

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

December 19, 2022

Matthew Graneto Senior Regulatory Manager Bayer CropScience 800 N. Lindbergh Blvd. St. Louis, MO 63167

Subject: Registration Review Label Amendments Incorporating Mitigation Measures from the Interim Decisions for Bromoxynil and MCPA and the National Marine Fisheries Services' (NMFS) Biological Opinion on the Effects of Bromoxynil on Pacific Salmonids *Product Name*: BRONATE ADVANCED HERBICIDE *EPA Registration Number*: 264-690 *Application Dates*: 4/17/2020, 8/26/2021, and 11/9/2022 *Decision Numbers*: 561926, 578093, and 588712

Dear Matthew Graneto:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Bromoxynil and MCPA Interim Decisions. The Agency has concluded that your submission is acceptable.

This letter also addresses the label mitigation resulting from the NMFS' Biological Opinion on the effects of Bromoxynil on Pacific salmonids. The Agency has concluded that your submission is also acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

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A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 12 months from the date of this letter. After 12 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

If you have any questions about this letter, please contact Quinn Gavin at <u>gavin.quinn@epa.gov</u>.

Sincerely,

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Linda Arrington, Branch Chief Risk Management and Implementation Branch 4 Pesticide Re-Evaluation Division Office of Pesticide Programs

Enclosure



Dec 19, 2022

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 264-690

BROMOXYNIL	GROUP	6	HERBICIDE
MCPA	GROUP	4	HERBICIDE

BRONATE AdvancedTM HERBICIDE

FOR CONTROL OF CERTAIN BROADLEAF WEEDS IN WHEAT, BARLEY, OATS AND RYE, GRASSES GROWN FOR SEED AND SOD PRODUCTION, AND FLAX

ACTIVE INGREDIENT:

Octanoic acid ester of bromoxynil* (3, 5-dibromo-4-hydroxybenzonitrile)	18.7%
Heptonoic acid ester of bromoxynil* (3, 5-dibromo-4-hydroxybenzonitrile)	18.1 %
2-ethylhexyl ester of MCPA**	
OTHER INGREDIENTS:	23.2%
TOTAL:	100.0%
Containe netraleure distillates	

Contains petroleum distillates. * Equivalent to or not less than 2.5 pounds bromoxynil per gallon. **Equivalent to or not less than 2.5 pounds MCPA acid per gallon.

E.P.A. Reg. No. 264-690

E.P.A. Est. No. 34704-MS-1

KEEP OUT OF REACH OF CHILDREN CAUTION - CAUCION

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 <u>MEDICAL</u> And <u>TRANSPORTATION</u> Emergencies <u>ONLY</u> Call 24 Hours A Day 1-800-334-7577 For PRODUCT USE Information Call 1-866-99BAYER (1-866-992-2937)

Please refer to [back panel] [booklet] for additional precautionary statements and directions for use. [Note to reviewer: Location of additional precautionary statements and directions for use will vary between those listed, depending on container type/size.]

	FIR31 AID							
IF IN EYES:	Hold eye open and rinse slowly and gently with water for 15-20 minutes.							
	Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.							
	Call a poison control center or doctor for treatment advice.							
IF ON SKIN OR	Take off contaminated clothing.							
CLOTHING:	Rinse skin immediately with plenty of water for 15-20 minutes.							
	Call a poison control center or doctor for treatment advice.							
IF SWALLOWED:	Immediately call a poison control center or doctor for treatment advice.							
	• Do not induce vomiting unless told to do so by a poison control center or doctor.							
	Have person sip a glass of water if able to swallow.							
	Do not give anything by mouth to an unconscious person.							
In case of emerg	ency, call the toll-free Bayer CropScience Emergency Response telephone number: 1-800-334-7577.							
Have a product	container or label with you when calling a poison control center or doctor, or going for treatment.							
Note to Physician: No s	specific antidote is available. Possible mucosal damage may contraindicate the use of gastric lavage. Vomiting							
may cause aspiration p	neumonia.							

FIRST AID

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or skin. This product may cause skin sensitization reactions in some people.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators, flaggers and other handlers must wear:

- Long-sleeved shirt and long pants
- Socks
- Shoes
- Chemical resistant gloves made of barrier laminate, butyl rubber > 14 mils, nitrile rubber > 14 mils, or neoprene rubber > 14 mils
- Protective eyewear (safety glasses)

In addition to the above mixers, loaders, and cleaners must wear: A chemical resistant apron.

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 exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

If you will handle a total of 48 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 or larger container, 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.

Engineering Controls Statements: Pilots must use an enclosed cockpit that meets the requirements listed in the WPS for agricultural pesticides [40 CFR 170.240 (d) (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.

Handlers must use closed mixing loading systems during mixing/loading liquids for aerial applications to fallow land and high-acreage field crops.

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.

USER SAFETY RECOMMENDATIONS

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Users should 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

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 contaminate water when disposing of equipment washwater or rinsate. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. This pesticide is toxic to wildlife and fish, may be toxic to aquatic invertebrates and aquatic plants.

NON-TARGET ORGANISM ADVISORY STATEMENT: This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of non-target organisms by following label directions intended to minimize spray drift.

SURFACE WATER ADVISORY

This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having high potential for reaching surface water via runoff for several months or more after application.

A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of MCPA from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours.

GROUNDWATER ADVISORY

This product is known to leach through soil into groundwater under certain conditions as a result of label use. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

Reporting Ecological Incidents

To report ecological incidents, including mortality, injury, or harm to plants and animals, call [1-866-99BAYER (1-866-992-2937)].

