

Reg # 264-531

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7/1/99



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

APR 20 1994

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Nick Somma  
RHONE-POULENC AG COMPANY  
BOX 12014  
RESEARCH TRIANGLE PARK, NC. 27709

Subject: Label Amendment Submission of 07/27/93 in Response to PR Notice 93-7  
EPA Reg. No. 264-531  
BUCTRIL GEL

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

**WHAT THIS ACCEPTANCE MEANS:**

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

**WHAT YOU NEED TO DO NEXT:**

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.

**BEST AVAILABLE COPY**



Recycled/Recyclable  
Printed with Soy/Canola Ink on paper that  
contains at least 50% recycled fiber

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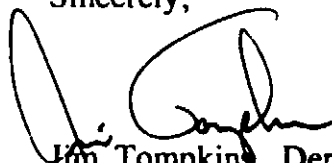
Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs (7505C)  
U.S. Environmental Protection Agency  
401 M Street, SW  
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs  
Room 266A, Crystal Mall 2  
1921 Jefferson Davis Highway  
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief  
Registration Support Branch  
Registration Division (7505W)

Attachment

**BEST AVAILABLE COPY**

# BUCTRIL<sup>®</sup> GEL HERBICIDE

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FOR THE CONTROL OF CERTAIN BROADLEAF WEEDS IN SMALL GRAINS, SEEDLING ALFALFA, CORN, SORGHUM, FLAX, GARLIC, ONIONS, MINT AND GRASSES GROWN FOR SEED AND SOD PRODUCTION.

ACTIVE INGREDIENT: Octanoic acid ester of bromoxynil\* (3,5-dibromo-4-hydroxybenzotrile).....28.7%  
Heptanoic acid ester of bromoxynil\* (3,5-dibromo-4-hydroxybenzotrile).....27.6%

INERT INGREDIENTS:.....43.7%

\*Bromoxynil octanoate and heptanoic equivalent to but not less than 4 pounds of bromoxynil per gallon of product.

E.P.A. Reg. No. 264-531

E.P.A. Est. No. 264-GA-1

## KEEP OUT OF REACH OF CHILDREN DANGER PELIGRO

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 PRODUCT USE Information Call 1-800-334-9745.

For MEDICAL And TRANSPORTATION Emergencies ONLY Call 24 Hours A Day 1-800-334-7577.

### STATEMENT OF PRACTICAL TREATMENT

IF ON SKIN: Wash with plenty of soap and water. Get medical attention.

IF SWALLOWED: Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available drink large quantities of water. Do not induce vomiting, contains petroleum distillates. Avoid alcohol. Call a physician or Poison Control Center. Do not give anything by mouth to an unconscious person.

IF IN EYES: Flush with water for at least 15 minutes. Get medical attention.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

ACCEPTED  
with COMMENTS  
In EPA Letter Dated  
APR 20 1994

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
is recommended, for the pesticide  
registered under EPA Reg. No.

264-531

### PRECAUTIONARY STATEMENTS

#### DANGER HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Harmful if swallowed, or absorbed through skin or inhaled. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Corrosive. Causes burns. Causes substantial, but temporary, eye injury.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear ~~clean cotton (or cloth) coveralls that cover all parts of the body except the head, hands and feet. The coveralls must be worn over a long-sleeved shirt and long pants~~ with clean nitrile, viton or barrier laminated gloves, a chemical-resistant apron when cleaning equipment, ~~goggles or face shield~~, chemical resistant headgear for overhead exposure and chemical resistant shoes, shoe coverings or boots plus socks.

FOOTWEAR

PROTECTIVE EYEWEAR

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.

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, hospitals, shopping areas, etc.)

ALL PERSONS HANDLING THE CONCENTRATE MUST OBSERVE THE FOLLOWING REQUIREMENTS.

redundant

~~Wear clean cotton (or cloth) coveralls that cover all parts of the body except the head, hands, and feet. The coveralls must be worn over a long sleeve shirt and long pants. Wear clean nitrile gloves, a chemical resistant apron; goggles or face shield, and chemical resistant shoes, shoe coverings, or boots.~~

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. ~~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.

