

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

34704-886

EPA Reg.

Number:

Date of Issuance:

OCT 2 1 2005

NOTICE OF PESTICIDE:

Reregistration

(under FIFRA, as amended)

Term of Issuance:
Conditional

Name of Pesticide Product:

Bromac

Name and Address of Registrant (include ZIP Code):

Loveland Products Inc.

P.O. Box 1286

Greeley, Colorado 80632-1286

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

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

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

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

- 1. Submit and/or cite all data required for registration/reregistration of your product when the Agency requires all registrants of similar products to submit such data.
  - 2. Make the following changes to your labeling:
    - a. Change the registration number to "34704-886"
    - b. Change "isooctyl ester" to "2-ethylhexyl ester" in the ingredients statement, the last paragraph of the first page following "NOTICE", and the first paragraph of the "General Information" section.
    - c. In the precautionary statements, remove "Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove contaminated clothing and wash before reuse."

Here John

for Jim Temphi PM 25

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OCT 2 1 2005

- d. In the "If Swallowed" first aid statement, delete "Have person sip a glass of water if able to swallow." At the end of the "If Swallowed" statement, add "Do not give any liquid to the person."
- e. At the end of the "First Aid" section, add the following note to physician:

Note to physician: Contains petroleum distillate. Vomiting may cause aspiration pneumonia.

- f. Put the "Returnable-Refillable Containers" section in the "Storage and Disposal" box.
- g. In the "Spray Drift Management" section, change "Where states...should be observed" to "Where states...must be observed" (change "should" to "must"). Immediately following the sentence, add "The applicator should be familiar with and take into account the information covered in the "Aerial Drift Reduction Advisory Information".
- h. In all of the table headers, change "Recommendations" to "Application Instructions".
- i. In all of the "Restriction and Precautions" sections, change "2 pints of Bromac per acre" to "0.5 lbs ai of bromoxynil (2 pints of Bromac) per acre". In the grasses grown for seed and flax sections, change "Bromox/MCPA 2-2" to "Bromac". In the Flax section, change 0.9 pints of Bromox/MCPA 2-2" to "0.225 lbs ai of bromoxynil (0.9 pints of Bromac) per acre.
- j. In the "Grasses Grown for Seed Production" section, in the fifth column and second row of the table, either delete the line above or repeat the text from the row above.
- k. In the warranty section, add "To the extent permitted by law" immediately prior to "Buyer's or user's exclusive remedy..." and "In no event shall...".
- l. Update outdated company names, including American Cyanamid, Rhone-Poulenc, and Ciba-Geigy.
- 3. Submit final labeling for this product within 30 days of the date of this letter.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records. The basic confidential statement of formula (csf) for this product dated June 22, 2**2**05 is acceptable and has been placed in our files.

If you have any questions about this letter, please contact Tobi Colvin-Snyder at 703-305-7801.

Tim Tompkins

Product Manager (25)

Herbicide Branch

Registration Division (7505C)



ACCEPTED
with COMMENT
In EPA Letter Da

BROMAC

OCT 21 2005

Under the Federal Insecticide, Fundicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.

FOR CONTROL OF CERTAIN BROADLEAF WEEDS IN WHEAT, BARLEY, OATS AND RYE, CONSERVATION RESERVE PROGRAM (CRP) AREAS, GRASSES GROWN FOR SEED PRODUCTION AND FLAX.

### ACTIVE INGREDIENT:

Octanoic acid ester of bromoxynil*	
(3,5-dibromo-4-hydroxybenzonitrile)	31.7%
Isoactyl ester of 2-methyl-chlorophenoxyacetic acid**	34.0%
INERT INGREDIENTS:	34,3%
TOTAL	100.0%

\* Bromoxynil octanoate equivalent to 21.8% of bromoxynil or not less than 2.0 pounds of bromoxynil per gallon.
\*\*Equivalent to 21.8% 2-methyl-chlorophenoxyacetic acid or not less than 2.0

\*\*Equivalent to 21.8% 2-methyl-chlorophenoxyacetic acid or not less than 2.9 pounds MCPA acid per gallon. Contains Petroleum Distillate

# AVISO WARNING

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

> EPA REG. NO. 34704-EPA EST. NO. 37507-MT-1 NET CONTENTS 2½ GALS. (9.46 L)

06/05

# PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

## WARNING

May be fatal if swallowed. Harmful if absorbed through skin or inhaled. Causes moderate eye irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove contaminated clothing and wash clothing before reuse.