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollution Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

PHYSICAL AND CHEMICAL HAZARDS

Combustible. Do not use or store near heat or open flame.

NOTICE

BRONATE Advanced[™] 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 Advanced[™].

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, or pets either directly or through drift. Keep people and pets out of the area during application. 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.

Warning: This product contains a chemical known to the State of California to cause developmental harm.

Endangered Species Protection Requirements: It is a Federal offense to use any pesticide in a manner that results in an unauthorized "take" (e.g., kill or otherwise harm) of an endangered species and certain threatened species, under the Endangered Species Act section 9. When using this product, you must follow the measures contained in the Endangered Species Protection Bulletin for the area in which you are applying the product. You must obtain a Bulletin no earlier than six months before using this product. To obtain Bulletins, consult http://www.epa.gov/espp/, call 1-844-447-3813, or email ESPP@epa.gov. You must use the Bulletin valid for the month in which you will apply the product.

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 crops during the restricted entry interval (REI). The REI for harvesting sod farm turf is 12 days. The REI for other turf activities is 24 hours. For uses on turf grown for transplanting (e.g. on sod farms), notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas. Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 2 days for grass.

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, shoes plus socks, chemical resistant gloves made of barrier laminate, butyl rubber > 14 mils, nitrile rubber > 14 mils, or neoprene rubber > 14 mils and protective eyewear.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to the use of this product on non-residential turfgrass areas that are NOT within the scope of the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter or allow others to enter the treated area until sprays have dried.

PRODUCT INFORMATION

BRONATE Advanced[™] is formulated as an emulsifiable concentrate of octanoic acid and heptanoic acid esters of bromoxynil containing the equivalent of 2.5 pounds of bromoxynil per gallon and 2.5 pounds per gallon of isooctyl ester of MCPA.

BRONATE Advanced is a selective postemergence herbicide for control of important broadleaf weeds infesting wheat, barley, oats, rye, flax, and grass grown for sod. Optimum weed control is obtained when BRONATE Advanced is applied to actively growing weed seedlings. BRONATE Advanced is primarily a contact herbicide; therefore, thorough coverage of the weed seedlings is essential for optimum control.

BRONATE Advanced 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.

Occasional transitory leaf burn may occur. The temporary leaf burn is similar to that seen with liquid fertilizer. Because the activity of BRONATE Advanced 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.

WEED RESISTANCE MANAGEMENT:

For resistance management, please note that Bronate Advanced Herbicide contains Group 4 and Group 6 herbicides. Any weed population may contain plants naturally resistant to Group 4 and Group 6 herbicides. The resistant individuals may dominate the weed population if these herbicides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance take one or more of the following steps:

- Rotate the use of Bronate Advanced Herbicide or other Group 4 and Group 6 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available, use the less resistance-prone partner at a rate that will control the target weed(s) equally as well as the more resistance-prone partner. Consult your local extension service or certified crop advisor if you are unsure as to which active ingredient is currently less prone to resistance.
- Adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information
 related to herbicide use and crop rotation, and that considers tillage (or other mechanical control methods), cultural (e.g.,
 higher crop seeding rates; precision fertilizer application method and timing to favor the crop and not the weeds), biological
 (weed-competitive crops or varieties) and other management practices.
- Scout after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method such as hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- Contact your local extension specialist or certified crop advisors for additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance contact Bayer CropScience at 1-866-99BAYER (1-866-992-2937).

You can also contact your pesticide distributor or university extension specialist to report resistance.

USE RESTRICTIONS

- Do not apply more than 1.6 pints of BRONATE Advanced Herbicide per acre in a single growing season.
- Do not apply more than 1.5 lb active ingredients per acre per year of MCPA.
- Do not apply more than 2 applications per year with a minimum retreatment interval of 21 days.
- Do not rotate treated fields with crops that are not listed on this label, or those that do not have established residue tolerances for MCPA within 365 days following BRONATE Advanced Herbicide application. For crops listed on this label, a 30-day plantback interval must be observed.
- Do not apply this product to golf course turf.
- Do not apply with backpack or hand-held application equipment.
- Handlers must use closed mixing loading systems during mixing/loading liquids for aerial applications to fallow land and highacreage field crops.
- Aerial application to fallow land is restricted within 25 feet of residential areas (e.g., homes, schools, playgrounds, for shopping areas, hospitals, etc.).

MIXING, LOADING AND HANDLING INSTRUCTIONS

2.5 Gallon Containers

It is strongly recommended that special care be taken in mixing and loading this product. Hands should be placed on the container in such a way as to avoid possible drip or splash. Correct procedures for mixing and loading are provided in Bayer CropScience's Educational Program.

Bulk Containers

If you will handle a total of 48 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 or larger container, 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 ADVANCED ALONE: Fill the spray tank 1/2 to 3/4 full with clean water. Begin agitation and add the recommended amount of BRONATE Advanced[™]. Add water to the spray tank to the desired level. Maintain sufficient agitation to ensure a uniform spray mixture during application.

TANK MIXTURES: BRONATE Advanced may be tank mixed with other pesticide products provided that these other products are registered for use on the crop/use site to be treated. The tank mix must be used in accordance with the more restrictive pesticide label limitations and precautions. No label dosage rates may be exceeded. BRONATE Advanced cannot be mixed with any product containing a label prohibition against such mixing.