#### 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. Then wash body thoroughly and put on clean clothing.

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## 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 favor drift from target areas. Do not contaminate water when 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 labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and 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 areas during the restricted entry interval (REI) of 12 hours.

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 ~~short~~-sleeved shirt and long pants, chemical-resistant gloves such as nitrile, viton or barrier laminate, chemical-resistant footwear plus socks, chemical-resistant headgear for overhead exposure and protective eyewear.

*incorrect*

## STORAGE AND DISPOSAL

### STORAGE

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

Do not store near fertilizers or seeds. Store in a cool, dry place above 32°F. Do not store this product under wet conditions.

### 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

Do not reuse outer bag. Dispose of outer bag in a sanitary landfill, by incineration or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

## GENERAL INFORMATION

BUCTRIL® GEL is formulated as gelatinous mixture of octanoic acid and heptanoic acid esters of bromoxynil containing the equivalent of 4.0 pounds of bromoxynil per gallon of formulated product. BUCTRIL® GEL is packaged in 2-1/2 pint water soluble bags. Each water soluble bag contains 1.25 lb of bromoxynil active ingredient.

BUCTRIL® GEL is a selective postemergence herbicide for control of important broadleaf weeds infesting corn (field and pop), sorghum (grain and forage), small grains (wheat, barley, oats, rye and triticale), alfalfa (seedling), flax, garlic, mint (established peppermint and spearmint), onions, Conservation Reserve Program Areas (CRP) and grass grown for seed or sod production. Optimum weed control is obtained when BUCTRIL® GEL is applied to actively growing weed seedlings. For best performance, BUCTRIL® GEL should only be applied to weeds growing under favorable climate and agronomic conditions. Weeds that are exhibiting clear signs of injury or stress (i.e. wilting, drooping of leaves, stunted growth, loss of leaves, or other symptoms) due to abnormally hot or cool weather, drought, flooding, plant pathogens, cultivation, insects, other pesticides, fertilizers or other factors may not be controlled by BUCTRIL® GEL. BUCTRIL® GEL is primarily a contact herbicide, therefore thorough coverage of the weed seedlings is essential for optimum control.

BUCTRIL® GEL 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® GEL 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.

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## MIXING, LOADING AND HANDLING INSTRUCTIONS

**GENERAL HANDLING INSTRUCTIONS:** Each BUCTRIL® GEL water soluble bag comes sealed in a clear plastic outer sleeve. Do not break the seal until the time of use. To use, open the end of the outer sleeve by tearing along the printed solid black line. Do not use a knife or other sharp object to break the seal. Once the outer protective sleeve is open, the water soluble bag inside can be dropped into the spray tank at the appropriate time without touching it.

**BUCTRIL® GEL ALONE:** Begin filling the spray tank with clean water. When bottom of spray tank is covered with water to a depth of 6-8 inches, add the recommended number of BUCTRIL® GEL soluble bags. Avoid dropping the soluble bags into the tank in such a way that the bags end up covering the recirculation and outlet holes. After adding bags, continue to fill tank with water. **Allow 3-4 minutes after dropping bags into the tank for bags to dissolve before starting agitation.** Tank should be at least 1/2 full when agitation is started. Continue adding water to tank to achieve the desired level. Maintain sufficient agitation to ensure a uniform spray mixture during application.

**BUCTRIL® GEL TANK-MIXTURES:** Begin filling the spray tank with clean water. When bottom of spray tank is covered with water to a depth of 6-8 inches, add the recommended number of BUCTRIL® GEL soluble bags. After adding bags, continue to fill tank with water. **Allow 3-4 minutes after dropping bags into the tank for bags to dissolve before starting agitation.** Tank should be at least 1/2 full when agitation is started. Add the recommended amount of wettable powder, soluble powder, flowable, EC or soluble liquid product to be tankmixed to the spray tank. Continue adding water to tank to achieve the desired level, while maintaining agitation.