Personal Protective Equipment (PPE)

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

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

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

If you will handle a total of 60 gallons or more of this product per day, you must use a mechanical transfer system for all mixing and loading operations. If this product is packaged in a 30 gallon drum, you must use a mechanical transfer system which terminates in a drip-free hard coupling which may be used only with a spray or mix tank which has been fitted with a compatible coupling. If you do not presently own or have access to a mechanical transfer system with this type of coupling, contact your dealer for information on how to obtain such a system or to modify your pre-

sent system. When using a mechanical transfer system, do not remove or disconnect the pump or probe from the container until the container has been emptied and rinsed. The pump or probe system must be used to rinse the empty container and to transfer the rinsate directly to the mixing or spray tank. Application from a tractor with a completely enclosed cab or aerial application is required whenever this product is applied to 360 or more acres in a day.

The closed systems and enclosed cabs must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)]. The handler PPE requirements may be reduced or modified as specified in the WPS. To reduce exposure to residues, wash the spray rig, tractor, and all other equipment used to handle or apply this product with water daily or before using the equipment for any other purpose.

APPLICATION BY CHEMIGATION must be done by fixed pipe, overhead sprinkler systems or hand moved pipe. If hand moved pipe is used for chemigation, the pipe must not be handled in any way until 24 hours after chemigation has been completed and residues have been flushed from the system. When applying by chemigation, no person may enter the application site unless in an enclosed vehicle.

DURING AERIAL APPLICATION, human flaggers are prohibited unless in enclosed vehicles. Aerial application is prohibited within 300 feet of residential areas (e.g., homes, schools, playgrounds, hospitals, shopping areas, etc.)

Apply to non-residential turf only. Do not apply to residential, playground, or schoolyard turf.

Do not apply with backpack or hand-held application equipment.

### **USER SAFETY RECOMMENDATIONS**

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

Remove clothing immediately if pesticide gets inside.

Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### FIRST AID

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor.

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: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for immediate advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-800-301-7976.

### **ENVIRONMENTAL HAZARDS**

This pesticide is toxic to wildlife and fish. Use with care when applying to areas frequented by wildlife or adjacent to any body of water. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions tavor drift from target areas. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

## PHYSICAL AND CHEMICAL HAZARDS

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

### NOTICE

BROMAC 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 BROMAC.

#### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Head entire label before using this product. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regula-

#### 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 larms, 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). For all crops except turl, the REI is 24 hours. The REI for harvesting sod farm turl is 12 days. The REI for other turl 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.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls over long-sleeved shirt and long pants, chemical resistant gloves such as nitrile, viton or barrier laminate, chem ical-resistant footwear plus socks, chemical-resistant headgear for overhead exposure and protective eyewear.

### STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store at temperatures above 3°F. If allowed to freeze, remix before using.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be

disposed of on site or at an approved waste disposal facility.

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

#### RETURNABLE—REFILLABLE CONTAINERS

After use, return the container to the point of purchase or designated locations. This container must only be refilled with BROMAC Herbicide. DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE. Prior to refilling, inspect thoroughly for damage such as cracks, punctures, abrasions and damaged or worn out threads on closure devices. Do not refill or transport damaged or leaking containers. Check for leaks after refilling and before transportation. If the container is not being refilled, return it to the point of purchase.

### **GENERAL INFORMATION**

BROMAC is formulated as an emulsifiable concentrate containing the equivalent of 2 lbs. per gallon of octanoic acid ester of bromoxynil and 2 pounds per gallon of isooctyl ester of MCPA. BROMAC is a selective postemergence herbicide for control of important broadleaf weeds infesting small grains (wheat, barley, oats, rye). and conservation reserve program areas, and grass grown for seed and flax. Optimum weed control is obtained when BROMAC is applied to actively growing weed seedlings, BROMAC is primarily a contact herbicide, therefore thorough coverage of the weed seedlings is essential for optimum control.

BROMAC has little residual activity. Therefore subsequent flushes of weeds will not be controlled by the initial treatment. Generally crops that form a good canopy will help shade subsequent weed flushes. However, certain crops or short-straw varieties, for example Yaccora Rojo wheat, may not develop the crop canopy last enough to shade the subsequent flushes of weeds.

