

359

SPECIMEN LABEL

PRODUCT NUMBER
2038

BRONATE®

ACCEPTED
FEB - 4 1985
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 227-611

HERBICIDE



leaf weeds in wheat, barley,

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Bronate is a selective postemergence product for control of broadleaf weeds in small grains.

To broaden the spectrum of control, Bronate 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.

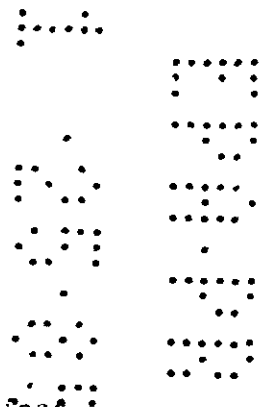
GENERAL WEED LIST

Postemergence application of Bronate 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	(Sonchus oleraceus)
Black mustard	(Brassica nigra)
Black nightshade	(Solanum nigrum)
Common cocklebur	(Xanthium pennsylvanicum)
Common lambsquarters	(Chenopodium album)
Common Tarweed	(Hemizonia congesta)
Cow cockle	(Saponaria vaccaria)
Eastern black nightshade	(Solanum peltanthum)
Coast Fiddleneck	(Amsinckia intermedia)
Field pennycress	(Thlaspi arvense)
Green smartweed	(Polygonum scabrum)
Hairy nightshade	(Solanum sarachoides)
Jimsonweed	(Datura stramonium)
Ladysthumb	(Polygonum persicaria)
London Rocket	(Sisymbrium irio)
Marshelder	(Iva xanthifolia)
Pennsylvania smartweed	(Polygonum pennsylvanicum)
Pepperweed spp.	(Lepidium spp.)
Redroot pigweed	(Amaranthus retroflexus)
Russian thistle	(Salsola kali)
Shepherdspurse	(Capsella bursa-pastoris)
Silverleaf nightshade	(Solanum elaeagnifolium)
Smooth pigweed	(Amaranthus hybridus)
Spiny pigweed	(Amaranthus spinosus)
1/ Sunflower	(Helianthus annuus)
Tall Waterhemp	(Amaranthus tuberculatus)

NOTE TO TYPESETTER:
 Latin names are in italics.
 Place a letter in the example:
 Annual sowthistle (Sonchus oleraceus)



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

Tartary buckwheat
 Tumble mustard
 Wild buckwheat
 Wild mustard
 Yellow rocket

(Fagopyrum tataricum)
 (Sisymbrium altissimum)
 Polygonum convulvulus)
 (Brassica kaber,
 Barbarea vulgaris)

SUSCEPTIBLE BROADLEAF WEEDS

Blue (purple) mustard
 Common groundsel
 Common ragweed
 Corn chamomile
 Corn groundsel
 Fumitory
 Giant ragweed
 Hemp sesbania
 - Henbit
 Ivyleaf morningglory
 Knawel
 - Kochia
 - Mayweed
 Prostrate knotweed
 Tall morningglory
 Tansy mustard
 Tarweed
 Velvetleaf

 Wild Radish

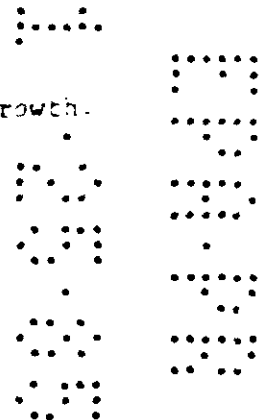
(Chenopodium tenellum)
 (Chenopodium vulvaris)
 (Amaranthus artemisiifolia)
 (Anthemis arvensis)
 (Lithospermum arvense)
 (Fumaria officinalis)
 (Amaranthus trifida)
 (Sesbania exaltata)
 (Lamium amplexicaule)
 (Ipomoea hederacea)
 (Amaranthus annuus)
 (Kochia scoparia)
 (Anthemis cotula)
 (Polygonum aviculare)
 (Ipomoea purpurea)
 (Descurainia binnata)
 (Hemibryonia)
 (Amaranthus hybridus)

 (Raphanus raphanistrum)

Use Bronate at 1 pint/A for control of henbit, knawel and mayweed up to the 4-leaf stage or 2 inches in height, whichever comes first. Weeds germinating after spraying will not be controlled.

