BUCTRIL® 4 Cereals Herbicide

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

ACTIVE INGREDIENT:
Octanoic acid ester of bromoxynil* (3,5-dibromo-4-hydroxybenzonitrile) ........................................ 28%
Heptanoic acid ester of bromoxynil (3,5-dibromo-4-hydroxybenzonitrile) ........................................ 27%
INERT INGREDIENTS: ................................................................. 45%
Contains xylene range/petroleum distillates.
*Equivalent to not less than 4.0 pounds of bromoxynil per gallon.

E.P.A. Reg. No. 264-540 E.P.A. Est. No. 34704-MS-1

KEEP OUT OF REACH OF CHILDREN
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 the label, find someone to explain it to you in detail.)

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

FIRST AID

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.

IF ON SKIN OR CLOTHING:
• Take off contaminated clothing.
• Rinse skin immediately with plenty of water for 15-20 minutes.
• Call a poison control center or doctor for treatment advice.

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 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.

For MEDICAL Emergencies Call 24 Hours A Day 1-800-334-7577.
Have the product container or label with you when calling a poison control center or doctor or going for treatment.

NOTE TO PHYSICIAN: Contains petroleum distillate – vomiting may cause aspiration pneumonia.

PRECAUTIONARY STATEMENTS

WARNING
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
May be fatal if swallowed. Harmful if absorbed through skin or inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.
PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear a long-sleeved shirt and long pants, chemical-resistant gloves such as barrier laminate or nitrile gloves for cleaning equipment and mixing/loading, a chemical-resistant apron when cleaning equipment and mixing/loading and shoes 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.

When handlers use closed systems, enclosed cabs, or aircraft 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.

If you will handle a total of 30 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 rinseate directly to the mixing or spray tank.

Application from a tractor or aerial application with a completely enclosed cab is required whenever this product is applied to 360 or more acres in a day. To avoid contamination, coveralls and gloves worn when handling the concentrate must be removed prior to entering an enclosed cab or cockpit. When applying from a tractor with an enclosed cab, clean coveralls and clean nitrile gloves must be kept inside the cab, and must be worn when exiting the cab to perform in-field maintenance or repair.

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.

AERIAL APPLICATION: Aerial application is prohibited within 300 feet of residential areas (e.g., homes, schools, playgrounds, shopping areas, hospitals, etc.)

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

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

User Safety Recommendations

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Users should remove clothing immediately if pesticide gets inside. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

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

PHYSICAL AND CHEMICAL HAZARDS

Do not use or store near heat or open flame.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Read entire label before using this product.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.
AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labelling 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 expectations 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 turf and cotton, the REI is 24 hours. 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.

The REI for cotton is 96 hours and includes scouts and crop advisors. The exemption in the Worker Protection Standard for certified crop advisors does not apply to bromoxynil. The REI for cotton is reduced to 12 hours for workers wearing the following personal protective equipment (PPE): long pants, long sleeved shirt, scout apron, plus shoes and socks. Scouts and crop advisors are prohibited from entering the treated area during the entire REI (96 hours without specified PPE, 12 hours with specified PPE) for bromoxynil. Applicators and other users must inform crop advisors and scouts of this requirement.

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 barrier laminate or viton gloves, shoes plus socks and protective eyewear.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE

Do not store near fertilizers or seeds. 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 smoke.

RETURNABLE -- REFILLABLE CONTAINER

This material may be repackaged in 15 or 30 gallon retumable-refillable containers by Bayer CropScience or a registered establishment under contract to Bayer CropScience. After use, return the container to the point of purchase or designated locations. This container must only be refilled with BUCTRIL® 4 Cereals 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

BUCTRIL® 4 Cereals is formulated as an emulsifiable concentrate of octanoic acid and heptanoic acid esters of bromoxynil containing the equivalent of 4 pounds of bromoxynil per gallon.

BUCTRIL® 4 Cereals is a selective postemergence herbicide for control of important broadleaf weeds infesting wheat, barley, oats, rye and triticale. Optimum weed control is obtained when BUCTRIL® 4 Cereals is applied to actively growing weed seedlings. BUCTRIL® 4 Cereals is primarily a contact herbicide, therefore thorough coverage of the weed seedlings is essential for optimum control.