Occasional transitory leaf burn may occur. The temporary leaf burn is similar to that seen with figured fertifizer. Because the activity of BROMAC is mainly contact, recovery of the crop is generally rapid with no tasting 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.

### 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.

30 Gallon and Bulk Containers

If you will handle a total of 60 gallons or more of this product per day, you must use a mechanical transfer system for all mixing and loading operations. If this product is packaged in a 30 gallon drum, you must use a mechanical transfer system which terminates in a drip-free hard coupling which may be used only with a spray or mix tank which has been fitted with a compatible coupling. If you do not presently own or have access to a mechanical transfer system with this type of coupling, contact your dealer for information on how to obtain such a system or to modify your present system. When using a mechanical transfer system, do not remove or disconnect the pump or probe from the container until the container has been emptied and rinsed. The pump or probe system must be used to rinse the empty container and to transfer the rinsate directly to the mixing or spray tank.

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

TANK MIXTURES: BROMAC 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. BROMAC cannot be mixed with any product containing a label prohibition against such mixing. BROMAC 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 recommendations and other restrictions. To apply BROMAC in mixture with another product, fill the spray tank 1/2 to 1/2 full with clean water and begin agitation. If tankmixing 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 BROMAC and add water to the spray tank to the desired level. If tankmixing with other product types, add the BROMAC first before adding the other product. Always mix one product in water thoroughly before adding another product or compatibility problems may occur. Never mix two products together without first mixing in water.

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 BROMAC.

#### SPRAYABLE LIQUID FERTILIZERS AND SPRAY ADDITIVES

BROMAC can be applied in combination with sprayable liquid fertilizer or spray additives such as surfactants or crop oil concentrate. When tankmixing with liquid fertilizer always add the fertilizer to the spray tank first and agitate thoroughly before adding BROMAC. 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 BROMAC is evenly mixed with the tertilizer. Leaf burn may occur when BROMAC 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 BROMAC. Do not apply fertilizers or spray additives with BROMAC if leaf burn is a major concern due to environmental conditions, crop or variety sensitivity to BROMAC

### APPLICATION PROCEDURES

BROMAC can be applied to registered use areas by ground, aerial and sprinkler irrigation equipment

#### GROUND APPLICATION

Use a standard herbicide boom sprayer that provides uniform and accurate application. Sprayer should be equipped with screens no finer than 50 mesh in the nozzle tips and in-line strainers.

Select a spray volume and delivery system that will ensure thorough and uniform spray coverage. For optimum spray distribution and thorough coverage use of flat fan nozzles (maximum tip size 8008) with a spray pressure of 40-60 psi are recommended. Other nozzle types and lower spray pressures that produce course 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 BROMAC may be reduced. In general a spray volume of 10 to 20 gallons per acre (GPA) is recommended for optimum spray coverage. A minimum of 5 GPA with a minimum spray pressure of 50 psi and a maximum ground speed of 10 mph may be used with higher speed, low volume ground application if ground terrain, crop and weed density allow effective spray distribution. When using higher speed equipment a maximum ground speed of 10 mph is suggested if field conditions cause excessive boom movement during application which results in poor spray coverage.

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 and spray pressure will be helpful in obtaining uniform weed coverage.

Do not apply when winds are gusty or when other conditions favor poor spray coverage and/or off target spray movement.

#### AFRIAL APPLICATION

Use orifice discs, cores and nozzle types and arrangements that will provide for optimum spray distribution and maximum coverage. In general a minimum spray volume of 5 GPA and a maximum pressure of 40 psi are recommended. A minimum spray volume of 3 GPA may be used if crop canopy and weed density allow adequate spray coverage at that gallonage.

Do not apply during inversion conditions, when winds are gusty or when other conditions tavor poor spray coverage and/or off target spray movement. Off target spray movement can be minimized by increasing the spray volume per acre and not applying when winds exceed 10 mph.

#### SPRINKLER IRRIGATION APPLICATION

BROMAC Herbicide can be applied through sprinkler irrigation systems to wheat, barley, oats, rye, triticale and grasses grown for seed.