WEED SUPPRESSION

Canada Thistle (Cirsium arvense)
 Bucril applied at 1 1/2-2 pints per acre provides burn down of top growth. Regrowth may occur. Make applications when Canada Thistle is 3 inches tall to the bud stage.



WHEAT, BARLEY, OATS, AND RYE

Bronate may be applied to wheat and barley from the 3 leaf stage up to the boot stage. Applications should be made 2 weeks 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 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, follow all cautions and limitations on this label and the labels of products used in tank mixtures with Bronate.

MIXING INSTRUCTIONS

BRONATE 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 tankmixing with Glean, add the recommended amount of Glean first. After Glean is thoroughly mixed with water, add the recommended amount of Bronate and add water to the spray tank to the desired level. If tankmixing with Avenge[®] or MCPA, add the recommended amount of Bronate 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 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 60 mesh in the nozzle tips and inline strainers.

Applications of Bronate used alone and in tank mixtures should be used at minimum spray volume of 1 gallon per acre with a minimum spray pressure of 50 psi at the nozzle tips.

AERIAL APPLICATION

Bronate 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 x 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.

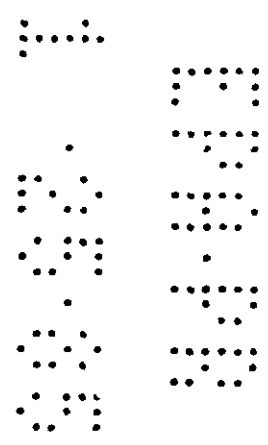
The aircraft should discharge the spray a maximum of 10 feet above the crop. To minimize drift, do not apply during periods of gusty winds or when wind exceeds 5 mph.

SPRAYABLE LIQUID FERTILIZERS

Bronate 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 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.



WHEAT AND BARLEY

General and Variable Applications

BRONATE RECOMMENDATIONS

PRODUCT	CROP/GEOGRAPHICAL AREA	RATE	CROP	TIMING OF APPLICATION
BRONATE	Fall seeded wheat and barley through out the United States and spring seeded wheat and barley in Idaho, Oregon and Washington	1.0-1.5 lb/A		Apply to wheat and barley after the seed has been planted before the plants have developed roots.
		1.0-1.5 lb/A		
		1.0-1.5 lb/A		
	Spring seeded wheat and barley in Idaho, Oregon and Washington	1.0-1.5 lb/A		Apply to wheat and barley after the seed has been planted before the plants have developed roots.
		1.0-1.5 lb/A		

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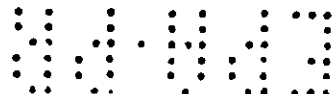
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BRONATE TANKMIXTURE RECOMMENDATIONS

PRODUCT	CROP/ GEOGRAPHICAL AREA	RATE	TIMING OF APPLICATION	
			CEREAL	WEED
Ectopic (Tankmix)	Fall seeded wheat and barley throughout the Inland States and spring seeded wheat and barley in Idaho, Oregon and Washington	1.0 pints/A *	Apply to wheat and barley after the 3-leaf stage but before the 5-leaf stage	Apply to weeds up to the 3-leaf stage or earlier if available, whichever comes first. If weeds are too heavy, apply to the weeds, exceed 3 inches in diameter.
	Fall seeded wheat and barley in Idaho, Oregon and Washington	1.0 pints/A *	Apply to wheat and barley after the 3-leaf stage but before the 5-leaf stage	Apply to weeds up to the 3-leaf stage or earlier if available, whichever comes first. If weeds are too heavy, apply before weeds exceed 3 inches in diameter.
Ectopic (Tankmix)	Fall seeded wheat and barley in Idaho, Oregon and Washington	1.0 pints/A *	Apply to wheat and barley after the 3-leaf stage but before the 5-leaf stage	Apply to weeds up to the 3-leaf stage or earlier if available, whichever comes first. If weeds are too heavy, apply before weeds exceed 3 inches in diameter.
	Fall seeded wheat and barley in Idaho, Oregon and Washington	1.0 pints/A *	Apply to wheat and barley after the 3-leaf stage but before the 5-leaf stage	Apply to weeds up to the 3-leaf stage or earlier if available, whichever comes first. If weeds are too heavy, apply before weeds exceed 3 inches in diameter.