BRONATE Advanced can be applied in tank mixture with many other herbicides and insecticides registered for use on approved crops. Refer to the specific crop section for rate and other restrictions. To apply BRONATE Advanced in mixture with another product, fill the spray tank 1/2 to 3/4 full with clean water and begin agitation. If tank mixing with wettable powder, soluble powder, flowable or dry flowable products, add the powder or flowable product first. After the other herbicide is thoroughly mixed with water, add the recommended amount of BRONATE Advanced and add water to the spray tank to the desired level. If tank mixing with other product types, add the BRONATE Advanced first before adding the other product. Always mix one product in water thoroughly before adding another product or compatibility problems may occur.

Maintain sufficient agitation while mixing and during application to ensure a uniform spray mixture. If spray mixture is allowed to remain without agitation for short periods of time, be sure to agitate until uniformly mixed before application.

If tank mixing with products other than those listed within each crop section, a compatibility test is recommended to ensure satisfactory spray preparation. To test for compatibility, use a small container and mix a small amount (0.5 to 1 quart) of spray, combining all ingredients in the same ratio as the anticipated use. If any indications of physical incompatibility develop, do not use this mixture for spraying. Indications of incompatibility usually will appear within 5 to 15 minutes after mixing. To ensure maximum crop safety and weed control, follow all cautions and limitations on this label and the labels of products used in the tank mixture with BRONATE Advanced[™].

SPRAYABLE LIQUID FERTILIZERS AND SPRAY ADDITIVES

BRONATE Advanced can be applied in combination with sprayable liquid fertilizer or spray additives such as surfactants or crop oil concentrate. When tank mixing with liquid fertilizer always add the fertilizer to the spray tank first and agitate thoroughly before adding BRONATE Advanced[™]. Always predetermine the compatibility with liquid fertilizer by mixing small proportional quantities in advance. Agitation must be maintained during filling and application operations to ensure that BRONATE Advanced is evenly mixed with the fertilizer. Leaf burn may occur when BRONATE Advanced is applied with liquid fertilizer, but new leaves are not adversely affected.

NOTICE: Fertilizers and spray additives can increase foliage leaf burn when applied with BRONATE AdvancedTM. Do not apply fertilizers or spray additives with BRONATE Advanced if leaf burn is a major concern due to environmental conditions, crop or variety sensitivity to BRONATE Advanced. If BRONATE Advanced is mixed with liquid fertilizer, the fertilizer should compose no more than $\frac{1}{2}$ the total spray mix.

APPLICATION PROCEDURES

BRONATE Advanced can be applied to registered use areas by ground, aerial and sprinkler irrigation equipment.

GROUND APPLICATION

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 spaced no more than 20 inches on the boom with a spray pressure of 40-50 psi are recommended. Nozzle types, nozzle spacings, and lower spray pressures that product coarse spray droplets may not provide adequate coverage of the weeds to ensure optimum control. Raindrop® nozzles and flood nozzles are not recommended as weed control with BRONATE Advanced may be reduced. A spray volume of 10 to 20 gallons per acre (GPA) is recommended for optimum spray coverage. A maximum ground speed of 10 mph is suggested. Ground applications made when dry, dusty field conditions exist may provide reduced weed control in wheel track areas. Applications using less than 10 gallons per acre may result in reduced weed control.

When weed infestations are heavy, use of higher spray volumes will be helpful in obtaining uniform weed coverage. If you are unsure of the infestation level or size of crop, consult your local agronomist or extension service.

AERIAL APPLICATION

Use orifice discs, cores and nozzle types and arrangements that will provide for optimum spray distribution and maximum coverage. A minimum spray volume of 5 GPA and a maximum pressure of 40 psi are recommended. A minimum spray volume of 3 gallons per acre may be used if crop canopy and weed density allow adequate spray coverage. Aerial applications using less than 5 gallons of spray volume per acre may result in reduced weed control.

Mandatory Spray Drift Management Aerial Applications

- Do not release spray at a height greater than 10 ft above the ground or vegetative canopy, unless a greater application height is necessary for pilot safety.
- Applicators must use 1/2 swath displacement upwind at the downwind edge of the field.
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Select a nozzle and pressure that deliver medium or coarser droplets
- The distance of the outer most nozzles on the boom must not exceed 75% of the length of the wingspan or 90% of the rotor diameter.
- Do not apply during temperature inversions.

Ground Boom Applications:

- User must only apply with the release height recommended by the manufacturer, but no more than 4 feet above the ground or crop canopy.
- Applicators are required to select the nozzle and pressure that deliver a medium or coarser droplet size (ASABE S572).
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.

SPRAY DRIFT ADVISORIES

THE APPLICATOR IS RESPONSIBLE FOR A VOIDING OFF-SITE SPRAY DRIFT. BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

Controlling Droplet Size - Ground Boom

Volume - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate. Pressure - Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size. Spray Nozzle - Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

Controlling Droplet Size - Aircraft

Adjust Nozzles - Follow nozzle manufacturers recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

BOOM HEIGHT - Ground Boom

For ground equipment, the boom should remain level with the crop and have minimal bounce.

RELEASE HEIGHT - Aircraft

Higher release heights increase the potential for spray drift.

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

WIND

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS. Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

SPRINKLER IRRIGATION APPLICATION

BRONATE Advanced Herbicide can be applied through sprinkler irrigation systems to wheat, barley, oats, rye, and grasses grown for sod.

Apply BRONATE Advanced Herbicide through sprinkler systems including center pivot, lateral move, side (wheel) roll, solid set, or hand move irrigation systems only. If hand moved pipe is used for chemigation, the pipe must not be handled in any way until 24 hours after chemigation has been completed and residues have been flushed from the system. When applying by chemigation, no person may enter the application site unless in an enclosed vehicle. Do not apply this product through any other type of irrigation system.

