

PM 25

264-544

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

EPA Reg-  
Number:  
  
264-544

Date of Issuance:  
  
FEB 13 1998

NOTICE OF PESTICIDE:  
  x   Registration  
     Reregistration

Term of Issuance:  
Unconditional

Name of Pesticide Product:  
Bronate Gel Herbicide

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Mr. James A. Barron  
Registration Manager  
RHONE-POULENC AG COMPANY  
P. O. Box 12014  
Research Triangle Park, NC 27709

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

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

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

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. Make the following label changes:
  - a. Revise the EPA Registration Number to read, "EPA Reg. No. 264-544".
3. Submit one copy 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:

Jim Tompkins, PM-25  
Herbicide Branch  
Registration Division, (7505C)

FEB 13 1998

Best COPY AVAILABLE

# BRONATE® GEL HERBICIDE

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

ACTIVE INGREDIENT:	Oxalanic acid ester of bromoxynil (3,5-dibromo-4-hydroxybenzonitrile)	16.6%
	Heptanoic acid ester of bromoxynil (3,5-dibromo-4-hydroxybenzonitrile)	17.8%
	Isooctyl ester of 2-methyl-chlorophenoxyacetic acid**	39.7%
INERT INGREDIENTS:		23.8%

\*Bromoxynil equivalent to 25.5% of bromoxynil or not less than 2.5 pounds of bromoxynil per gallon.  
 \*\*Equivalent to 25.5% methyl-chlorophenoxyacetic acid or not less than 2.5 pounds MCPA acid per gallon.

E.P.A. Reg. No. 264-544

E.P.A. Est. No.

## KEEP OUT OF REACH OF CHILDREN DANGER PELIGRO

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

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

For MEDICAL And TRANSPORTATION Emergencies ONLY Call 24 Hours A Day 1-800-334-7577.

### 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.

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER

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

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

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

Applicators and other handlers must wear coveralls over a long-sleeved shirt and long pants, chemical resistant gloves such as barrier laminate, butyl rubber, nitrile rubber, or viton gloves, a chemical resistant apron when cleaning equipment, protective eyewear, chemical resistant headgear for overhead exposure, and chemical resistant footwear plus socks.

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.

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 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.

Application from a tractor with a completely enclosed cab or aerial application is required whenever this product is applied to 360 or more acres in a day. The closed systems and enclosed cabs must be used 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.

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.)

ACCEPTED  
 Feb 13 1998  
 Under the Federal Insecticide,  
 Fungicide, and Rodenticide Act,  
 as amended, for the pesticide  
 registered under 264-544

### User Safety Recommendations

Users 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.

### CAUTION

BRONATE® Herbicide contains low volatile isooctyl ester of MCPA. At high air or ground surface temperatures, vapors from this product may cause injury to susceptible plants. This fact should be considered when applying BRONATE®.

### 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 intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 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 nitrile, viton or barrier laminate, chemical-resistant footwear plus socks, chemical-resistant headgear for overhead exposure and protective eyewear.

### STORAGE AND DISPOSAL

#### STORAGE

Do not contaminate water, food or feed by storage or disposal. Store at temperatures above 3° F.

#### 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

Offer for recycling or reconditioning, or dispose of in a sanitary landfill. Incinerate if allowed by state and local authorities, by burning. If burned, stay out of smoke.

### GENERAL INFORMATION

BRONATE® GEL is formulated as a gelatinous mixture containing the equivalent of 2.5 lbs. per gallon of bromoxynil and 2.5 pounds per gallon of isooctyl ester of MCPA. BRONATE® GEL is packaged in convenient water soluble bags.

BRONATE® GEL is a selective postemergence herbicide for control of important broadleaf weeds infesting small grains (wheat, barley, oats, rye), and conservation reserve program areas. Optimum weed control is obtained when BRONATE® GEL is applied to actively growing weed seedlings. BRONATE® GEL is primarily a contact herbicide, therefore thorough coverage of the weed seedlings is essential for optimum control.