A TANKMIX APPLICATION OF BRONATE AND CLEAN BROADLEAF WILL PROVIDE WEED CONTROL. SEE CLEAN LABEL FOR LISTING OF ADDITIONAL BROADLEAF WEED SPECIES AND CROP ROTATION RESTRICTIONS.

CLEAN IS A TRADEMARK OF THE TRADE PROMOTION BOARD, INC.



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the 3 to 7 leaf stage, spring seeded wheat in the 3 to 6 leaf stage, and fall seeded 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 AND MCPA

A tank mixture of Bronate at the recommended rate and MCPA at 1/4 lbai/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 label. The rate of Bronate in the tank mixture is the same as when Bronate is used alone. See BRONATE RECOMMENDATIONS.

A tank mixture of Bronate + 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 alone and in a tank mixture with MCPA can be applied to oats and rye. Recommendations for Bronate alone and in a tank mixture with MCPA for use on oats and rye are the same as for wheat and barley.

Local conditions may affect the use of this chemical. Consult State Agricultural Extension or Experiment Station weed specialists for specific recommendations for local weed problems.

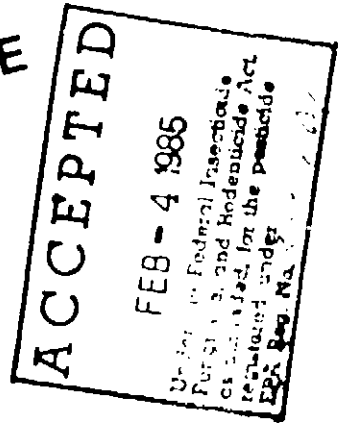
CONDITION OF SALE, WARRANTY, LIMITATION OF LIABILITY

This product conforms to the chemical description on the label thereof and is reasonably fit for the purpose stated on such label only when used in accordance with directions under normal use conditions. Follow directions carefully. Timing and method of application, weather and crop conditions, mixture with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of Rhone-Poulenc or the seller. Buyer assumes all risks of use, storage, or handling of this material, not in strict accordance with directions given herewith. In no case shall Rhone-Poulenc or the seller be liable for consequential, special, or indirect damages such as loss of profits or values resulting from the use or handling of this product.

SUPPLEMENTAL LABELING
EPA Reg. No. 359-601

Product Number
2038

BRONATE HERBICIDE



APPLICATION THROUGH AUTOMATED SPRINKLER IRRIGATION SYSTEMS

DIRECTIONS FOR USE

- CROP: Fall and spring seeded wheat and barley.
- GEOGRAPHIC AREA: Use only in the states of Idaho, Kansas, Montana, Nebraska, Nevada, Oregon, South Dakota, Washington and Wyoming.
- TARGET PEST: Refer to the package label for susceptible weed species.
- WHEN TO APPLY: Bronate 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.
- AMOUNT TO USE: Use 2 pints per acre in 0.25 to 0.5 acre-inch of water for control of the following weeds:

MOST SUSCEPTIBLE BROADLEAF WEEDS: 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.

SUSCEPTIBLE BROADLEAF WEEDS: Apply to weeds up to the 4 leaf stage or 2 inches in height, whichever comes first. If weed forms rosette, apply before weed exceeds 1 inch in diameter.

HOW TO APPLY: Apply with automated sprinkler systems using a properly engineered chemical injection system which includes anti-siphon and check valves to prevent water source contamination and overflow of the mix tank. The system should also include interlocking controls between the metering device and the water pump to ensure simultaneous shutoff. The sprinkler system should provide uniform coverage and should have no leaks. The chemical injection tank should be cleaned before application to remove all fertilizer, pesticides and foreign matter. Add Bronate, or a Bronate water mix to injector tank. A solution of Bronate diluted with water can be used only where agitation is present

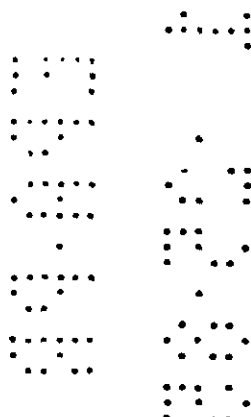
HOW TO APPLY continued:

in mix tank to achieve higher volumes needed in some irrigation systems. Carefully calibrate the system before and during application. Allow sufficient time for Bronate to be flushed through the system before turning off the irrigation water. Bronate contains a low volatile ester of MCPA in addition to bromoxynil. Special precautions must be used to not apply Bronate when climatic conditions favor drift or vapor movement to non-target areas.