SPECIFIC REQUIREMENTS FOR APPLICATION THROUGH AUTOMATED SPRINKLER IRRIGATION SYSTEM

- 1. The system must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- 2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 3. The pesticide injection pipeline must 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 Advanced[™].
- BRONATE Advanced Herbicide should be applied continuously for the duration of the water application with center pivot and continuous lateral move systems. Application of BRONATE Advanced Herbicide should be made during the last 30-45 minutes of the irrigation set with other overhead sprinkler systems.
- 10. For best performance, set the sprinkler system to deliver approximately 0.5 inch or less of water per acre.
- 11. Remove scale, pesticide residues, and other foreign matter from the supply tank and entire injector system. Flush with clean water.
- 12. If BRONATE Advanced Herbicide is diluted in the supply tank, fill the tank with half of the water amount desired, add the BRONATE Advanced and then add remaining water amount with agitation. Always dilute with at least 4 parts water to 1 part BRONATE Advanced™.
- 13. Start the sprinklers and then inject BRONATE Advanced Herbicide into the irrigation line. BRONATE Advanced should be injected with a positive displacement pump into the main line at least 8 feet ahead of a right angle turn to insure adequate mixing. Refer to the BRONATE Advanced Herbicide label for detailed information on application rates and timings.

CHEMIGATION USE RESTRICTIONS AND PRECAUTIONS

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

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

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

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

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

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

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

GENERAL WEED LIST

Postemergence application of BRONATE Advanced Herbicide will control the following weeds when sprayed in the seedling stage. Maximum weed stage of growth is listed under each specific crop section.

MOST SUSCEPTIBLE BROADLEAF WEED SPECIES

Annual sowthistle Black mustard Black nightshade Common cocklebur Common lambsquarters Common tarweed Cow cockle Cutleaf nightshade Eastern black nightshade Coast fiddleneck Field pennycress Green smartweed Hairy nightshade Horned Poppy Jimsonweed Ladysthumb Lanceleaf sage London rocket Marshelder Pennsylvania smartweed Pepperweed spp. Redroot pigweed Russian thistle Shepherdspurse Silverleaf nightshade ¹Sunflower Tall Waterhemp Tartary buckwheat Tumble mustard Wild buckwheat Wild mustard Yellow rocket

(Sonchus oleraceus) (Brassica nigra) (Solanum nigrum) (Xanthium strumarium) (Chenopodium album) (Hemizonia congesta) (Saponaria vaccaria) (Solanum triflorum) (Solanum ptycanthum) (Amsinckia intermedia) (Thlaspi arvense) (Polygonum scabrum) (Solanum sarachoides) (Glaucium corniculatum) (Datura stramonium) (Polygonum persicaria) (Salvia reflexa) (Sisymbrium irio) (Iva xanthifolia) (Polygonum strumarium) (Lepidium app.) (Amaranthus retroflexus) (Salsola kali) (Capsella bursa-pastoris) (Solanum elaeagnifolium) (Helianthus annuus) (Amaranthus tuberculatus) (Fagopyrum tataricum) (Sisymbrium altissimum) (Polygonum convolvulus) (Sinapis arvensis) (Barbarea vulgaris)

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

SUSCEPTIBLE BROADLEAF WEED SPECIES

Blue (purple) mustard Common groundsel Common raqweed Corn chamomile Corn gromwell Fumitory Giant ragweed Hemp sesbania Henbit lvyleaf morningglory Knawel Kochia Mayweed Prostrate knotweed Puncture vine Redroot pigweed Smooth pigweed Spiny pigweed Tall morningglory Tall Waterhemp Tansy mustard Tarweed Velvetleaf Wild radish

(Chlorispora tenella) (Senecio vulgaris) (Ambrosia artemisiifolia) (Anthemis arvensis) (Lithospermum arvense) (Fumaria officinalis) (Ambrosia trifida) (Sesbania exaltata) (Lamium amplexicaule) (Ipomoea hederacea) (Scleranthus annuus) (Kochia scoparia) (Anthemis cotula) (Polygonum aviculare) (Tribulus terrestris) (Amaranthus retroflexus) (Amaranthus hybridus) (Amaranthus spinosus) (Ipomoea purpurea) (Amaranthus tuberculatus) (Descurainia pinnata) (Hemizonia spp.) (Abutilon theophrasti) (Raphanus raphanistrum)

Weeds germinating after spraying will not be controlled.

WEED SUPPRESSION

Canada Thistle

(Cirsium arvense)

BRONATE Advanced 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. *Refer to the tank mixtures section of this label for optimum suppression options.*

WHEAT, BARLEY, OATS AND RYE

	BRONA	TE ADVANCED	RATE	APPLICATION TIMINO	G AND SPECIFIC COMMENTS
PRODUCT	Pints/A	FI. Oz/A	Acres/Gal	CROP	WEEDS
BRONATE Advanced™	4/5	12.8	10	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 from the 3-leaf stage but before the crop reaches the boot stage.	MOST SUSCEPTIBLE BROAD- LEAF 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 1/5 – 1 3/5	19.2 – 25.6	6.7 - 5		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 3/5	25.6	5		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.
	4/5 – 1 1/5	12.8 – 19.2	10 – 6.7	Spring seeded wheat and barley except Idaho, Oregon, Washington, Colorado, Montana, and Wyoming. Apply to wheat, barley, oats, and rye from the 3-leaf stage but before the crop reaches the boot stage.	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 1/5 – 1 3/5	19.2 – 25.6	6.7 - 5	Spring seeded wheat and barley except Idaho, Oregon, Washington, Colorado, Montana, and Wyoming. Apply to wheat, barley, oats, and rye from the 3-leaf stage but before the crop reaches the boot stage.	Apply to kochia that is 2-4 inches in height.