BUCTRIL® 4 Cereals has little residual activity. Therefore subsequent flushes of weeds will not be controlled by the initial treatment. Generally crops that form a good canopy will help shade subsequent weed flushes. However, certain crops or short-straw varieties, for example Yaccora Rojo wheat, may not develop the crop canopy fast enough to shade the subsequent flushes of weeds.

Occasional transitory leaf burn may occur. The temporary leaf burn is similar to that seen with liquid fertilizer. Because the activity of BUCTRIL® 4 Cereals is not systemic, 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.

MIXING, LOADING AND HANDLING INSTRUCTIONS

Bulk Containers

If you will handle a total of 30 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 rinseate directly to the mixing or spray tank.

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

**TANK MIXTURES:** BUCTRL® 4 Cereals can 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. BUCTRL® 4 Cereals cannot be mixed with any product containing a label prohibition against such mixing. Refer to the specific crop section for rate recommendations and other restrictions. To apply BUCTRL® 4 Cereals in mixture with another product, fill the spray tank 1/2 to 3/4 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 BUCTRL® 4 Cereals and add water to the spray tank to the desired level. If tankmixing with other product types, add the BUCTRL® 4 Cereals 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.

**COMPATIBILITY OF OTHER PESTICIDES WITH BUCTRL® 4 CEREALS**

The following foliar insecticides are compatible with BUCTRL® 4 Cereals Herbicide as tank mixtures.

<table>
<thead>
<tr>
<th>INSECTICIDE COMMON NAME</th>
<th>TRADE NAME</th>
<th>FORMULATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acephate</td>
<td>Orthene®</td>
<td>Soluble Powder</td>
</tr>
<tr>
<td>Amitraz</td>
<td>Ovasyn®</td>
<td>Emulsifiable Concentrate</td>
</tr>
<tr>
<td>Azinphos-methyl</td>
<td>Guthion®</td>
<td>Liquid</td>
</tr>
<tr>
<td>Carbaryl</td>
<td>Sevin®</td>
<td>Sprayable wettable powder or Flowable</td>
</tr>
<tr>
<td>Carbofuran</td>
<td>Furadan®</td>
<td>Flowable</td>
</tr>
<tr>
<td>Chlordpyrifos</td>
<td>Lorsban®</td>
<td>Emulsifiable Concentrate</td>
</tr>
<tr>
<td>Cyfluthrin</td>
<td>Baythroid®</td>
<td>Emulsifiable Concentrate</td>
</tr>
<tr>
<td>Deltamethrin</td>
<td>Decis®</td>
<td>Emulsifiable Concentrate</td>
</tr>
<tr>
<td>Diazinon</td>
<td>Various</td>
<td>Emulsifiable Concentrate</td>
</tr>
<tr>
<td>Diclofop</td>
<td>Bidrin®</td>
<td>Emulsifiable Concentrate</td>
</tr>
<tr>
<td>Dimethoate</td>
<td>Various</td>
<td>Emulsifiable Concentrate</td>
</tr>
<tr>
<td>Esfenvalerate</td>
<td>Asana XL®</td>
<td>Emulsifiable Concentrate</td>
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<tr>
<td>Fenvalerate</td>
<td>Pydrin®</td>
<td>Emulsifiable Concentrate</td>
</tr>
<tr>
<td>Imidacloprid</td>
<td>Provedo®</td>
<td>Flowable</td>
</tr>
<tr>
<td>Lambda-Cyhalothrin</td>
<td>Karate®</td>
<td>Emulsifiable Concentrate</td>
</tr>
<tr>
<td>Malathion</td>
<td>Various</td>
<td>Emulsifiable Concentrate</td>
</tr>
<tr>
<td>Methomyl</td>
<td>Lannate®</td>
<td>Liquid</td>
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<tr>
<td>Methyl Parathion</td>
<td>Methyl Parathion®</td>
<td>Emulsifiable Concentrate</td>
</tr>
<tr>
<td>Methyl Parathion</td>
<td>Pannacap-M®</td>
<td>Flowable</td>
</tr>
<tr>
<td>Oxamyl</td>
<td>Vydate®</td>
<td>Liquid</td>
</tr>
<tr>
<td>Oxathion-methyl</td>
<td>Metasystox-R®</td>
<td>Sprayable Concentrate</td>
</tr>
<tr>
<td>Permethrin</td>
<td>Pounce®</td>
<td>Emulsifiable Concentrate</td>
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<tr>
<td>Thiodicarb</td>
<td>Larvin®</td>
<td>Flowable</td>
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<tr>
<td>Trichlorfon</td>
<td>Dylox®</td>
<td>Soluble Powder</td>
</tr>
<tr>
<td>Zeta-Cypermethrin</td>
<td>Fury®</td>
<td>Emulsifiable Concentrate</td>
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<table>
<thead>
<tr>
<th>HERBICIDE COMMON NAME</th>
<th>TRADE NAME</th>
<th>FORMULATION</th>
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<tbody>
<tr>
<td>Cyanazine¹</td>
<td>Bladex®</td>
<td>Liquid</td>
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<tr>
<td>MSMA</td>
<td>MSMA®</td>
<td>Liquid</td>
</tr>
<tr>
<td>Prometryn</td>
<td>Caparo®</td>
<td>Soluble Powder</td>
</tr>
<tr>
<td>Pyrithiobac-Sodium</td>
<td>Staple®</td>
<td></td>
</tr>
<tr>
<td>PLANT GROWTH REGULATORS</td>
<td>TRADE NAME</td>
<td>FORMULATION</td>
</tr>
<tr>
<td>--------------------------</td>
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</tr>
<tr>
<td>Mepiquat Chloride</td>
<td>Fix®</td>
<td>Liquid Concentrate</td>
</tr>
<tr>
<td>Mepiquat Chloride</td>
<td>MEP®</td>
<td>Liquid Concentrate</td>
</tr>
<tr>
<td>Mepiquat Chloride +</td>
<td>Mep Plus®</td>
<td>Liquid Concentrate</td>
</tr>
<tr>
<td>Bacillus cereus</td>
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</table>