**BUCTRIL® GEL TANK-MIXTURES WITH SPRAYABLE LIQUID FERTILIZERS OR SPRAY ADDITIVES:** Begin filling the spray tank with clean water. When bottom of spray tank is covered with water to a depth of 6-8 inches, add the recommended number of BUCTRIL® GEL soluble bags. After adding bags, continue to fill tank with water. **Allow 3-4 minutes after dropping bags into the tank for bags to dissolve before starting agitation.** Tank should be at least 1/2 full when agitation is started. Add the recommended amount of liquid fertilizer, surfactant or crop oil concentrate. Continue adding water to tank to achieve the desired level. If BUCTRIL® GEL is to be tankmixed with another dry or liquid pesticide formulation as well as liquid fertilizer or a spray adjuvant, add the liquid fertilizer or spray adjuvant to the tank last, then fill tank to desired level while maintaining agitation.

### HANDLING PRECAUTIONS

- Do not allow the empty outer sleeve or the tear-strip to fall into the spray tank as they are not water soluble and may clog the sprayer.
- Do not handle the inner bag with wet gloves as the bag will begin to dissolve on contact with even a small amount of water.
- Do not open the inner bags or attempt to remove the gel from them. The gel is not designed to be re-measured or subdivided.
- The PVA bag should not be opened and partial bag not used for a tankmix.
- The entire contents of the water soluble bag must be used.

### COMPATIBILITY OF INSECTICIDES WITH BUCTRIL® GEL

The following foliar insecticides are compatible with BUCTRIL® GEL Herbicide as tank mixtures.

INSECTICIDE COMMON NAME	TRADE NAME	FORMULATION
Diazinon	Various	Emulsifiable Concentrate
Dimethoate	Various	Emulsifiable Concentrate
Trichlorfon	Dylox <sup>2</sup>	Soluble Powder
Carbofuran	Furadan <sup>6</sup>	Flowable
Chlorpyrifos	Lorsban <sup>4</sup>	Emulsifiable Concentrate
Malathion	Various	Emulsifiable Concentrate
Oxydemeton-methyl	Metasystox-R <sup>2</sup>	Sprayable Concentrate
Permethrin	Pounce <sup>6</sup>	Emulsifiable Concentrate
Fenvalerate	Pydrin <sup>5</sup>	Emulsifiable Concentrate
Carbaryl	Sevin <sup>9</sup>	Sprayable wettable powder or Flowable
Demeton	Systox <sup>2</sup>	Emulsifiable Concentrate

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# APPLICATION PROCEDURES

BUCTRIL® GEL can be applied to registered use areas by ground or aerial equipment. The following provides recommended methods of application for each crop.

CROP	TYPE OF APPLICATION EQUIPMENT	
	GROUND	AERIAL
Small grains	X	X
Seedling alfalfa	X	X
Field and Popcorn	X	X
Sorghum	X	X
Flax	X	X
Garlic	X	X
Onion	X	
Mint	X	
Grass grown for seed or sod production	X	X

(X) indicates recommended application use

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### 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 minimum spray pressure of 30 psi at the nozzle tips are recommended. Other nozzle types that produce coarse spray droplets may not provide adequate coverage of the weeds to ensure optimum control. Raindrop nozzles are not recommended as weed control with BUCTRIL® GEL may be reduced. In general a minimum spray volume of 10 gallons per acre (GPA) is recommended for optimum spray coverage. A minimum of 5 GPA with a minimum spray pressure of 50 psi 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 speed of 10 mph is suggested if field conditions cause excessive boom movement during application and subsequent poor spray coverage. Ground applications made when dry, dusty field conditions exist may provide reduced weed control in wheel track areas.

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.

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. 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 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.

### 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® GEL applications may place target weeds under stress, resulting in erratic weed control. Whenever BUCTRIL® GEL 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.