WHEAT, BARLEY, OATS AND RYE (continued)

	BRONAT	BRONATE ADVANCED RATE		APPLICATION TIMING A	ND SPECIFIC COMMENTS
PRODUCT	Pints/A	FI. Oz/A	Acres/Gal	CROP	WEEDS
BRONATE Advanced™	Chemigation Only 1 3/5	25.6	5	Apply to wheat, barley, oats, and rye from the 3-leaf stage but before the boot stage. Apply through automated sprinkler irrigation systems with mechanical transfer loading system only. See MIXING LOADING AND HANDLING INSTRUCTIONS section for complete details	Apply to MOST SUSCEPTIBLE and SUSCEPTIBLE broadleaf weeds up to the 4-leaf stage, 2 inches in height or 1 inch in diameter, whichever comes first.
	Post-harvest 3/5 – 1 3/5	9.6 – 25.6	13.3 - 5	Make applications following harvest of wheat, barley, oats, and rye in the states of North Dakota, South Dakota, Minnesota, and Montana. Do not plant any rotational crop until the following use season.	Apply 3/5 to 4/5 pint/A to MOST SUSCEPTIBLE BROADLEAF WEEDS up to the 8 leaf stage or 4 inches in height, whichever comes first. Apply 1 1/5 to 1 3/5 pints/A to SUSCEPTIBLE BROADLEAF WEEDS up to the 4 leaf stage or 2 inches in height, whichever comes first. For control of both grasses and broadleaf weeds, tank mix BRONATE Advanced with Roundup [®] or other labeled brands of glyphosate + 2,4-D.

WHEAT, BARLEY, OATS AND RYE BRONATE ADVANCED TANK MIXTURES

	BRONATE ADVANCED RATE			APPLICATION TIMING AND SPECIFIC COMMENTS		
PRODUCT	Pints/A	FI. Oz/A	Acres/Gal	CROP	WEEDS	
BRONATE Advanced ™ + MCPA ester (Based on 4 lb. per gallon Ai)	3/5 – 1 3/5 + 1/4-1 pint/A	9.6 –25.6	13.3 - 5	Apply to spring seeded wheat, barley, oats, and rye from the 3-leaf 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 Advanced™ + Starane®	3/5 – 1 3/5 + 1/3 – 2/3 pint/A	9.6 –25.6	13.3 - 5	Apply to spring seeded wheat, barley, oats, and rye from the 2-leaf stage up to and including flag leaf emergence.	Enhances the control of kochia up to 4" (including ALS resistant). Apply to kochia up to 4 inches in height or diameter.	
BRONATE Advanced™ + 2,4-D ester (Based on 4 lb. per gallon Ai)	3/5 – 1 3/5 + 1/4-1 pint/A	9.6 –25.6	13.3 - 5	Apply to spring seeded wheat, barley and rye after grain is fully tillered (usually about 4 to 8 inches high), but before it is forming joints in the stem. Do not apply to grain in boot to dough stage.	For control of MOST SUSCEPTIBLE and SUSCEPTIBLE weeds and improved control of redroot pigweed, wild buckwheat, and kochia (including ALS-resistant weeds.). 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 Advanced™ + Banvel® Clarity® or dicamba (based on 4 lb. per gallon Ai)	3/5 - 1 1/5 + 1/8-1/4 pint/A	9.6 – 19.2	13.3 – 6.7	FOR USE ON WHEAT ONLY. DO NOT TREAT BARLEY, OATS, OR RYE. Fall seeded wheat from 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 (including ALS-resistant weeds.). 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 Advanced™ + Glean [®] (refer to Glean® label for adjuvant recommendation)	3/5 - 1 1/5 + 1/6-1/3 oz/A	9.6 – 19.2	13.3 – 6.7	Apply to wheat and barley from 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 Kochia, 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 Advanced™ + Finesse [®] (refer to Finesse® label for adjuvant recommendation)	3/5 - 1 1/5 + 1/6-1/3 oz/A	9.6 – 19.2	13.3 – 6.7	Apply to wheat and barley from 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 Kochia, 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.	

WHEAT, BARLEY, OATS AND RYE BRONATE ADVANCED TANK MIXTURES (continued)