If tank mixing with products other than those listed above or 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 BUCTRIL® 4 Cereals. Note that Cyanazine cannot be used after December 31, 2002.

**SPRAYABLE LIQUID FERTILIZERS AND SPRAY ADDITIVES**

BUCTRIL® 4 Cereals 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 BUCTRIL® 4 Cereals. 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 BUCTRIL® 4 Cereals is evenly mixed with the fertilizer. Leaf burn may occur when BUCTRIL® 4 Cereals is applied with liquid fertilizer, but new leaves are not adversely affected.

CAUTION: Fertilizers and spray additives can increase foliage leaf burn when applied with BUCTRIL® 4 Cereals. Do not apply fertilizers or spray additives with BUCTRIL® 4 Cereals if leaf burn is a major concern due to environmental conditions, crop or variety sensitivity to BUCTRIL® 4 Cereals. Do not apply BUCTRIL® 4 Cereals in combination with fertilizers or spray additives if restricted under the individual crop use directions.

**APPLICATION PROCEDURES**

BUCTRIL® 4 Cereals 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 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 BUCTRIL® 4 Cereals 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. When corn or grain sorghum are large enough to interfere with the spray pattern, drop nozzles should be used to obtain uniform weed coverage. If you are unsure of the infestation level or size of crop, consult your local extension service.

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

**AERIAL APPLICATION**

Use orifice discs, cores and nozzle types and arrangements that will provide for optimum spray distribution and maximum coverage. In general a minimum spray volume of 5 GPA and a maximum pressure of 40 psi are recommended.

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

**SPRINKLER IRRIGATION APPLICATION**

BUCTRIL® 4 Cereals Herbicide can be applied through sprinkler irrigation systems to wheat, barley, oats, rye and titicale.