BRONATE® GEL 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 BRONATE® GEL is mainly contact, 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.

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## MIXING, LOADING AND HANDLING INSTRUCTIONS

**GENERAL HANDLING INSTRUCTIONS:** Each BRONATE® GEL water soluble bag comes sealed in a clear plastic outer sleeve. Do not break the seal until the time of use. To use, open the end of the outer sleeve by tearing along the printed solid black line. Do not use a knife to break the seal. Once the outer protective sleeve is open, the water soluble bag inside can be dropped into the spray tank at the appropriate time without touching it.

**BRONATE® GEL ALONE:** Begin filling the spray tank with clean water. When bottom of spray tank is covered with water to a depth of 6-8 inches, add the recommended number of BRONATE® GEL soluble bags. Avoid dropping the soluble bags into the tank in such a way that the bags end up covering the recirculation and outlet holes. After adding bags, continue to fill tank with water. Allow 3-4 minutes after dropping bags into the tank for bags to dissolve before starting agitation. Tank should be at least 1/2 full when agitation is started. Continue adding water to tank to achieve the desired level. Maintain sufficient agitation to ensure a uniform spray mixture during application.

**BRONATE® GEL TANK-MIXTURES:** Begin filling the spray tank with clean water. When bottom of spray tank is covered with water to a depth of 6-8 inches, add the recommended number of BRONATE® GEL soluble bags. After adding bags, continue to fill tank with water. Allow 3-4 minutes after dropping bags into the tank for bags to dissolve before starting agitation. Tank should be at least 1/2 full when agitation is started. Add the recommended amount of wettable powder, soluble powder, flowable, EC or soluble liquid product to be tankmixed to the spray tank. Continue adding water to tank to achieve the desired level, while maintaining agitation.

**BRONATE® GEL TANK-MIXTURES WITH SPRAYABLE LIQUID FERTILIZERS OR SPRAY ADDITIVES:** Begin filling the spray tank with clean water. When bottom of spray tank is covered with water to a depth of 6-8 inches, add the recommended number of BRONATE® GEL soluble bags. After adding bags, continue to fill tank with water. Allow 3-4 minutes after dropping bags into the tank for bags to dissolve before starting agitation. Tank should be at least 1/2 full when agitation is started. Add the recommended amount of liquid fertilizer, surfactant or crop oil concentrate. Continue adding water to tank to achieve the desired level. If BRONATE® GEL is to be tankmixed with another dry or liquid pesticide formulation as well as liquid fertilizer or a spray adjuvant, add the liquid fertilizer or spray adjuvant to the tank last, then fill tank to desired level while maintaining agitation.

### HANDLING PRECAUTIONS

- Do not allow the empty outer sleeve or the tear-strip to fall into the spray tank as they are not water soluble and may clog the sprayer.
- Do not handle the inner bag with wet gloves as the bag will begin to dissolve on contact with even a small amount of water.
- Do not open the inner bags or attempt to remove the gel from them. The gel is not designed to be re-measured or subdivided.

## APPLICATION PROCEDURES

BRONATE® GEL can be applied to registered use areas by ground, and aerial equipment.

### 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(3) nozzles are not recommended as weed control with BRONATE® GEL 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 speed of 10 mph is suggested if field conditions cause excessive boom movement during application and subsequent poor spray coverage.

When weed infestations are heavy, use of higher spray volumes and spray pressure will be helpful in obtaining uniform weed coverage. Ground applications made when dry, dusty field conditions exist may provide reduced weed control in wheel track areas.

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.