	BRONATE ADVANCED RATE			APPLICATION TIMING AND SPECIFIC COMMENTS		
PRODUCT	Pints/A	FI. Oz/A	Acres/Gal	CROP	WEEDS	
BRONATE Advanced™ + Ally [®] (refer to Ally® label for adjuvant recommendation)	3/5 - 1 1/5 + 1/10 oz/A + 1 qt/100 gal of water	9.6 – 19.2	13.3 – 6.7	Apply to wheat and barley from 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 Kochia, henbit, tansy mustard, and chickweed (including ALS- resistant weeds). Apply to weeds up to the 8-leaf stage, 4 inches in height or 2 inches in diameter, whichever comes first.	
BRONATE Advanced™ + Peak® (refer to Peak® label for adjuvant recommendation)	3/5 - 1 1/5 + 0.25 oz/A	9.6 – 19.2	13.3 – 6.7	Apply to wheat and barley from the 3-leaf stage but before the crop reaches the boot stage. Refer to Peak [®] label for crop rotation and other restrictions.	This tankmix improves control of broadleaf weeds such as Kochia, henbit, tansy mustard, and chickweed (including ALS- resistant weeds). Apply to weeds up to the 8-leaf stage, 4 inches in height or 2 inches in diameter, whichever comes first.	
BRONATE Advanced [™] + Harmony [®] Extra or Harmony [®] GT (refer to Harmony or Harmony GT label for adjuvant recommendation)	3/5 - 1 1/5 + 3/10-1/2 oz/A	9.6 – 19.2	13.3 – 6.7	Winter wheat. Apply from the 3-leaf stage but before the crop reaches the boot stage. Refer to the Harmony [®] Extra or GT label for crop rotation and other restrictions. Spring wheat and barley. Apply from the 3-leaf stage but before the crop reaches the boot stage. Spring Oats: From the third leaf stage of crop, but before jointing. Refer to the Harmony Extra or GT label for crop rotation and other restrictions.	This tankmix improves control of broadleaf weeds such as Kochia, henbit, chickweed and redroot pigweed. Apply to weeds up to the 8-leaf stage, 4 inches in height or across, whichever comes first.	
BRONATE Advanced™ + Amber [®] (refer to the Amber® label for adjuvant recommendation)	3/5 - 1 1/5 + 0.14-0.56 oz/A	9.6 – 19.2	13.3 – 6.7	Apply to wheat and barley from the 3-leaf stage, but before the crop reaches the boot stage. Refer to the Amber® label for crop rotation and other restrictions.	This tank mix improves control of broadleaves such as Kochia, 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.	

WHEAT, BARLEY, OATS AND RYE BRONATE ADVANCED TANK MIXTURES (continued)

	BRONATE ADVANCED RATE			APPLICATION TIMING AND SPECIFIC COMMENTS		
PRODUCT	Pints/A	FI. Oz/A	Acres/Gal	CROP	WEEDS	
BRONATE Advanced™ + Express [®] (refer to the Express® label for adjuvant recommendation)	3/5 - 1 1/5 + 1/12-1/3 oz/A	9.6 – 19.2	13.3 – 6.7	Wheat and barley. Apply from the 3-leaf stage but before the crop reaches the boot stage. Refer to the Express [®] label for crop rotation and other restrictions.	This tankmix improves control of broadleaf weeds such as Kochia, 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 Advanced™ + Curtail [®] or Curtail [®] M	3/5 - 1 1/5 + 1-2 pints/A 1-1.75 pints/A	9.6 – 19.2	13.3 – 6.7	Apply to wheat and barley after the crop begins to tiller up to the 1st node detectable.	This tankmix improves 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 Advanced™ + metribuzin (Sencor [®] or Lexone [®])	4/5 + 1/8-3/16 lb ai/A	12.8	10	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 winterkill, frost damage, disease, or drought.	This tankmix improves control of broadleaf weeds such as chickweed, filaree, and 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 Advanced™ + Avenge [®]	4/5 – 1 3/5 + 2 1/2-4 pints/A	12.8 – 25.6	10 - 5	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).	

WHEAT, BARLEY, OATS AND RYE BRONATE ADVANCED TANK MIXTURES (continued)

	BRONATE ADVANCED RATE			APPLICATION TIMING AND SPECIFIC COMMENTS		
PRODUCT	Pints/A	FI. Oz/A	Acres/Gal	CROP	WEEDS	
BRONATE Advanced™ + Assert [®]	3/5 - 1 1/5 + 1 -1 1/2 pints/A	9.6 – 19.2	13.3 – 6.7	Apply to wheat and barley from 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.	
BRONATE Advanced™ + Puma [®]	4/5 + 1/3-2/3 pints/A	12.8	10	Apply to wheat and barley from the 3-leaf stage but before boot. No closer than 60 days prior to harvest in MN, MT, ND, and SD, and no closer to harvest than 70 days in all other states. Do not use this tankmix on two-row malting barley.	This tankmix will control broadleaf weeds, green foxtail, and foxtail millet. If the higher Puma rate is used, additional grasses controlled include wild oats and barnyard grass. Yellow foxtail will be suppressed.	
	1 1/5 + 2/3 pints/A	19.2	6.7	For use on winter wheat only in the states of Washington, Oregon, and Northern Idaho.		
BRONATE Advanced™ + Discover [®]	3/5-1 3/5 + 3.2-4 oz/A	9.6-25.6	13.3-5	Refer to the Discover® label for proper rates, crops, adjuvants, rotation restrictions and application timing information.	Increase the rate of BRONATE Advanced as the broadleaf weed size increases. Use minimum spray volume of 10 GPA by ground and 5 GPA by air.	
BRONATE Advanced™ + Everest [®]	4/5 + 0.61 oz/A	12.8	10	Refer to the Everest® label for proper rates, crops, adjuvants, rotation restrictions and application timing information.	This tankmix will control broadleaf weeds, green foxtail, and foxtail millet.	
BRONATE Advanced™ + Achieve [®]	4/5-1 3/5	12.8-25.6	10-5	Refer to the Achieve® label for proper rates, crops, adjuvants, rotation restrictions and application timing information.	This tankmix will control broadleaf weeds, green and yellow foxtail and wild oats.	
BRONATE Advanced™ + Maverick™	4/5-1 3/5 + 0.66 oz.	12.8-25.6	10-5	Refer to the Maverick™ label for proper rates, crops, adjuvants, rotation restrictions and application timing information.	This tankmix will control broadleaf weeds plus grasses as listed on the Maverick™ label.	