Apply BUCTRIL® 4 Cereals 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 BUCTRIL® 4 Cereals Herbicide.
9. BUCTRIL® 4 Cereals Herbicide should be applied continuously for the duration of the water application with center pivot and continuous lateral move systems. Application of BUCTRIL® 4 Cereals 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 BUCTRIL® 4 Cereals Herbicide is diluted in the supply tank, fill the tank with half of the water amount desired, add the BUCTRIL® 4 Cereals and then add remaining water amount with agitation. Always dilute with at least 4 parts water to 1 part BUCTRIL® 4 Cereals.
13. Start the sprinklers and then inject BUCTRIL® 4 Cereals Herbicide into the irrigation line. BUCTRIL® 4 Cereals 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 BUCTRIL® 4 Cereals Herbicide label 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 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.

**CULTIVATION**

When properly utilized, timely cultivations of row crops may aid overall weed control efforts as well as crop growth. However, cultivation BEFORE or DURING BUCTRIL® 4 Cereals applications may place target weeds under stress, resulting in erratic weed control. Whenever BUCTRIL® 4 Cereals is being utilized in an overall weed control program, plan to postpone any anticipated cultivations until 5-7 days after application to ensure best performance.

**SPRAY DRIFT**

**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 habitats for threatened or endangered species, non-target crops) is minimal (e.g., when wind is blowing away from the sensitive areas).

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather-related factors determines the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

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

1. The distance of the outermost nozzles on the boom must not exceed 3/4 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. The applicator should be familiar with and take into account the information covered in the Aerial Drift Reduction Advisory Information.

INFORMATION ON DROPLET SIZE: (This section is advisory in nature and does not supersede the mandatory label requirements)

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 below).

CONTROLLING DROPLET SIZE: (This section is advisory in nature and does not supersede the mandatory label requirements)

- 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 pressure.
- Number of nozzles - Use the minimum number of nozzles that provide uniform coverage.
- 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 produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

BOOM LENGTH: (This section is advisory in nature and does not supersede the mandatory label requirements)

For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.

APPLICATION HEIGHT: (This section is advisory in nature and does not supersede the mandatory label requirements)

Applications should not be made at a height greater than 10 feet above the top of the largest 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: (This section is advisory in nature and does not supersede the mandatory label requirements)

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

WIND: (This section is advisory in nature and does not supersede the mandatory label requirements)

Drift potential is lowest between wind 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: (This section is advisory in nature and does not supersede the mandatory label requirements)

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: (This section is advisory in nature and does not supersede the mandatory label requirements)

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 the 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.
GENERAL WEED LIST

Postemergence application of BUCTRIL® 4 Cereals Herbicide will control the following weeds when sprayed in the seedling stage. Maximum weed stage of growth is listed under RECOMMENDED USES for each crop.

MOST SUSCEPTIBLE BROADLEAF WEED SPECIES

Annual Sowthistle  (Sonchus oleraceus)
Black Nightshade  (Solanum nigrum)
Blue Mustard  (Chorispora tenella)
Bristly starbur  (Acanthospermum hispidum)
Coast Fiddleneck  (Amsinckia intermedia)
Common Cocklebur  (Xanthium strumarium)
Common Lambsquarters  (Chenopodium album)
Common Tarweed  (Hemizonia congesta)
Cutleaf Nightshade  (Solannum triflorum)
Eastern Black Nightshade  (Solanum ptycanthum)
Field Pennycress  (Thlaspi arvense)
Green Smartweed  (Polygonum scabrum)
Hairy Nightshade  (Solanum sarachoides)
Jimsonweed  (Datura stramonium)
Ladysthumb  (Polygonum persicaria)
Lanceleaf sage  (Salvia reflexa)
Pennsylvania Smartweed  (Polygonum strumarium)
Pepperweed spp.  (annual) (Lepidium spp.)
Shepherdspurse  (Capsella bursa-pastoris)
Silverleaf Nightshade  (Solanum eleagnifolium)
Tartary Buckwheat  (Fagopyrum tataricum)
1Sunflower  (Helianthus annuus)
Wild Buckwheat  (Polygonum convolvulus)