Apply BROMAC 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

- 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.
- The pesticide injection pipeline must contain a functional, automatic, quickclosing 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.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops
- The irrigation line or water pump must include a functional pressure switch 5 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
- Do not apply when wind speed favors drift beyond the area intended for 7. treatment.
- Agitation is recommended in the pesticide supply tank when applying the 8. RÃOMAC Herbicide
- BROMAC Herbicide should be applied continuously for the duration of the water application with center pivot and continuous lateral move systems. Application of BROMAC Herbicide should be made during the last 30-45 minutes of the irrigation set with other overhead sprinkler systems.
- For best performance, set the sprinkler system to deliver approximately 0.5 inch or less of water per acre.
- Remove scale, pesticide residues and other foreign matter from the supply 11. tank and entire injector system. Flush with clean water.
- 12. If BROMAC Herbicide is diluted in the supply tank, fill the tank with half of the water amount desired, add the BROMAC and then add remaining water amount with agitation. Always dilute with at least 4 parts water to 1 part BROMAC.
- Start the sprinklers and then inject BROMAC Herbicide into the irrigation line. BROMAC 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 recommendations for specific crops for detailed information on application rates and timings.

#### CHEMIGATION USER PRECAUTIONS

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

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

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

Grop 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

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.

#### SPRAY DRIFT MANAGEMENT

Avoid spray drift to nearby crops as this product will cause modifications in plant growth. Plant injury or reduced yields will result.

AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR.

The interaction of many equipment-and-weather-related factors determine the potential for spray drift. The applicator is responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

- 1. The distance of the outer most nozzles on the boom must not exceed ¾ the length of the wingspan or rotor.
- 2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

Where states have more stringent regulations, they should be observed.

#### **AERIAL DRIFT REDUCTION ADVISORY**

Information on droplet size:

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (See Wind, Temperature and Humidity, and Temperature Inversions).

- Controlling droplet size:

  Volume Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing
- Number of Nozzles Use the minimum number of nozzles that provide uniform
- Nozzle Orientation Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- Nozzle Type Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produces larger droplets Consider using low-drift nozzles. Solid stream nozzles oriented straight back produces the largest droplets and the lowest drift.

For some use patterns, reducing the effective boom length to less than 1/4 of the wingspan or rotor length may further reduce drift without reducing swath width.

#### APPLICATION HEIGHT

Applications should not be made at a height greater than 10 feet above the top of the target plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

#### SWATH ADJUSTMENT

When applications are made with a crosswind, the swath will be displaced windward. Therefore, on the up and down edges of the field, the applicator should compensate for the displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with the increasing drift potential (higher wind, smaller drops, etc.).

#### WIND

Drift potential is lowest between winds speeds of 2 - 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

#### TEMPERATURE AND HUMIDITY

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

#### TEMPERATURE INVERSIONS

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be

identified 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.

#### SENSITIVE AREAS

The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g., when wind is blowing away from the sensitive areas).

#### **GENERAL WEED LIST**

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

#### MOST SUSCEPTIBLE BROADLEAF WEED SPECIES

Annual sowthistle (Sonchu soleraceus) Black mustard (Brassica nigra) Black nightshade (Solanum nigrum) Common cocklebur (Xanthlum strumarium) Common lambsquarters (Chenopodium album) Common tarweed (Hemizonia congesta) Cow cockle (Saponaria vaccaria) Cutleaf nightshade (Solanum triflorum) Eastern black nightshade (Solanum ptycanthum) Coast fiddleneck (Amsinckia intermedia) Field pennycress (Thiaspi arvense) Green smartweed (Polygonum scabrum)
Hairy nightshade (Solanum sarachoides)
Horned Poppy (Glaucium corniculatum)
Jimsonweed (Datura stramonium)
Ladysthumb (Polygonum persicaria) Lanceleal sage (Salvia reflexa) London rocket (Sisymbrium Iria) Marshelder (Iva xanthifolia) Pennsylvania smartweed (Polygonum strumarium) Pepperweed spp. (Lepidium app.) Redroot pigweed (Amaranthus retroflexus) Russian thistle (Salsola kall) Shepherdspurse (Capsella bursa-pastoris)
Silverleaf night-shade (Solanum elaeagnifolium) Smooth pigweed (Amaranthus hybridus) Spiny pigweed (Amaranthus spinosus)

Sunflower (Helianthus annuus) Tall Waterhemp (Amaranthus tuberculatus) Tartary buckwheat (Fagopyrum tataricum) Tumble mustard (Sisymbrium altissimum) Wild buckwheat (Polygonum convolvulus) Wild mustard (Sinapis arvensis) Yellow rocket (Barbarea vulgaris)