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

- Do not graze treated fields within 45 days after application.
- · Reduced weed control may occur when weeds are stressed from lack of moisture or cold temperatures.
- Refer to labels of products used in tank mixture for additional restrictions and precautions.
- Do not apply more than 1.6 pints (0.4 pounds bromoxynil) of BRONATE Advanced Herbicide per acre per year.
- Do not apply more than 0.75 lb active ingredients per acre per year of MCPA.
- Do not rotate treated fields with crops that are not listed on this label, or those that do not have established residue tolerances for MCPA within 365 days following BRONATE Advanced Herbicide application. For crops listed on this label, a 30-day plantback interval must be observed.
- Do not apply more than 0.50 lb active ingredient per acre per year of Bromoxynil.

GRASSES GROWN FOR SEED OR SOD PRODUCTION

	RATE	RATE	APPLICATION TIMING AND SPECIFIC COMMENTS			
PRODUCT	Per ACRE	Per 1000 SQ FT	CROP	WEEDS		
BRONATE Advanced™	4/5 – 1 3/5 Pints	0.3 to 0.6 Fl. Oz.	Apply to established and newly seeded grasses grown for sod production before the boot stage. Established grasses tolerant to BRONATE Advanced include bentgrasses, Kentucky Bluegrass, Fescues, Ryegrass, Bermudagrass, St. Augustinegrass, and Zoyiagrass. BRONATE Advanced may also be used on seedling grasses such as Merion, Park, Delta, or common Kentucky Bluegrasses, Pennlawn, Chewings, Illahee or Alta Fescues, Orchard grass, Highland, Seaside or Astoria Bentgrasses, perennial Ryegrasses, Bahiagrass and Zoysiagrass.	Refer to the GENERAL WEED LIST for a listing of susceptible broadleaf weeds. Optimal control will be attained when weeds are treated in the seedling stage (less than 4 leaf stage, 2 inches in height, or 1 inch in diameter).		
BRONATE Advanced™	Chemigatio n 1 3/5 pints/A only	0.6 Fl. Oz.	Apply to established and newly seeded grasses grown for sod production before the boot stage. Apply through automated sprinkler irrigation systems with mechanical transfer loading system only. See MIXING LOADING AND HANDLING INSTRUCTIONS section for complete details. Refer to the list of established grasses that are tolerant to BRONATE Advanced [™] .			

Seedling and Established Grasses

RESTRICTIONS AND PRECAUTIONS: Grasses grown for seed or sod production

- Do not allow livestock to graze in treated areas or feed treated grasses to livestock.
- Do not apply BRONATE Advanced to grasses grown for seed or sod production with backpack or hand-held application equipment.
- Do not apply more than 1.6 pints (0.4 pounds bromoxynil) of BRONATE Advanced Herbicide per acre per year.
- Do not apply more than 1.5 lb active ingredients per acre per year of MCPA.
- Do not apply more than 2 applications per year with a minimum retreatment interval of 21 days.
- Do not rotate treated fields with crops that are not listed on this label, or those that do not have established residue tolerances for MCPA within 365 days following BRONATE Advanced Herbicide application. For crops listed on this label, a 30-day plantback interval must be observed.

FLAX (Linum usitatissimum only)

	BRON	ATE ADVANCED F	RATE	APPLICATION TIMING	AND SPECIFIC COMMENTS
PRODUCT	Pints/A	Fl. Oz/A	Acres/Gal	CROP	WEEDS
BRONATE Advanced™	5/7	11.4	11.3	Apply to flax that is 2 to 8 inches in height. Do not apply BRONATE Advanced to flax during or after the bud stage.	Apply to MOST SUSCEPTIBLE weeds that do not exceed the 4- leaf stage, 2 inches in height or 1 inch in diameter, whichever comes first.

• HIGHER SPRAY VOLUMES OF 15 TO 20 GALLONS PER ACRE WILL DECREASE POTENTIAL FOR FLAX INJURY. **RESTRICTIONS AND PRECAUTIONS: Flax (***Linum usitatissium* only)

- Do not apply if temperatures are expected to exceed 85° F at or 3 days following application or crop injury may occur.
- Unacceptable crop injury may occur following BRONATE Advanced application to flax grown on high organic, peat type soils.
- Application under high humidity conditions can injure flax.
- Unless otherwise instructed, do not apply BRONATE Advanced to flax with crop oil concentrate, surfactants, or nitrogen solutions.
- Do not use on ornamental flax.
- Do not apply more than 0.72 pint (0.18 pounds bromoxynil) of BRONATE Advanced Herbicide per acre per year.
- Do not apply more than 0.25 lb active ingredients per acre per year of MCPA.
- Do not rotate treated fields with crops that are not listed on this label, or those that do not have established residue tolerances for MCPA within 365 days following BRONATE Advanced Herbicide application. For crops listed on this label, a 30-day plantback interval must be observed.
- Do not apply more than 0.50 lb active ingredients per acre per year of Bromoxynil.

STORAGE AND DISPOSAL

Proper pesticide storage and disposal are essential to protect against exposure to people and the environment due to leaks and spills, excess product or waste, and vandalism. Do not allow this product to contaminate water, foodstuffs, feed or seed by storage or disposal.

PESTICIDE STORAGE: Store pesticides away from food, pet food, feed, seed, fertilizers, and veterinary supplies. Keep container closed to prevent spills and contamination.

PESTICIDE DISPOSAL: To avoid wastes, use all material in this container, including rinsate, by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program. Such programs are often run by state or local governments or by industry. All disposal must be in accordance with applicable federal, state and local regulations and procedures

CONTAINER HANDLING AND DISPOSAL:

[Container Handling and Disposal for Nonrefillable Containers]

Nonrefillable container.