### GENERAL WEED LIST

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

#### MOST SUSCEPTIBLE BROADLEAF WEED SPECIES

- Annual sowthistle (*Sonchus oleraceus*)
- Black mustard (*Brassica nigra*)
- Black nightshade (*Solanum nigrum*)
- Common cocklebur (*Xanthium strumarium*)
- Common lambsquarters (*Chenopodium album*)
- Common tarweed (*Hemizonia congesta*)
- Cow cockle (*Saponaria vaccaria*)
- Cutleaf nightshade (*Solanum triflorum*)
- Eastern black nightshade (*Solanum ptycanthum*)
- Coast fiddleneck (*Amsinckia intermedia*)
- Field pennycress (*Thlaspi arvense*)
- Green smartweed (*Polygonum scabrum*)
- Hairy nightshade (*Solanum sarachoides*)
- Horned Poppy (*Glaucium comiculatum*)
- Jimsonweed (*Datura stramonium*)
- Ladysthumb (*Polygonum persicaria*)
- London rocket (*Sisymbrium irio*)
- Marshelder (*Iva xanthifolia*)
- Pennsylvania smartweed (*Polygonum strumarium*)
- Pepperweed spp. (*Lepidium app.*)
- Redroot pigweed (*Amaranthus retroflexus*)
- Russian thistle (*Salsola kali*)
- Shepherdspurse (*Capsella bursa-pastoris*)
- Silverleaf nightshade (*Solanum elaeagnifolium*)
- Smooth pigweed (*Amaranthus hybridus*)
- Spiny pigweed (*Amaranthus spinosus*)
- <sup>1</sup>Sunflower (*Helianthus annuus*)
- Tall Waterhemp (*Amaranthus tuberculatus*)
- Tartary buckwheat (*Fagopyrum tataricum*)
- Tumble mustard (*Sisymbrium altissimum*)
- Wild buckwheat (*Polygonum convolvulus*)
- Wild mustard (*Sinapis arvensis*)
- Yellow rocket (*Barbarea vulgaris*)

#### SUSCEPTIBLE BROADLEAF WEED SPECIES

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

Weeds germinating after spraying will not be controlled.

#### WEED SUPPRESSION

- Canada Thistle (*Cirsium arvense*)

BRONATE® GEL Herbicide applied at 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.

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

### BRONATE® GEL RATE RECOMMENDATIONS

BRONATE® GEL is a 5.0 lb per gallon formulation packaged in water-soluble bags. Each BRONATE® GEL water-soluble bag contains 2.4 pints of the herbicide. When determining how much BRONATE® GEL to use, it must be noted that BRONATE® GEL is 25% more concentrated than BRONATE® Liquid. In addition, BRONATE® GEL is pre-measured. To determine how many bags of BRONATE® GEL to use, consult the application rate tables and recommendation charts for the crop to be sprayed. In those charts, the BRONATE® GEL use rates are given in pints/acre. Once the BRONATE® GEL application rate per acre is selected, consult the following tables to determine how many bags to use when mixing the spray.

### BRONATE® GEL RATE CONVERSION CHART

- Directions:
- 1) Select the desired BRONATE® GEL use rate (use the BRONATE® liquid rates for reference only).
  - 2) Select numbers of acres to be treated from the rate column selected in Step 1.
  - 3) The number of gel paks needed is listed in the far left hand column.

	BRONATE® GEL RATE TO USE PER ACRE			
	0.6 PINT  (EQUAL TO 3/4 PINT BRONATE® LIQUID)	0.8 PINT  (EQUAL TO 1 PINT BRONATE® LIQUID)	1.2 PINTS  (EQUAL TO 1 1/2 PINTS BRONATE® LIQUID)	1.6 PINTS  (EQUAL TO 2 PINTS BRONATE® LIQUID)
NUMBER OF BRONATE® GEL PAKS TO USE	ACRES TREATED			
1	4	3	2	1 1/2
2	8	6	4	3
3	12	9	6	4 1/2
4	16	12	8	6
5	20	15	10	7 1/2
6	24	18	12	9
7	28	21	14	10 1/2
8	32	24	16	12
9	36	27	18	13 1/2
10	40	30	20	15