This labeling must be in the possession of the user at the time of pesticide application.

All applicable directions, restrictions, and precautions on the EPA-registered label are to be followed.

0185



RHÔNE-POULENC INC.

AGROCHEMICAL DIVISION

Monmouth Junction, New Jersey 08852

ACCEPTED
 FEB - 4 1985
 General Insecticide,
 Fungicide and Herbicide Act,
 approved for the pesticide
 registration number
 EPA Reg. No. /

BRONATE and
HERBICIDE
 (EPA Reg No 359-601)



METRIBUZIN
 Herbicide
 (Sencor/Lexon)
 (EPA Reg.No. *)

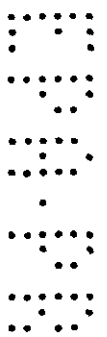
TANK MIX

DIRECTIONS FOR USE

- CROP:** Fall seeded wheat and barley and spring seeded barley.
- GEOGRAPHIC AREA:** 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 lbai/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 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



Aerial Application (continued)

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 Co., Inc.

- | | |
|---|----------------------------|
| * Sencor DF 75% Dry Flowable Herbicide | (EPA Reg. No. 3125-325) |
| Sencor 50% Wettable Powder Herbicide | (EPA Reg. No. 3125-277-AA) |
| Sencor 4 Flowable Herbicide | (EPA Reg. No. 3125-314) |
| Lexone DF Weed Killer Dispersable Granule | (EPA Reg. No. 352-390) |
| Lexone 4L Weed Killer | (EPA Reg. No. 352-382) |
| Lexone Weed Killer Wettable Powder | (EPA Reg. No. 352-375) |

This labeling must be in the possession of the user at the time of pesticide application.

0185

RHÔNE-POULENC INC.

AGROCHEMICAL DIVISION

Monmouth Junction, New Jersey 08852

PRODUCT NUMBER
2038

NOT RECORDED
In Accordance with EPA Reg. 162.106-2.
Based on data received dated 2-4-55

BRONATE[®] HERBICIDE



For the control of certain broadleaf weeds in wheat, barley, oats and rye.

ACTIVE INGREDIENT:

Octanoic acid ester of bromoxynil* (3,5-dibromo-4-hydroxybenzoxynil) 31.7%

Isocetyl ester of 2-methyl-4-chlorophenoxyacetic acid* 24.0%

INERT INGREDIENTS 44.3%

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-4-chlorophenoxyacetic acid or not less than 2.0 lbs. MCPA per gallon.

Keep Out of Reach of Children
WARNING
STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Get medical attention. Do not induce vomiting. 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.
See Side Panel for Additional Precautionary Statements

EPA Reg. No. 359-801
EPA Est. 359-MO-1
EPA Est. 359-OR-1
0385

NET CONTENTS
GALLONS
LITERS

Manufactured By :

RHÔNE-POULENC INC.
AGROCHEMICAL DIVISION

Monmouth Junction, New Jersey 08852 - Telephone (201) 297-1100

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

WARNING

Harmful if swallowed, absorbed through skin or inhaled. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse.

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.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

STORAGE AND DISPOSAL

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

STORAGE:

Do not store near fertilizers or seeds. Store at temperatures above 3°F. If allowed to freeze remix before using.

PESTICIDE DISPOSAL:

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL:

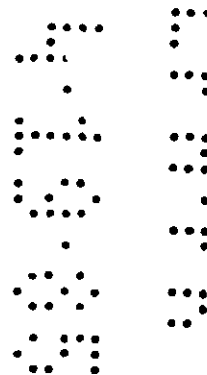
Metal: Triple rinse (or equivalent). Then puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

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

GENERAL INFORMATION

Bronate is a selective postemergence product for control of broadleaf weeds in small grains.

To broaden the spectrum of control, Bronate may be tankmixed with Glyph, 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 the tank mixture with Bronate.