SUSCEPTIBLE BROADLEAF WEED SPECIES

Buffalobur  (Solanum rostratum)
Burcucumber  (Sicyos angulatus)
Cluster Flower  (Fleberia trinervia)
Common Groundsel  (Senecio vulgaris)
Common ragweed  (Ambrosia artemisiifolia)
Corn Chamomile  (Anthemis arvensis)
Corn Gromwell  (Lithospermum arvense)
Cow Cockle  (Saponaria vaccaria)
Devils claw  (Proboscidea louisianica)
Giant Ragweed  (Ambrosia trifida)
Hemp Sesbania  (Sesbania exaltata)
Hop hornbeam Copperleaf  (Acalypha ostryaefolia)
Ivy leaf morning glory  (Ipomoea hederacea)
Knavel  (Scleranthus annus)
2Kochia  (Kochia scoparia)
London Rocket  (Sisymbrium irio)
Mayweed  (Anthemis cotula)
Pitted morning glory  (Ipomoea lacunosa)
Prairie sunflower  (Helianthus petiolaris)
Prostrate Knotweed  (Polygonum aviculare)
Puncture Vine  (Tribulus terrestris)
2Redroot Pigweed  (Amaranthus retroflexus)
Russian Thistle  (Salsola kali)
2Spiny Pigweed  (Amaranthus spinosus)
Tall Morning glory  (Ipomoea purpurea)
2Tall Waterhemp  (Amaranthus tuberculatus)
Tumble mustard  (Sisymbrium altissimum)
Velvetleaf  (Abutilon theophrasti)
Venice Mallow  (Hibiscus trionum)
Wild Mustard  (Sinapis arvensis)
Wild Radish  (Raphanus raphanistrum)
2Woolly Crotan  (Crotan capitatus)
Yellow Starthistle  (Centaurea solstitialis)

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

2 For effective control, these weeds should not exceed the 4 leaf stage or 2 inches in height, whichever comes first.

WEED SUPPRESSION

BUCTRIL® 4 Cereals suppresses the growth of Canada thistle (Cirsium arvense) by burning down top growth. Regrowth may occur.
# CEREAL GRAIN CROPS

## WHEAT, BARLEY, OATS, RYE AND TRITICALE

### BUCTRIL® 4 CEREALS RECOMMENDATIONS

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>RATE</th>
<th>CROP</th>
<th>WEEDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUCTRIL® 4 Cereals</td>
<td>1/2-1 pint/A</td>
<td>Spring seeded wheat, barley, oats, rye and triticale. Use in all states except Idaho, Oregon, Washington, Colorado, Wyoming, and Montana. Apply from emergence up and prior to the boot stage.</td>
<td>Apply 1/2 pint/A to MOST SUSCEPTIBLE and 3/4-1 pint/A to SUSCEPTIBLE weeds that do not exceed the 4 leaf stage or 2 inches in height, whichever comes first. If weed forms rosette, apply before weeds exceed 1 inch in diameter. Use BUCTRIL® 4 Cereals at 3/4-1 pint/A for control of kochia that is 2-4 inches in height and pigweed that does not exceed the 4 leaf stage or 2 inches in height, whichever comes first.</td>
</tr>
<tr>
<td>3/4-1 pint/A</td>
<td></td>
<td>Fall seeded wheat, barley, oats, rye and triticale throughout the United States. Apply from emergence to the boot stage. Spring seeded wheat, barley oats, rye and triticale in Idaho, Oregon, Washington, Colorado, Wyoming, and Montana. Apply from emergence up and prior to the boot stage.</td>
<td>Apply to MOST SUSCEPTIBLE weeds (see GENERAL WEED LIST) 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. Apply to SUSCEPTIBLE broadleaf weeds up to the 4 leaf stage, 2 inches in height or 1 inch in diameter, whichever comes first.</td>
</tr>
<tr>
<td>Chemigation</td>
<td>1 pint/A only</td>
<td>Apply to wheat, barley, oats, rye and triticale from emergence to the boot stage. Apply through automated sprinkler irrigation systems with a mechanical transfer loading system only. See MIXING, LOADING AND HANDLING INSTRUCTIONS section for complete details.</td>
<td>Apply to MOST SUSCEPTIBLE broadleaf weeds up to the 8 leaf stage or 4 inches in height or 2 inches in diameter, whichever comes first. Apply to SUSCEPTIBLE broadleaf weeds up to the 4 leaf stage, 2 inches in height or 1 inch in diameter, whichever comes first. Do not use chemigation for control of weeds that exceed 4 inches in height because control may be unacceptable.</td>
</tr>
<tr>
<td>Small Grains underseeded with Alfalfa</td>
<td>1/2-3/4 pint/A</td>
<td>Apply to wheat, barley, oats, rye or triticale underseeded with alfalfa after small grains emergence up to the boot stage and when underseeded alfalfa has a minimum of 4 trifoliate leaves. Follow all precautions and restrictions listed under the small grains and seeding alfalfa sections.</td>
<td>Apply 1/2 pint/A to MOST SUSCEPTIBLE and 3/4 pint/A to SUSCEPTIBLE broadleaf weeds that do not exceed the 4 leaf stage, 2 inches in height or 1 inch in diameter, whichever comes first.</td>
</tr>
</tbody>
</table>
### BUCTRIL® 4 CEREALES TANK MIXTURE RECOMMENDATIONS