<sup>1</sup>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 wilgaris)
Common ragweed (Ambrosia artemisifolia)
Corn chamomile (Anthemis arvensis)
Corn gromwell (Lithospermum arvense)
Fumitory (Fumaria officinalis)
Giant ragweed (Ambrosia trifida)
Hemp sesbania (Sesbania exaltata)
Henbit (Lamium emplexicaule)
Ivyleat morningglory (Ipomoea hederacea)
Knawel (Scleranthus annuus)
Kochia (Kochia scoparia)
Mayweed (Anthemis cotula)
Prostate knowtweed (Polygonum aviculare)
Puncture vine (Tribulus terrestis)
Tall morningglory (Ipomoea purpurea)
Tansy mustard (Descurainia pinnata)
Tarweed (Hemizonia spp.)
Velvetleaf (Abutilon theophrasti)
Wild radish (Raphanus raphanistrum)

Weeds germinating after spraying will not be controlled

#### WEED SUPPRESSION

Canada thistle (Cirsium arvense)

BROMAC Herbicide applied at 1½ 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 BROMAC RECOMMENDATIONS

APPLICATIONS TIMING AND SPECIFIC COMMENTS			
PRODUCT	RATE	CROP	WEEDS
BROMAC	1 pint/A	Fall seeded wheat, barley. oats and rye throughout	MOST SUSCEPTIBLE BROAD
		the United States and	LEAF WEEDS Apply to weeds up to the 8 leaf stage or 4 inches
		spring seeded wheat, barley,	in height, whichever comes first.
		cats and rye in Idaho,	If weed forms resette, apply
		Oregon, Washington,	before weeds exceed 2 inches
		Colorado, Wyoming and	ın diameter.
		Montana.	
	ļ	Apply to wheat, barley, oats	
	1	and rye from the leaf stage	
		but before the crop reaches the boot stage.	
	11/2-2 pints/4	Fall seeded wheat, barley,	SUSCEPTIBLE BROADLEAF
	'A L PINGA	oats and rye throughout the	WEEDS Apply to weeds up to
		United States and spring	the 4 leaf stage or 2 inches in
		seeded wheat, barley, cats	height, whichever comes first.
		and rye in Idaho, Oregon,	If weed forms rosette, apply
		Washington, Colorado,	before weeds exceed 1 inch in
		Wyoming and Montana.	diameter.
		Sundade mbase basis	
		Apply to wheat, barley, oats	
	į	and rye from the 3 leaf stage but before the crop reaches	
	ļ	the boot stage.	
	2 pints/A	Fall seeded wheat, barley,	Apply to henbit, knawel and
		oats and rye throughout	mayweed up to the 4
		the United States and	leaf stage or 2 inches in height,
		spring seeded wheat, barley,	whichever comes first. Apply to
		oats and rye in Idaho,	kochia and tansy mustard for
		Oregon, Washington,	improved control when these
		Colorado, Wyoming and	weeds exceed the
		Montana.	recommended stage of growth
		Apply to wheat, barley, oats	or are growing under cool, dry conditions.
		and rye from the 3 leaf	conditions.
		stage but before the crop	
		reaches the boot stage.	
	1-11/2 pints/A	Spring seeded wheat and	MOST SUSCEPTIBLE and
	,	barley except Idaho,	SUSCEPTIBLE BROADLEAF
		Oregon, Washington.	WEEDS Apply to weeds that do
		Colorado, Montana, and	not exceed the 8 leaf stage or 4
		Wyoming. Apply to wheat,	inches in height, whichever
		barley, oats and rye from	comes first. If weed forms
		the 3 leaf stage but before the crop reaches the boot	rosette,apply before weeds exceed 2 inches in diameter.
	}	stage.	Apply to kechia up to 2 inches
		Skige.	in height.
	11/2-2 pints/A	Spring seeded wheat and	Apply to kochia that is 2-4
	· '	barley except Idaho, Oregon,	inches in height.
		Washington, Colorado,	<del>-</del>
		Montana, and Wyoming.	
		Apply to wheat, barley, oats	
		and rye from the 3 leaf stage	
		but before the crop reaches	†
	Chemigation	the boot stage.	Apply to MOST SUSCEPTIBLE
	only	Apply to wheat, barley, oats and rye from the 3	Apply to MOST SUSCEPTIBLE and SUSCEPTIBLE broadleaf
	21117	leaf stage but before the	weeds up to the 4-leaf stage, 2
	2 pints/A	boot stage. Apply through	inches in height or 1 inch in
		automated sprinkler	diameter, whichever comes first.
		irrigation systems with	
		mechanical transfer loading	
		system only. See MIXING	
:		LOADING AND HANDLING	
Ì		INSTRUCTIONS section for	
:	Doot-bases	complete details. Make applications following	Anniu 3/ to 1 ping/4 to 14/30T
	- opt-ligitest	harvest of wheat, barley,	Apply 1/4 to 1 pint/A to MOST SUSCEPTIBLE BROADLEAF
	34-2 pints/A	oats and rye in the states of	WEEDS up to the 8 leaf stage
	a princerA	North Dakota, South Dakota.	or 4 inches in height, whichever
		Minnesota, and Montana.	come first. Apply 1½ to 2
		Do not plant any rotational	pints/A to SUSCEPTIBLE
		crop until the following use	BROADLEAF WEEDS up to the
		season.	4 leaf stage or 2 inches in
			height, whichever comes first.
			For control of both grasses and
			broadleaf weeds, tank mix
			BROMAC with Roundup <sup>9</sup> or
			Roundup + 2,4-D such as Weedone <sup>6</sup> or Weedar <sup>6</sup> brand
		•	herbicides.
			TOTO IVIDGO.