GENERAL WEED LIST

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

MOST SUSCEPTIBLE BROADLEAF WEED SPECIES:

- Annual Sowthistle (*Sonchus oleraceus*)
- Black Mustard (*Brassica nigra*)
- Black Nightshade (*Solanum nigrum*)
- Common Cocklebur (*Xanthium pennsylvanicum*)
- Common Lambsquarters (*Chenopodium album*)
- Common Tarweed (*Hemizonia longifolia*)
- Low Cockle (*Saponaria vaccaria*)
- Eastern Black Nightshade (*Solanum ptycanthum*)
- Coast Fiddleneck (*Amsinckia intermedia*)
- Field Pennycress (*Thlaspi arvense*)
- Green Smartweed (*Polygonum persicaria*)
- Hairy Nightshade (*Solanum elaeagnifolium*)
- Jimsonweed (*Datura stramonium*)
- Lady's thumb (*Polygonum persicaria*)
- London Rocket (*Sisymbrium*)
- May Weeder (*Iva xanthifolia*)
- Pennsylvania Smartweed (*Polygonum pennsylvanicum*)
- Pepperweed spp. (*Espidium*)
- Redroot Pigweed (*Amaranthus retrofractus*)
- Russian Thistle (*Salsola kali*)
- Shepherdspurse (*Capsella bursa-pastoris*)
- Silverleaf Nightshade (*Solanum elaeagnifolium*)
- Smooth Pigweed (*Amaranthus hybridus*)
- Spongy Pigweed (*Amaranthus spinosus*)
- Sunflower (*Helianthus annuus*)
- Tall Waterhemp (*Amaranthus tuberosus*)
- Tartary Buckwheat (*Fagopyrum tataricum*)
- Tumble Mustard (*Sisymbrium irio*)
- Wild Buckwheat (*Polygonum convolvulus*)
- Wild Mustard (*Brassica kaber*)
- Yellow Rocket (*Barbarea vulgaris*)

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

SUSCEPTIBLE BROADLEAF WEED SPECIES:

- Blue (purple) Mustard (*Chlorispora tenella*)
- Common Groundsel (*Senecio vulgaris*)
- Common Ragweed (*Ambrosia artemisiifolia*)
- Corn Chamomile (*Anthemis arvensis*)
- Corn Groundsel (*Thlaspi arvense*)
- Eumatory (*Eumaria officinalis*)
- Giant Ragweed (*Ambrosia trifida*)
- Hemp Nettle (*Cesbium exaltata*)
- Henbit (*Lamium amplexicaule*)
- Leafy Spurge (*Euphorbia hederacea*)
- Knawel (*Thlaspi arvense*)
- Mayweed (*Anthemis arvensis*)
- Redroot Pigweed (*Polygonum aviculare*)
- Tall Mustard (*Brassica purpurea*)
- Tarweed (*Hemizonia longifolia*)
- Wild Radish (*Raphanus raphanistrum*)

2. Use Bronate at 2 pints/A for control of henbit, knawel and mayweed up to the 4 leaf stage or 2 inches in height, whichever comes first. Weeds germinating after spraying will not be controlled.

WEED SUPPRESSION

Canada Thistle (*Cirsium arvense*)
 Bronate 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 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 or cold temperatures. Avoid spray drift to non target areas. Do not graze treated fields for 30 days following application.

Bronate 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, follow all directions and limitations on this label and the labels of products used in tank mixtures with Bronate.

MIXING INSTRUCTIONS

BRONATE 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, and add water to the spray tank to the desired level. If tank mixing with Avenge or MCPA, add the recommended amount of Bronate 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 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 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

Bronate 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 in a pattern 10 feet above the crop. To minimize drift, do not apply during periods of gusty winds or when wind exceeds 10 mph.

SPRAYABLE LIQUID FERTILIZERS

Bronate 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 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 the time of application.

**WHEAT and BARLEY
(Ground and Aerial Applications)
BRONATE RECOMMENDATIONS**

		TIMING OF APPLICATION		
PRODUCT	CROP/GEOGRAPHICAL AREA	RATE	CROP	WEED
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 2 leaf stage but before the 3 leaf stage	Most Susceptible Broadleaf Weeds Apply to weeds up to the 2 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		Susceptible Broadleaf Weeds 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.
	2 Pints/A		Apply to henbit, knawel and other weeds up to the 2 leaf stage or 2 inches in height, whichever comes first.	
	Spring seeded wheat and barley except Idaho, Oregon and Washington	1 Pint/A		Most Susceptible and Susceptible Broadleaf Weeds Apply to weeds that do not exceed 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 henbit, knawel and other weeds up to 4 inches in height.
		1 1/2 Pints/A		Apply to control weeds that exceed 4 inches in height.