<table>
<thead>
<tr>
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<th>APPLICATION TIMING AND SPECIFIC COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BUCTRIL® 4 Cereals + 2,4-D (such as WEEDONE® and WEEDAR® brand Herbicide)</strong></td>
<td>1/2-1 pint/A + 1/4-1/2 lb ai/A</td>
<td>Apply to wheat, barley, oats and rye from the fully tilled but before jointing stage.</td>
<td>This tankmix improves control of mustards and pigweed. Apply to weeds up to the 4 leaf stage, 2 inches in height or 1 inch in diameter, whichever comes first.</td>
</tr>
<tr>
<td></td>
<td>3/8-1/2 pint/A + 1/4-1/2 lb ai/A</td>
<td>Apply to wheat and barley in Minnesota, North and South Dakota from the fully tilled but before jointing stage.</td>
<td>This tankmix improves control of wild buckwheat, redroot pigweed and wild mustard. Apply to weeds up to the 4 leaf stage, 2 inches in height or 1 inch in diameter, whichever comes first.</td>
</tr>
<tr>
<td><strong>BUCTRIL® 4 Cereals + MCPA (such as RHONOX® or RHOMENE®)</strong></td>
<td>1/2-1 pint/A + 1/4-1/2 lb ai/A</td>
<td>Apply to wheat, barley, oats and rye from the 4 leaf stage but before jointing.</td>
<td>This tankmix improves control of mustards, pigweed and kochia. Apply to weeds up to the 4 leaf stage, 2 inches in height or 1 inch in diameter, whichever comes first.</td>
</tr>
<tr>
<td><strong>BUCTRIL® 4 Cereals + Banvel®</strong></td>
<td>1/2-3/4 pint/A + 1/8-1/4 pint/A</td>
<td>FOR USE ON WHEAT ONLY. DO NOT TREAT BARLEY, OATS, RYE AND TRITICALE. Fall seeded wheat apply prior to the jointing stage. Spring seeded wheat apply up to the 5 leaf stage.</td>
<td>This tankmix improves control of broadleaves such as prostrate knotweed. Apply to weeds up to the 4 leaf stage, 2 inches in height or 1 inch in diameter, whichever comes first.</td>
</tr>
<tr>
<td><strong>BUCTRIL® 4 Cereals + Glean® + Non-ionic surfactant</strong></td>
<td>3/8-3/4 pint/A + 1/6-1/3 oz/A + 1 qt/100 gal of water</td>
<td>Apply to wheat and barley from the 2 leaf stage but before boot stage. Refer to Glean® label for crop rotation and other restrictions.</td>
<td>This tankmix improves control of broadleaves such as henbit, tansy mustard and pigweed. Apply to weeds up to the 4 leaf stage, 4 inches in height or 2 inches in diameter, whichever comes first.</td>
</tr>
<tr>
<td><strong>BUCTRIL® 4 Cereals + Ally® + Non-ionic surfactant</strong></td>
<td>3/8-3/4 pint/A + 1/10 oz/A + 1 qt/100 gal of water</td>
<td>Apply to wheat and barley from the 2 leaf stage but before the boot stage. Refer to Ally® label for crop rotation and other restrictions.</td>
<td>This tankmix improves control of broadleaves such as 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.</td>
</tr>
<tr>
<td><strong>BUCTRIL® 4 Cereals + Finesse® + Non-ionic surfactant</strong></td>
<td>3/8-3/4 pint/A + 1/6-1/3 oz/A + 1 qt/100 gal of water</td>
<td>Apply to wheat and barley from the 2 leaf stage but before the boot stage. Refer to Finesse® label for crop rotation and other restrictions.</td>
<td>This tankmix improves control of broadleaves such as tansy mustard, henbit, chickweed and pigweed. Apply to weeds up to the 4 leaf stage, 4 inches in height or 2 inches in diameter, whichever comes first.</td>