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**WHEAT, BARLEY, OATS AND RYE  
BRONATE® GEL RECOMMENDATIONS**

PRODUCT	RATE <sup>1</sup>	APPLICATION TIMING AND SPECIFIC COMMENTS	
		CROP	WEEDS
BRONATE® GEL	0.8 pint/A	Fall seeded wheat, barley, oats and rye throughout the United States and spring seeded wheat, barley, oats and rye in Idaho, Oregon, Washington, Colorado, Wyoming and Montana.  Apply to wheat, barley, oats and rye 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.
	1.2 pints/A	Fall seeded wheat, barley, oats and rye throughout the United States and spring seeded wheat, barley, oats and rye in Idaho, Oregon, Washington, Colorado, Wyoming and Montana.  Apply to wheat, barley, oats and rye after the 3 leaf stage but before the crop reaches the boot stage.	<b>MOST SUSCEPTIBLE and 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.
	1.6 pints/A	Fall seeded wheat, barley, oats and rye throughout the United States and spring seeded wheat, barley, oats and rye in Idaho, Oregon, Washington, Colorado, Wyoming and Montana.  Apply to wheat, barley, oats and rye after the 3 leaf stage but before the crop reaches the boot stage.	Apply to henbit, knawel and mayweed up to the 4 leaf stage or 2 inches in height, whichever comes first. Apply to kochia and tansy mustard for improved control when these weeds exceed the recommended stage of growth or are growing under cool, dry conditions.
	0.8 pint/A	Spring seeded wheat and barley except Idaho, Oregon, Washington, Colorado, Montana, and Wyoming. Apply to wheat, barley, oats and rye after the 3 leaf stage but before the crop reaches the boot stage.	<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.
	1.2 pints/A	Spring seeded wheat and barley except Idaho, Oregon, Washington, Colorado, Montana, and Wyoming. Apply to wheat, barley, oats and rye after the 3 leaf stage but before the crop reaches the boot stage.	Apply to kochia that is 2-4 inches in height.

<sup>1</sup> Refer to BRONATE® Gel rate conversion chart.