For nonrefillable containers of 5-gallon capacity or less

Do not reuse the container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state.

Triple rinse or pressure rinse (or equivalent) the container promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix-tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix-tank while rinsing, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

For nonrefillable containers of greater than 5-gallon capacity

Do not reuse or refill this container.

Triple rinse or pressure rinse (or equivalent) the container promptly after emptying.

Triple rinse large nonrefillable containers NOT equipped with pumping systems as follows: Empty the remaining contents into application equipment or mix-tank. Fill the container ¼ full with water. Replace and tighten closures. Tip the container on its side and roll it back and forth for 30 seconds, ensuring at least one complete revolution. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or mix-tank, or store rinsate for later use or disposal. Repeat this procedure two more times.

Triple rinse large nonrefillable containers equipped with pumping systems as follows: Empty the remaining contents into application equipment or mix-tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

Pressure rinse large containers as follows: Empty the remaining contents into application equipment or mix-tank. Place container so that it can drain directly into application equipment or mix-tank while rinsing, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle through the opening of the container or directly into the side of the container and rinse at about 40 PSI for at least 30 seconds or until rinsate runs clear. Continue to drain for 10 seconds after the flow begins to drip.

Once the nonrefillable container is properly rinsed, offer for recycling, if available. Some container manufacturers offer container recycling. See additional information regarding manufacturer recycling programs attached to the container, if available. If no recycling information is available on the container, contact your chemical dealer or Bayer CropScience at 1-866-99BAYER (1-866-992-2937), or contact the Ag Container Recycling council (ACRC) at 1-877-952-2272 or at www.acrecycle.org, to find the nearest recycling location. If recycling is not available, dispose of in accordance with federal, state and local regulations and procedures, which may include puncturing the properly rinsed container and disposing in a sanitary landfill.

[Container Handling and Disposal for Refillable Containers]

Refillable container. Refill the container with pesticide only. Do not reuse the container for any other purpose.

Cleaning the container before refilling is the responsibility of the refiller. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Triple rinse or pressure rinse (or equivalent) the container promptly after emptying and before final disposal.

To triple rinse the refillable container before final disposal, empty the remaining contents from the container into application equipment or mix-tank. Fill the container at least 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this procedure two more times.

To pressure rinse the refillable container before final disposal, empty the remaining contents from the container into application equipment or mix-tank. Position the container so that it can drain directly into application equipment or mix-tank while rinsing, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle through the opening of the container or directly into the side of the container and rinse all interior area at about 40 PSI for at least 30 seconds or until rinsate drains clear.

Once the refillable container is properly rinsed, offer for recycling, if available. Some container manufacturers offer container recycling. See additional information regarding manufacturer recycling programs attached to the container, if available. If no recycling information is available on the container, contact your chemical dealer or Bayer CropScience at 1-866-99BAYER (1-866-992-2937), or contact the Ag Container Recycling council (ACRC) at 1-877-952-2272 or at www.acrecycle.org, to find the nearest recycling location. If recycling is not available, dispose of in accordance with federal, state and local regulations and procedures, which may include puncturing the properly rinsed container and disposing in a sanitary landfill.

[Optional additional container disposal statement: IBC EMPTY? – FREE CALL – 1-888-SCHUETZ (1-888-724-8389) www.schuetz.net/ticket; Schuetz ticket service]

[Optional additional container disposal statement: FREE IBC PICKUP] [For continental USA and Canada only.]

[Optional additional container disposal statement: RETURNnet SYSTEM – To return empty IBC's Email or Call – www.returnnetsystem.com – 1-888-758-SHIP – United States and Canada (1-888-758-7447 – IBCNA – Clarkston, Michigan – USA]

[Optional additional container label statements for the CUBE refillable packaging system only: **CUBE** Bayer CropScience Refillable Delivery System FEATURES INCLUDE:

- Automatic Venting
- Heavy duty one-way 2-inch camloc ball valve with protective shield door
- Complete coated steel protective enclosure
- Durable 4-way plastic pallet
- Lift door to access one-way valve]

[For Transport Vehicle labels only, as defined at 40 CFR § 156.3]

FOR BULK PESTICIDE TRANSPORT ONLY.

STORAGE AND DISPOSAL

Proper pesticide storage and disposal are essential to protect against exposure to people and the environment due to leaks and spills, excess product or waste, and vandalism. Do not allow this product to contaminate water, foodstuffs, feed or seed by storage or disposal.

PESTICIDE STORAGE: Store pesticides away from food, pet food, feed, seed, fertilizers, and veterinary supplies. Keep container closed to prevent spills and contamination.

PESTICIDE DISPOSAL: To avoid waste, empty as much product from this transport vehicle as possible for repackaging or use in accordance with label directions. If wastes cannot be avoided, offer remaining product or rinsate to a waste disposal facility or pesticide disposal program. All disposal must be in accordance with applicable federal, state and local regulations and procedures.

CONTAINER HANDLING AND DISPOSAL: Emptied transport vehicle container retains vapor and product residue. Observe all precautions stated on this label until the container is cleaned, reconditioned or destroyed. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, and worn-out threads and closures. Clean thoroughly before reuse for transportation of a material of different composition or before retiring this transport vehicle container from service.

THIS LABEL FOR USE WITH TRANSPORT VEHICLES ONLY

CONDITIONS OF SALE AND LIMITATIONS OF WARRANTY AND LIABILITY

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Bayer CropScience. All such risks shall be assumed by the user or buyer.

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NET CONTENTS: 2.5 Gallons

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Produced for



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