BROMAC TANK MIXTURE RECOMMENDATIONS			
PRODUCT	APPLICAT	ONTIMING AND SPECIFIC   CROP	COMMENTS WEEDS
BROMAC		Apply to spring seeded	For control of MOST SUSCEP
+	+	wheat, barley, oats and rye	TIBLE and SUSCEPTIBLE
Rhonox <sup>6</sup>	14 - 1/2 pint/A	from tillering stage, but	weeds and improved control of
(MCPA ester)	<u> </u>	before boot stage	redroot pigweed and kochia.  Apply to weeds up to the 8 leaf
	İ		stage, 3 inches in height or 2
			inches in diameter, whichever
	1		comes first. Apply to kochia and redroot pigweed up to 2 inches
	l		in height or diameter.
BROMAC	%-1% pints/A	Apply to wheat and barley	This tankmix improves control
+ Glean <sup>5</sup>	*-% oz/A	from the 3-leaf stage but before the crop reaches	of broadleaf weeds such as henbit,tansy mustard and chick
+	+	the boot stage. Refer to	weed. Apply to weeds up to the
nonionic	1 qt/100 gal	Glean label for crop rotation	8 leaf stage, 4 inches in height
surfactant	of water	and other estrictions.	or 2 inches in diameter, which ever comes first.
BROMAC	34-11/2 pints/A	Apply to wheat and barley	This tankmix improves control
+ 5	+	from the 3-leaf stage but	of broadleaf weeds such as
Finesse <sup>5</sup>	% - 1/2 OZ/A	before the crop reaches the boot stage. Refer to Finesse	henbit, tansy mustard and chick weed. Apply to weeds up to the
nonionic	1 qt/100 gal		8 leaf stage, 4 inches in height
surfactant	of water	other restrictions.	or 2 inches in diameter, which
BROMAC	14-114 punts/A	Apply to wheat and barley	ever comes first. This tankmix improves control
+	+	from the 3-leaf stage but	of broadleaf weeds such as
Ally <sup>5</sup>	1/∞ 0Z/A	before the crop reaches the	henbit, tansy mustard and chick
+ nonionic	1 00100 001	boot stage. Refer to Ally label for crop rotation and	weed. Apply to weeds up to the 8 leaf stage, 4 inches in height
surfactant	of water	other restrictions.	or 2 inches in diameter, which
DOOMAC	12.40 sii-	Call pands during at	ever comes first.
BROMAC	74-172 PiMS/A +	Fall seeded wheat from the 3 leaf stage but before	This tankmix improves control of broadleaves such as pros-
Banvei <sup>7</sup>	1/4-1/4 pint/A	jointing. Spring seeded	trate knotweed and kochia.
		wheat from the 3 to 5 leaf	Apply to weeds up to the 8 leaf
	i .	stage of growth.	stage, 3 inches in height or 2 inches in diameter, whichever
		DO NOT TREAT RYE WITH	comes first. Apply to kechia up
		BROMAC + BANVEL; ONLY	to 2 inches in height or diameter.
		FOR USE ON WHEAT. BARLEY, AND OATS	
BROMAC	¾-1½ pints/A	Winter wheat. Apply from	This tankmix improves control of
+	+	the 3 leaf stage but before	broadlea! weeds such as henbit.
Harmony Extra <sup>5</sup>	% 0Z/A +	the 3rd node is detectable. Refer to the Harmony Extra	chickweed and redroot pigweed. Apply to weeds up to the 8 leaf
nonionic	1 qt/100 gal	label for crop rotation and	stage, 4 inches in height or
surfactant .	of water	other restrictions.	across, whichever comes first.
		Spring wheat and barley. Apply after the 3 leaf stage	
		but before the 1st node is	
		detectable. Refer to the	
		Harmony Extra label for crop rotation and other	
		restrictions.	
BROMAC	%-11/2 pints/A	Apply to wheat and barley from the 3 leaf stage, but	This tank mix improves control of broadleaves such as heabit.
Amber <sup>8</sup>	0.28-0.56	before the flag leaf is visible.	tansy mustard, and pigweed.
+	oz/A	Refer to the Amber label	Apply to weeds up to the 4 leaf
nonionic surfactant	+ 0.25% v/v	for crop rotation and other restrictions.	stage, 4 inches in height or 2 inches in diameter, whichever
SUITALITATI	U.2376 VIV	restrictions.	comes first.
BROMAC	14-115 pints/A	Wheat and barley, Apply	This tankmix improves control
+ Express <sup>5</sup>	+ ¼ - ¼ oz/A	from the 3 leaf stage but	of broadleaf weeds such as
+ Exbiess	+ OZA	before the flag is visible. Refer to the Express label	henbit, chickweed, redroot pigweed and suppression of
nonionic		for crop rotation and other	Canada thistle. Apply to annual
surfactant	of water	restrictions.	weeds up to the 8 leaf stage, 4
			inches in height or across, whichever comes first and to
		,	Canada thistie 4 to 8 inches tall
		ļ	with 2 to 6 inches of new growth.
BROMAC	%-1½ pints/A	Apply to wheat and barley	This tankmix improves control of
+	+	after the crop begins to	kochia, wild buck wheat and
Curtail <sup>4</sup> or Curtail M <sup>4</sup>	2 pints/A	tiller up to the 1st node detectable.	suppression of Canada thictle. Apply to annual broadleaf
weeds		votoviaure.	up to the 8 leaf stage, 4 inches
			in height or 2 inches in diame-
			ter and to Canada thistle in the rosette to prebud stage.
BROMAC	f pint/A	Winter wheat in Idaho,	This tankmix improves control
+	+	Oregon and Washington.	of broadleaf weeds such as
metribuzin (Sencor <sup>2</sup> )	%-%- punts/A	Apply in spring after growth has started and secondary	chickweed, filaree, henbit. Apply to weeds up to the 4 leaf
,50.05. /		roots with a minimum of 3 to	stage, 2 inches in height or first.
	'	4 tillers have been estab-	diameter, whichever comes
		lished, but before the forming of joints in the stem.	A recognized authority should be consulted concerning the
		Avoid application when crop	use of this mixture in your area.
		has experienced winter kill,	,
		frost damage, disease or i drought.	