## GENERAL WEED LIST

Postemergence application of BUCTRIL® GEL 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	( <i>Sonchus oleraceus</i> )
Black Nightshade	( <i>Solanum nigrum</i> )
Blue Mustard	( <i>Chorispora tenella</i> )
Bristly starbur	( <i>Acanthospermum hispidum</i> )
Coast Fiddleneck	( <i>Amsinckia intermedia</i> )
Common Cocklebur	( <i>Xanthium strumarium</i> )
Common Lambsquarters	( <i>Chenopodium album</i> )
Common Tarweed	( <i>Hemizonia congesta</i> )
Cutleaf Nightshade	( <i>Solanum triflorum</i> )
Eastern Black Nightshade	( <i>Solanum ptycanthum</i> )
Field Pennycress	( <i>Thlaspi arvense</i> )
Green Smartweed	( <i>Polygonum scabrum</i> )
Hairy Nightshade	( <i>Solanum sarachoides</i> )
Jimsonweed	( <i>Datura stramonium</i> )
Ladysthumb	( <i>Polygonum persicaria</i> )
Pennsylvania Smartweed	( <i>Polygonum strumarium</i> )
Pepperweed spp.	( <i>Lepidium spp.</i> )
Shepherdspurse	( <i>Capsella bursa-pastoris</i> )
Silverleaf Nightshade	( <i>Solanum elaeagnifolium</i> )
Tartary Buckwheat	( <i>Fagopyrum tataricum</i> )
<sup>1</sup> Sunflower	( <i>Helianthus annuus</i> )
Wild Buckwheat	( <i>Polygonum convolvulus</i> )

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

#### SUSCEPTIBLE BROADLEAF WEED SPECIES

Buffalobur	( <i>Solanum rostratum</i> )
Common Groundsel	( <i>Senecio vulgaris</i> )
Common ragweed	( <i>Ambrosia artemisiifolia</i> )
Corn Chamomile	( <i>Anthemis arvensis</i> )
Corn Gromwell	( <i>Lithospermum arvense</i> )
Cow Cockle	( <i>Saponaria vaccaria</i> )
Giant Ragweed	( <i>Ambrosia trifida</i> )
Hemp Sesbania	( <i>Sesbania exaltata</i> )
Ivyleaf morningglory	( <i>Ipomoea hederacea</i> )
Knawel	( <i>Scleranthus annuus</i> )
<sup>2</sup> Kochia	( <i>Kochia scoparia</i> )
London Rocket	( <i>Sisymbrium irio</i> )
Mayweed	( <i>Anthemis cotula</i> )
Prostrate Knotweed	( <i>Polygonum aviculare</i> )
Puncture Vine	( <i>Tribulus terrestris</i> )
<sup>2</sup> Redroot Pigweed	( <i>Amaranthus retroflexus</i> )
Russian Thistle	( <i>Salsola kali</i> )
<sup>2</sup> Spiny Pigweed	( <i>Amaranthus spinosus</i> )
Tall Morningglory	( <i>Ipomoea purpurea</i> )
<sup>2</sup> Tall Waterhemp	( <i>Amaranthus tuberculatus</i> )
Tumble mustard	( <i>Sisymbrium altissimum</i> )
Velvetleaf	( <i>Abutilon theophrasti</i> )
Venice Mallow	( <i>Hibiscus trionum</i> )
Wild Mustard	( <i>Sinapsis arvensis</i> )
Wild Radish	( <i>Raphanus raphanistrum</i> )

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

### WEED SUPPRESSION

BUCTRIL® GEL suppresses the growth of Canada thistle (*Cirsium arvense*) by burning down top growth. Regrowth may occur.