WHEAT and BARLEY
(Ground and Aerial Applications)
BRONATE TANK MIXTURE RECOMMENDATIONS

TIMING OF APPLICATION				
PRODUCT	CROP/GEOGRAPHICAL AREA	RATE	CROP	WEED
Bronate + Glean (Tankmix)	Fall seeded wheat and barley throughout the United States and spring seeded wheat and barley in Idaho, Oregon and Washington	1/2 Pint/A + 1/2 ounce/A	Apply to wheat and barley after the 2 leaf stage but before the crop reaches the boot stage	Most Susceptible Broadleaf Weeds 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 Pint/A + 1 ounce/A		Susceptible Broadleaf Weeds 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 + 1 ounce/A	Most Susceptible and Susceptible Broadleaf Weeds 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 + 1 1/2 ounce/A	Apply to control kochia that is to 4 inches in height		

A tankmix application of Bronate 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 & Co., Inc.

BRONATE and AVENGE

A tank mixture of Bronate + 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 in the tank mixture is the same as when Bronate is used alone. See BRONATE RECOMMENDATIONS.

Apply Bronate + 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 seeded 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 and MCPA

A tank mixture of Bronate at the recommended rate and MCPA at 1/4 lb/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 label. The rate of Bronate in the tank mixture is the same as when Bronate is used alone. See BRONATE RECOMMENDATIONS.

A tank mixture of Bronate + 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 alone and in a tank mixture with MCPA can be applied to oats and rye. Recommendations for Bronate alone and in a tank mixture with MCPA for use on oats and rye are the same as for wheat and barley.

Local conditions may affect the use of this material. Consult State Agricultural Extension or Experiment Station weed specialists for specific recommendations for local weed problems.

CONDITIONS OF SALE WARRANTY LIMITATION OF LIABILITY

This product conforms to the description on the label thereon and is responsible for the purpose stated on such label only when used in accordance with directions under normal use conditions. Follow directions carefully. Timing and method of application, weather conditions, and its mixture with other chemicals not specifically recommended are other influencing factors in the use of this product. The user of this product assumes all risks of use, storage, or handling of this material, not in strict accordance with directions given on the label and the label of the same, be made for consequential, special, or indirect damages such as loss of profits or values resulting from the use or handling of this product.

LBL 5150

SUPPLEMENTAL LABELING

NOT PRINTED

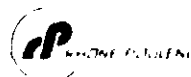
In Accordance with EPA Order No. 32-2.

Based on data submitted dated 12-4-81

BRONATE

HERBICIDE

(EPA Reg. No. 359-601)



and **METRIBUZIN**

HERBICIDE

(Sencor/Lexone)

(EPA Reg. No. *)

TANK MIX

DIRECTIONS FOR USE

- CROP:** Fall seeded wheat and barley and spring seeded barley
- GEOGRAPHIC AREA:** Use only in the states of Idaho, Oregon and Washington
- TARGET PEST:** Henbit, oxleaf speedwell, mayweed and fanny 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. Refer to package label for list of weeds controlled by Bronate.
- RATE:** Apply Bronate at 1 pint per acre and metribuzin (Sencor/Lexone) at 1.5 lbs/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 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.

Sencor is a registered trademark of The Dow Chemical Company, Fort Worth, Texas 76102.

Lexone is a registered trademark of Rhône-Poulenc, Paris, France.