PRODUCT	RATE	CROP	WEEDS
PRODUCT + Avenge <sup>1</sup>	RATE 1-2 pints/A + 2½-4 pints/A	Winter wheat. Four leaf to tillering stage. Refer to	WEEUS This tankmix will provide wild oat control in addition to broad leaves. 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. Average use rates per acre are 2½ pints (1-10 oats per sq. ft.), 0 4 pints (11-25 oats per sq. ft.), or 4 pints (more
PROMAC + Assert <sup>1</sup>	1-1½ pints/A + 1-1½ pints/A	Barley Three to 7 leaf stage. Apply to wheat and barley from the 3 leaf stage but before bool stage. Refer to Assert label for crop rotation and other restrictions.	

- RESTRICTIONS AND PRECAUTIONS:
  WHEAT, BARLEY, OATS AND RYE

  Do not graze treated fields within 45 days after application.
  Do not apply when crops are under moisture stress.
  Do not apply when crop canopy overs the weeds as poor control will result.
  Reduced weed control may occur when weeds ere stressed from lack of moisture or cold temperatures. Refer to labels of products used in tank mixture for additional restrictions and precautions.
  Do not plant rotational crops within 30 days following bromoxynil herbicide application.
  Do not apply more than 2 pints of BROMAC per acre in a single growing season.