</tr>
<tr>
<td><strong>BUCTRIL® 4 Cereals + Amber® + Non-ionic surfactant</strong></td>
<td>3/8-3/4 pint/A + 0.28-0.56 oz/A + 0.25-0.5% v/v</td>
<td>Apply to wheat and barley after the 3 leaf stage but before the flagleaf is visible. Refer to the Amber® label for crop rotation and other restrictions.</td>
<td>This tankmix improves control of broadleaves such as tansy mustard, henbit, and pigweed. Apply to weeds up to the 4 leaf stage, 4 inches in height or 2 inches in diameter, whichever comes first.</td>
</tr>
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<tr>
<td>BUCTRIL® 4 Cereals + Express® + Non-ionic surfactant</td>
<td>1/2-3/4 pint/A + 1/6-1/3 oz/A + 1 qt/100 gal of water</td>
<td>Winter wheat. Apply after crop is in the 2 leaf stage but before the flag leaf is visible. Refer to Express® label for crop rotation and other restrictions.</td>
<td>This tankmix improves control of broadleaf weeds such as redroot pigweed, tansy mustard and suppression of Canada thistle. Apply to annual weeds up to the 4 leaf stage, 4 inches tall or across, whichever comes first, and to Canada thistle 4 to 8 inches tall with 2 to 6 inches of new growth.</td>
</tr>
<tr>
<td>BUCTRIL® 4 Cereals + Harmony® Extra + Non-ionic surfactant</td>
<td>3/8-3/4 pint/A + 1/6-1/3 oz/A + 1 qt/100 gal of water</td>
<td>Winter wheat. Apply after the 2 leaf stage but before the 3rd node is detectable. Refer to the Harmony® Extra label for crop rotation and other restrictions. Spring wheat and barley. Apply after the 2 leaf stage but before the 1st node is detectable. Refer to the Harmony® Extra label for crop rotation and other restrictions.</td>
<td>This tankmix improves control of broadleaf weeds such as henbit, chickweed and redroot pigweed. Apply to weeds up to the 4 leaf stage, 4 inches in height or across, whichever comes first.</td>
</tr>
<tr>
<td>BUCTRIL® 4 Cereals + Curtail® or Curtail® M4</td>
<td>1/2-3/4 pint/A + 2 pints/A</td>
<td>Apply to wheat and barley after the crop begins to tiller up to the 1st node detectable.</td>
<td>This tankmix improves control of kochia, wild buckwheat and Canada thistle. Apply to annual broadleaf weeds up to the 8 leaf stage up to 4 inches in height or 2 inches in diameter and Canada thistle in the rosette to prebud stage.</td>
</tr>
<tr>
<td>BUCTRIL® 4 Cereals + metribuzin (Sencor® or Lexone®)</td>
<td>1/2-5/8 pint/A + 1/8-1/4 lb ai/A</td>
<td>Winter wheat in Idaho, Montana, Oregon and Washington. Use in spring after growth has started and secondary roots with a minimum of 3 to 4 tillers have been established but before boot stage. Avoid application when crop has experienced winter kill, frost damage, disease or drought.</td>
<td>This tankmix improves control of broadleaves such as chickweed, filaree, henbit and dogfennel. Apply to weeds that do not exceed 2 inches tall or rosettes of 2 inches in diameter. The higher use rates of both products should be used only in emergency weed situations and if some minor crop injury is acceptable. A recognized authority should be consulted concerning the use of this mixture in your area.</td>
