

PRODUCT NUMBER
2038

364-601
SPECIMEN LABEL 1 of 6

ACCEPTED

HERBICIDE

Transferred to
364-421

BRONATE®



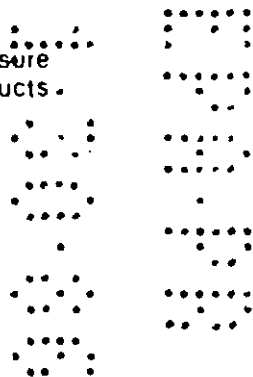
RHÔNE-POULENC

... seeds in wheat, barley,

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 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 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 pensylvanicum*)
Common Lambsquarters (*Chenopodium album*)
Common Tarweed (*Hemizonia congesta*)
Cow Cockle (*Saponaria vaccaria*)
Eastern Black Nightshade (*Solanum elaeagnifolium*)
Coast Fiddleneck (*Amsinckia intermedia*)
Field Fennycress (*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 pensylvanicum*)
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*)
Tartary Buckwheat (*Fagopyrum tataricum*)
Tumble Mustard (*Sisymbrium altissimum*)
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 Gromwell (*Lithospermum arvense*)
Fumitory (*Fumaria officinalis*)
Giant Ragweed (*Ambrosia trifida*)
Hemp Sesbania (*Sesbania exaltata*)
2/ Henbit (*Lamium amplexicaule*)
Ivyleaf Morningglory (*Ipomoea hederacea*)
2/ Knapweed (*Scleranthus annuus*)
Kochia (*Kochia scoparia*)
2/ Mayweed (*Anthemis cotula*)
Prostrate Knotweed (*Polygonum aviculare*)
Tall Morningglory (*Ipomoea purpurea*)
Tansy Mustard (*Descurainia pinnata*)
Tarweed (*Hemizonia* spp.)
Velvetleaf (*Abutilon theophrasti*)
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 1½-2 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 with 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 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 ½ to ¾ 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 ½ to ¾ 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 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 1/4 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 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 3 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 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 mayweed up to the 4 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 kochia up to 2 inches in height.
		1 1/2 Pints/A		Apply to control kochia that is 2 to 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	¾ Pint/A + ¼ ½ ounce/A	Apply to wheat and barley after the 3 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 + ¼ ½ 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
	Spring seeded wheat and barley except Idaho, Oregon and Washington	1 Pint/A + ¼ ½ 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
		1½ Pints/A + ¼ ½ ounce/A		Apply to control kochia that is 2 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 ¼ 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.

CONDITIONS OF SALE, WARRANTY, LIMITATION OF LIABILITY

This product conforms to the chemical description of 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 value resulting from the use or handling of this product.

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