## CONSERVATION RESERVE PROGRAM AREAS (CRP) BROMAC RECOMMENDATIONS

APPLICATION TIMING AND SPECIFIC COMMENTS			
PRODUCT	RATE	CROP	WEEDS
BROMAC	1-2 pints/A	Apply to grasses from the 3 leaf stage.	Apply 1 pint/A to MOST SUS CEPTIBLE and 1½-2 pints/A to SUSCEPTIBLE broadleaf weeds up to the 8 leaf stage, 4 inches in height or 2 inches in diameter, whichever comes first.

#### RESTRICTIONS AND PRECAUTIONS: CRP AREAS

- Do not allow livestock to graze in treated areas or feed treated grass to livestock.
  If legumes are included in CRP area planting, severe injury may occur to legumes treated with BROMAC.
  Do not plant rotational crops within 30 days following bromoxynil herbicide application.
  Do not apply more than 2 pints of BROMAC per acre in a single growing season.

# GRASSES GROWN FOR SEED PRODUCTION BROMAC RECOMMENDATIONS Seedling and Established Grasses

	RATE   RATE   APPLICATION TIMING AND SPECIFIC COMMENTS			
PRODUCT	Per	Per 1000	CROP	WEEDS
	Acre	Sq. Ft.		
BROMAC	1-2	0.375 -	Apply to established and	Refer to the GENERAL WEED
	pints	0.75	newly seeded grasses	LIST for a listing of susceptible
	Į I	Fl. Oz.	grown for seed or sed	broadleaf weeds. Optimal control
	l		production before the boot	will be attained when weeds are
	1		stage. Established grasses	treated in the seedling stage
			tolerant to BROMAC include	(less than 4 leaf stage, 2 inches
			bentgrasses, Kentucky Blue	in height, or 1 inch in diameter).
			grass, Fescues, Ryegrass.	
	1	]	Bermudagrass, St. Augustine	
	i i	<b>!</b>	grass and Zoylagrass.	l
			BROMAC may also be used	
			on seeding grasses such as	
			Merion, Perk, Delta, or	
	i '		common Kentucky Blue	i
			grasses, Pennlawn, Chewings, Illahee or Alta	
			Fescues, Orchardgrass,	
			Highland, Seaside or Astoria	
			Bentgrasses, perennial Rye	
			grasses, Bahiagrass and	
	i		Zoysiagrass.	
BROMAC	Chemi	0.75	Apply to established and	
	gation	FI.Oz.	newly seeded grasses	
	_		grown for seed or sod	
	2 pints		production before the	
	A only	ĺ	boot stage.	
			Apply through automated	
			sprinkler imigation systems	
			with mechanical transfer	
			loading system only.	
		İ	See MIXING, LOADING	
			AND HANDLING INSTRUCTIONS section	
			for complete details. Refer	
			to the list of established	
:			grasses that are tolerant	
			to BROMAC.	
	<u> </u>	<u> </u>	to briowing.	L

RESTRICTIONS AND PRECAUTIONS: GRASSES GROWN FOR SEED OR SOD PRODUCTION

- . Do not allow investock to graze in treated areas or feed treated grasses, forage, hay, straw, Do not apply BROMAC to grasses grown for seed production with backpack or
- hand-held application equipment.
- The Restricted Entry Interval (REI) for harvesting sod farm turf is 12 days. The REI for other turi activities is 24 hours.
- tun activities is 24 noties.

  On not plant rotational crops within 30 days following bromoxynil herbicide application.

  Do not apply more than 2 pints of BROMOX/MCPA 2-2 per acre in a single growing season.

FLAX (Linum usitatissimum only) BROMAC RECOMMENDATIONS

APPLICATION TIMING AND SPECIFIC COMMENTS			
PRODUCT	RATE	CROP	WEEDS
BROMAC	0.9 pint/A	to 8 inches in height. Do not apply BROMAC	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.

RESTRICTIONS AND PRECAUTIONS; FLAX (Linum usitatissimum 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 BROMAC application to flax grown on high organic, peat type soils
- Application under high humidity conditions can injure flax.
   Unless otherwise instructed, do not apply BROMAC with crop oil concentrate, surfactants or ntrogen solutions
- Do not use on ornamental flax.
- Do not plant rotational crops within 30 days following bromoxynil harbicide application.
   Do not apply more than 0.9 pints of BROMOX/MCPA 2-2 per acre in a single growing.

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