</tr>
<tr>
<td>BUCTRIL® 4 Cereals + diuron</td>
<td>1/2 pint/A + 4/10 lb ai/A</td>
<td>Winter wheat and winter barley in Idaho, Oregon and Washington. Use only in areas where annual rainfall exceeds 16 inches. One fall application after emergence but before soil freezes or in spring as soon as soil thaws.</td>
<td>This tankmix improves control of broadleaves such as henbit and gromwell. Apply to weeds before they are 2 inches tall or 2 inches in diameter.</td>
</tr>
<tr>
<td>BUCTRIL® 4 Cereals + Tiller®</td>
<td>1/2 pint/A + 1 pint/A</td>
<td>Spring wheat. Apply when crop begins to tiller (3 – 4 leaf stage) up to the 6 leaf stage. Refer to the Tiller® label for complete use directions and restrictions.</td>
<td>In addition to broadleaf weeds controlled by BUCTRIL® 4 Cereals this tankmix will control green foxtail from the 2-leaf to 2-tiller stage of growth.</td>
</tr>
<tr>
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</tr>
<tr>
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</tr>
<tr>
<td>BUSTRIL® 4 Cereals + Hoelon®</td>
<td>1/2-1 pint/A + 2 2/3 pints/A</td>
<td>Spring Barley.</td>
<td>This tankmix will provide wild oat, green foxtail and annual ryegrass control in addition to broadleaves. Apply to grasses 1-3 leaf stage and broadleaves no larger than 4 leaf stage or rosettes of 1.5 inches in diameter.</td>
</tr>
<tr>
<td></td>
<td>1/2-1 pint/A + 2 2/3-3 1/3 pints/A</td>
<td>Winter wheat and spring wheat. After emergence but before jointing.</td>
<td></td>
</tr>
<tr>
<td>BUSTRIL® 4 Cereals + Hoelon® + Crop Oil Concentrate</td>
<td>1/2-1 pint/A + 2-2 2/3 pints/A + 1-2 pints/A</td>
<td>Winter wheat and spring wheat.</td>
<td>Use a minimum of 10 gallons of spray volume per acre. <strong>DO NOT USE ON BARLEY.</strong></td>
</tr>
<tr>
<td>BUSTRIL® 4 Cereals + Avenge®</td>
<td>1/2-1 pint/A + 2 1/2-4 pints/A</td>
<td>Spring Wheat. Five to 6 leaf stage. Refer to Avenge® label for varietal and other restrictions.</td>
<td>Barley. Two to 7 leaf stage.</td>
</tr>
</tbody>
</table>

**RESTRICTIONS AND PRECAUTIONS:** Wheat, Barley, Oats, Rye and Triticale

- Do not graze treated fields within 45 days following treatment.
- Do not apply when crops are under moisture stress.
- Do not apply when crop canopy covers the weeds as poor weed control will result.
- Do not apply when underseeded alfalfa is under moisture, temperature, insect or disease stress or has been stressed by other pesticide carryover or application.
- Do not add a surfactant or crop oil when applying to underseeded alfalfa or increased injury will occur.
- Do not cut for feed or graze spring treated underseeded alfalfa within 30 days following treatment.
- Do not cut for feed or graze fall or winter treated underseeded alfalfa until spring, at least 60 days following treatment.
- 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 plant rotational crops within 30 days following BUSTRIL® 4 Cereals Herbicide application.
- The total cumulative rate must not exceed 1 pint/A per season.
IMPORTANT: READ BEFORE USE

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.

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