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**BRONATE® GEL TANK MIXTURE RECOMMENDATIONS**

		APPLICATION TIMING AND SPECIFIC COMMENTS	
PRODUCT	RATE <sup>1</sup>	CROP	WEEDS
BRONATE® GEL + Rhonox <sup>6</sup> (MCPA ester)	0.6-1.2 pints/A + 1/4-1/2 pint/A	Apply to spring seeded wheat, barley, oats and rye from tillering stage, but before boot stage.	For control of MOST SUSCEPTIBLE and SUSCEPTIBLE weeds and improved control of redroot pigweed and kochia. Apply to weeds up to the 8 leaf stage, 3 inches in height or 2 inches in diameter, whichever comes first. Apply to kochia and redroot pigweed up to 2 inches in height or diameter.
BRONATE® GEL + Glean <sup>5</sup> + nonionic surfactant	0.6-1.2 pints/A + 1/6-1/3 oz/A + 1 qt/100 gal of water	Apply to wheat and barley after the 3 leaf stage but before the crop reaches the boot stage. Refer to Glean label for crop rotation and other restrictions.	This tankmix improves control of broadleaf weeds such as henbit, tansy mustard and chickweed. Apply to weeds up to the 8-leaf stage, 4 inches in height or 2 inches in diameter, whichever comes first.
BRONATE® GEL + Finesse <sup>5</sup> + nonionic surfactant	0.6-1.2 pints/A + 1/6-1/3 oz/A + 1 qt/100 gal of water	Apply to wheat and barley after the 3-leaf stage but before the crop reaches the boot stage. Refer to Finesse label for crop rotation and other restrictions.	This tankmix improves control of broadleaf weeds such as henbit, tansy mustard and chickweed. Apply to weeds up to the 8 leaf stage, 4 inches in height or 2 inches in diameter, whichever comes first.
BRONATE® GEL + Ally <sup>5</sup> + nonionic surfactant	0.6-1.2 pints/A + 1/10 oz/A + 1 qt/100 gal of water	Apply to wheat and barley after the 3-leaf stage but before the crop reaches the boot stage. Refer to Ally label for crop rotation and other restrictions.	This tankmix improves control of broadleaf weeds such as henbit, tansy mustard and chickweed. Apply to weeds up to the 8 leaf stage, 4 inches in height or 2 inches in diameter, whichever comes first.
BRONATE® GEL + Banvel <sup>7</sup>	0.6-1.2 pints/A + 1/8-1/4 pint/A	Fall seeded wheat after the 3 leaf stage but before jointing. Spring seeded wheat from the 3 to 5 leaf stage of growth.	This tankmix improves control of broadleaves such as prostrate knotweed and kochia. Apply to weeds up to the 8 leaf stage, 3 inches in height or 2 inches in diameter, whichever comes first. Apply to kochia up to 2 inches in height or diameter.
BRONATE® GEL + Harmony Extra <sup>5</sup> + nonionic surfactant	0.6-1.2 pints/A + 3/10 oz/A + 1 qt/100 gal of water	Winter wheat. Apply after the 3 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 3 leaf stage but before the 1st node is detectable. Refer to the Harmony Extra label for crop rotation and other restrictions.	This tankmix improves control of broadleaf weeds such as henbit, chickweed and redroot pigweed. Apply to weeds up to the 8 leaf stage, 4 inches in height or across, whichever comes first.
BRONATE® GEL + Amber <sup>8</sup> + nonionic surfactant	0.6-1.2 pints/A + 0.28 - 0.56 oz/A + 0.25 - 0.5% v/v	Apply to wheat and barley after the 3 leaf stage, but before the flag leaf is visible. Refer to the Amber label for crop rotation and other restrictions.	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.

<sup>1</sup> Refer to BRONATE® Gel rate conversion chart.



WHEAT, BARLEY, OATS AND RYE

BRONATE® GEL TANK MIXTURE RECOMMENDATIONS (continued)

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		APPLICATION TIMING AND SPECIFIC COMMENTS	
PRODUCT	RATE <sup>1</sup>	CROP	WEEDS
BRONATE® GEL + Express <sup>5</sup> + nonionic surfactant	0.6-1.2 pints/A + 1/6-1/3 oz/A + 1 qt/100 gal of water	Wheat and barley. Apply after the 3 leaf stage but before the flag is visible. Refer to the Express label for crop rotation and other restrictions.	This tankmix improves control of broadleaf weeds such as henbit, chickweed, redroot pigweed and suppression of Canada thistle. Apply to annual weeds up to the 8 leaf stage, 4 inches in height or across, whichever comes first and to Canada thistle 4 to 8 inches tall with 2 to 6 inches of new growth.
BRONATE® GEL + Curtail <sup>4</sup> or Curtail M <sup>4</sup>	0.6-1.2 pints/A + 2 pints/A	Apply to wheat and barley after the crop begins to tiller up to the 1st node detectable.	This tankmix improves control of kochia, wild buckwheat and suppression of Canada thistle. Apply to annual broadleaf weeds up to the 8 leaf stage, 4 inches in height or 2 inches in diameter and to Canada thistle in the rosette to prebud stage.
BRONATE® GEL + metribuzin (Sencor <sup>2</sup> or Lexone <sup>5</sup> )	0.8 pint/A + 1/8-3/16 lb ai/A	Winter wheat in Idaho, Oregon and Washington. Apply in spring after growth has started and secondary roots with a minimum of 3 to 4 tillers have been established, but before the forming of joints in the stem. Avoid application when crop has experienced winter kill, frost damage, disease or drought.	This tankmix improves control of broadleaf weeds such as chickweed, filaree, henbit. Apply to weeds up to the 4 leaf stage, 2 inches in height or diameter, whichever comes first. A recognized authority should be consulted concerning the use of this mixture in your area.
BRONATE® GEL + Avenge <sup>1</sup>	0.8-1.6 pints/A + 2 1/2-4 pints/A	Winter wheat. Four leaf to tillering stage. Refer to Avenge label for varietal and other restrictions.  Spring Wheat. Five to 6 leaf stage. Refer to Avenge label for varietal and other restrictions.  Barley. Three to 7 leaf stage.	This tankmix will provide wild oat control in addition to broadleaves. Apply to wild oats in the 3-5 leaf stage and broadleaves that do not exceed the 4 leaf stage or rosettes of 1.5 inches in diameter. Avenge use rates per acre are 2 1/2 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.).
BRONATE® GEL + Assert <sup>1</sup>	0.8-1.2 pints/A + 1 1/5-1 1/2 pints/A	Apply to wheat and barley after the 3 leaf stage but before boot stage. Refer to Assert label for crop rotation and other restrictions.	This tankmix will provide wild oat control in addition to broadleaf weeds. Apply to wild oats at the 1-4 leaf stage and broadleaf weeds up to the 8 leaf stage, 4 inches in height or 2 inches in diameter, whichever comes first. Use Assert at 1 1/2 pints/A west of the Rocky Mountains or if wild oats have initiated tillering. For spray volumes in excess of 10 GPA, add 0.3 fluid oz of nonionic surfactant for each gallon in excess of 10 GPA.

