used in accordance with such directions; that the directions, warnings, and other statements on this label are based upon responsible experts' evaluation of reasonable tests of ef-

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