## CALIFORNIA REGISTRATIONS

Only the following recommendations referenced in this label are registered for use in California: seedling alfalfa, small grains (wheat, barley, oats, rye and triticale), flax, corn (post emergence application only), sorghum (post emergence application only), onions, garlic; chemigation in seedling alfalfa, small grains, onions and garlic; 2,4-D and MCPA tank mixtures in small grains; 2,4-D and atrazine tank mixtures in corn and sorghum; 2,4-DB tank mixtures in seedling alfalfa; grass for seed and sod production; and non-cropland and industrial sites. All applications must be made with a minimum spray volume of 10 GPA by ground or 5 GPA by air equipment.

## SPECIFIC CROP RECOMMENDATIONS

### CEREAL GRAIN CROPS

Corn (Field and Pop) and Sorghum (Grain and Forage)  
Small Grains (Wheat, Barley, Oats, Rye and Triticale)

### FORAGE, FIBER AND SPECIALITY CROPS

Alfalfa (Seedling)  
Flax  
Garlic  
Mint (Established Peppermint and Spearmint)  
Onions

### GRASS CROPS

Conservation Reserve Program Areas (CRP)  
Grass Grown for Seed or Sod Production

## BUCTRIL® GEL RATE RECOMMENDATIONS

BUCTRIL® GEL is a 4.0 lb per gallon bromoxynil formulation packaged in water-soluble bags. When determining how much BUCTRIL® GEL to use, it must be noted that BUCTRIL® GEL is twice as concentrated as BUCTRIL® Herbicide. In addition, BUCTRIL® GEL is pre-measured. Each BUCTRIL® GEL water-soluble bag contains 2 1/2 pints of the herbicide. That amount is equivalent to 5 pints of BUCTRIL® Herbicide.

To determine how much BUCTRIL® GEL to use, consult the application rate tables and recommendation charts for the crop to be sprayed. In those charts, the BUCTRIL® GEL use rates are given in pints/acre. Note that for any given recommendation, BUCTRIL® GEL rates are exactly half that of BUCTRIL® Herbicide rates. Once the BUCTRIL® GEL application rate per acre is selected, consult the following tables to determine how many bags to use when mixing the spray.

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## BUCTRIL® GEL APPLICATION RATE CHART

- Directions: 1) Select intended use rate in pints per acre.  
 2) Select numbers of acres to be treated from the rate column selected in Step 1.  
 3) Number of gel bags needed is listed in the first column.

BUCTRIL® GEL RATE	NUMBER OF ACRES TREATED			
	3/8 Pint/Acre	1/2 Pint/Acre	3/4 Pint/Acre	1 Pint/Acre
1	6 2/3	5	3 1/3	2 1/2
2	13 1/3	10	6 2/3	5
3	20	15	10	7 1/2
4	26 2/3	20	13 1/3	10
5	33 1/3	25	16 2/3	12 1/2
6	40	30	20	15
7	46 2/3	35	23 1/3	17 1/2
8	53 1/3	40	26 2/3	20
9	60	45	30	22 1/2
10	66 2/3	50	33 1/3	25
11	73 1/3	55	36 2/3	27 1/2
12	80	60	40	30
13	86 2/3	65	43 1/3	32 1/2
14	93 1/3	70	46 2/3	35
15	100	75	50	37 1/2
16	106 2/3	80	53 1/3	40

NOTE: BUCTRIL® GEL is twice as concentrated as BUCTRIL® Herbicide.

### CEREAL GRAIN CROPS

#### CORN (FIELD AND POP) AND SORGHUM (GRAIN AND FORAGE)

##### BUCTRIL® GEL RECOMMENDATIONS

PRODUCT	RATE	APPLICATION TIMING AND SPECIFIC COMMENTS	
		CROP	WEEDS
BUCTRIL® GEL	Preemergence 1/2 - 3/4 pint/A	Apply to corn or sorghum before planting until just prior to crop emergence.	See CORN AND SORGHUM APPLICATION RATE TABLE - BUCTRIL® GEL for list of weeds and corresponding stages of growth that are controlled by BUCTRIL® GEL at recommended rates of application. For control of additional weeds not listed in the rate table see the GENERAL WEED LIST.
	1/2 pint/A	Apply to corn after emergence but prior to tassel emergence.  Apply to sorghum after emergence but prior to the preboot stage (growth stage 4).	
	3/4 pint/A	Apply to corn between the 4 leaf stage and prior to tassel emergence.  Apply to sorghum between the 4 leaf stage and prior to preboot stage (growth stage 4).	