**Restrictions and Precautions: Wheat, Barley, Oats and Rye**

- Do not graze treated wheat, oat or rye fields within 30 days after application.
- Do not graze treated barley fields.
- Do not apply when crops are under moisture stress.
- Do not apply when crop canopy covers the weeds as poor control will result.
- 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.

<sup>1</sup> Refer to BRONATE® Gel rate conversion chart.

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# CONSERVATION RESERVE PROGRAM AREAS (CRP)

## BRONATE® GEL RECOMMENDATIONS

PRODUCT	RATE <sup>1</sup>	APPLICATION TIMING AND SPECIFIC COMMENTS	
		CROP	WEEDS
BRONATE® GEL	0.8-1.6 pints/A	Apply to grasses after the 3 leaf stage.	Apply 0.8 pint/A to MOST SUSCEPTIBLE and 1.2 - 1.6 pints/A to SUSCEPTIBLE broadleaf weeds up to the 8 leaf stage, 4 inches in height or 2 inches in diameter, whichever comes first.

### RESTRICTIONS AND PRECAUTIONS: CRP AREAS

- Do not allow livestock to graze in treated areas or feed treated grass to livestock.
- If legumes are included in CRP area planting, severe injury may occur to legumes treated with BRONATE® GEL.
- <sup>1</sup> Refer to BRONATE® Gel rate conversion chart.

### 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 effectiveness, of toxicity to laboratory animals and to plants, and of residues on food crops, and upon reports of field experience. Tests have not been made on all varieties or in all states or under all conditions. THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE, ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

THIS WARRANTY DOES NOT EXTEND TO, AND THE BUYER SHALL BE SOLELY RESPONSIBLE FOR, ANY AND LOSS OR DAMAGE WHICH RESULTS FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL DIRECTIONS, WARNINGS OR CAUTIONS.

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### NOTICE TO BUYER

Purchase of this material does not confer any rights under patents governing this product or the use thereof in countries outside of the United States.

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- <sup>4</sup>Registered trademark of Dow Chemical Company.
- <sup>5</sup>Registered trademark of E.I. DuPont DeNemours and Co.
- <sup>6</sup>Registered trademark of Rhone-Poulenc Ag Company.
- <sup>7</sup>Registered trademark of Sandoz Crop Protection Corporation.
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