- * Sencor DE-75 Dry Flowable Herbicide (EPA Reg. No. 3125-025)
- Sencor 50 Wettable Powder Herbicide (EPA Reg. No. 3125-027)
- Sencor 4 Flowable Herbicide (EPA Reg. No. 3125-014)
- Lexone DE Weed Killer Dispensable Granule (EPA Reg. No. 352-390)
- Lexone 4L Weed Killer (EPA Reg. No. 352-382)
- Lexone Weed Killer Wettable Powder (EPA Reg. No. 352-375)

This labeling must be in the possession of the user at the time of pesticide application

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LBL 5147

RHÔNE-POULENC INC.
AGROCHEMICAL DIVISION

Monmouth Junction, New Jersey 08852

SUPPLEMENTAL LABELING
EPA Reg. No. 359-601

Product Number
2038

BRONATE[®] HERBICIDE

APPLICATION THROUGH AUTOMATED SPRINKLER IRRIGATION SYSTEMS

DIRECTIONS FOR USE

- CROP:** Fall and spring seeded wheat and barley
- GEOGRAPHIC AREA:** Use only in the states of Colorado, Idaho, Kansas, Montana, Nebraska, Nevada, Oregon, South Dakota, Washington and Wyoming
- TARGET PEST:** Refer to the package label for susceptible weed species
- WHEN TO APPLY:** Bronate 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
- AMOUNT TO USE:** Use 2 pints per acre in 0.25 to 0.5 acre inch of water for control of the following weeds
- MOST SUSCEPTIBLE BROADLEAF WEEDS:** 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
- SUSCEPTIBLE BROADLEAF WEEDS:** Apply to weeds up to the 4 leaf stage or 2 inches in height, whichever comes first. If weed forms rosette, apply before weed exceeds 1 inch in diameter

HOW TO APPLY: Apply with automated sprinkler systems using a properly engineered chemical injection system which includes anti siphon and check valves to prevent water source contamination and overflow of the mix tank. The system should also include interlocking controls between the metering device and the water pump to ensure simultaneous shutoff. The sprinkler system should provide uniform coverage and should have no leaks. The chemical injection tank should be cleaned before application to remove all fertilizer, pesticides and foreign matter. Add Bronate or a Bronate water mix to injector tank. A solution of Bronate diluted with water can be used only where agitation is present in mix tank to achieve higher volumes used in some irrigation systems. Carefully calibrate the system before and during application. Allow sufficient time for Bronate to be flushed through the system before turning off the irrigation water. Bronate contains a low volatile ester of MCPA in addition to bromoxynil. **Special precautions must be used to not apply Bronate when climatic conditions favor drift or vapor movement to non-target areas.**

This labeling must be in the possession of the user at the time of pesticide application.
All applicable directions, restrictions, and precautions on the EPA registered label are to be followed.

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LB 3346

Product Number
2038

BRONATE[®] HERBICIDE



APPLICATION THROUGH AUTOMATED SPRINKLER IRRIGATION SYSTEMS

DIRECTIONS FOR USE

- CROP:** Fall and spring seeded wheat and barley
- GEOGRAPHIC AREA:** Use only in the states of Colorado, Idaho, Kansas, Montana, Nebraska, Nevada, Oregon, South Dakota, Washington and Wyoming
- TARGET PEST:** Refer to the package label for susceptible weed species
- WHEN TO APPLY:** Bronate 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
- AMOUNT TO USE:** Use 2 pints per acre in 0.25 to 0.5 acre inch of water for control of the following weeds:
- MOST SUSCEPTIBLE BROADLEAF WEEDS:** 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
- SUSCEPTIBLE BROADLEAF WEEDS:** Apply to weeds up to the 4 leaf stage or 2 inches in height, whichever comes first. If weed forms rosette, apply before weed exceeds 1 inch in diameter

HOW TO APPLY: Apply with automated sprinkler systems using a properly engineered chemical injection system which includes anti siphon and check valves to prevent water source contamination and overflow of the mix tank. The system should also include interlocking controls between the metering device and the water pump to ensure simultaneous shutoff. The sprinkler system should provide uniform coverage and should have no leaks. The chemical injection tank should be cleaned before application to remove all fertilizer, pesticides and foreign matter. Add Bronate or a Bronate water mix to injector tank. A solution of Bronate diluted with water can be used only where agitation is present in mix tank to achieve higher volumes mixed in some irrigation systems. Carefully calibrate the system before and during application. Allow sufficient time for Bronate to be flushed through the system before turning off the irrigation water. Bronate contains a low volatile ester of MCPA in addition to bromoxynil. **Special precautions must be used to not apply Bronate when climatic conditions favor drift or vapor movement to non-target areas.**

This labeling must be in the possession of the user at the time of pesticide application.
All applicable directions, restrictions, and precautions on the EPA registered label are to be followed.

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CB 546