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**CORN AND SORGHUM APPLICATION RATE TABLE - BUCTRIL® GEL**

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WEED SPECIES <sup>1</sup> When determining leaf stage, count all leaves except cotyledonary leaves	1/2 Pint/A		3/4 Pints/A	
	Max. Leaf Stage	Max. Weed Height (inches)	Max. Leaf Stage	Max. Weed Height (inches)
Black Nightshade ( <i>Solanum nigrum</i> )	6	6	6	6
Buffalobur ( <i>Solanum rostratum</i> )	4	2	6	4
Common Cocklebur ( <i>Xanthium strumarium</i> )	6	8	8	10
Common Lambsquarters ( <i>Chenopodium album</i> )	-	6	-	8
Common Ragweed ( <i>Ambrosia artemisiifolia</i> )	6	4	8	6
Eastern Black Nightshade ( <i>Solanum ptycanthum</i> )	6	6	6	6
Giant Ragweed ( <i>Ambrosia trifida</i> )	6	4	6	6
Hemp Sesbania ( <i>Sesbania exaltata</i> )	-	-	4	4
Ivyleaf Morningglory ( <i>Ipomoea hederacea</i> )	3	3	4	4
Jimsonweed ( <i>Datura stramonium</i> )	4	4	6	6
Kochia ( <i>Kochia scoparia</i> )	-	-	-	2
Ladysthumb ( <i>Polygonum persicaria</i> )	4	4	6	6
Pennsylvania Smartweed ( <i>Polygonum strumarium</i> )	4	4	6	6
Redroot Pigweed <sup>3</sup> ( <i>Amaranthus retroflexus</i> )	-	-	4	2
Spiny Pigweed <sup>3</sup> ( <i>Amaranthus spinosus</i> )	-	-	4	2
Sunflower ( <i>Helianthus annuus</i> )	4	6	6	8
Tall Morningglory ( <i>Ipomoea purpurea</i> )	3	3	4	4
Tall Waterhemp <sup>3</sup> ( <i>Amaranthus tuberculatus</i> )	-	-	4	2
Velvetleaf ( <i>Abutilon theophrasti</i> )	4	3	6	5
Venice Mallow ( <i>Hibiscus trionum</i> )	-	-	4	2
Wild Buckwheat ( <i>Polygonum convolvulus</i> )	4	6	6	8
Wild Mustard ( <i>Sinapis arvensis</i> )	-	-	4	4
<b>WEEDS SUPPRESSED<sup>2</sup></b>				
Canada Thistle ( <i>Cirsium arvense</i> )		Not Recommended		8 inch to bud stage

<sup>1</sup> When determining leaf stage, count all leaves except cotyledonary leaves.

<sup>2</sup> BUCTRIL® GEL suppresses the growth by burning down of top growth. Regrowth may occur.

<sup>3</sup> Control of pigweeds in the high plains areas of Texas and Oklahoma may not be satisfactory with BUCTRIL® GEL Herbicide. Repeat applications may be necessary to achieve satisfactory control.

**BUCTRIL® GEL TANK MIXTURE RECOMMENDATIONS**

PRODUCT	RATE	APPLICATION TIMING AND SPECIFIC COMMENTS	
		CROP	WEEDS
BUCTRIL® GEL + atrazine	Preemergence 3/8-3/4 pint/A + 1/2-1 1/5 lb ai/A	Apply to corn or sorghum before planting until just prior to crop emergence.	See CORN AND SORGHUM APPLICATION RATE TABLE - BUCTRIL® GEL + ATRAZINE TANK MIXTURES for list of weeds and corresponding stages of growth that are controlled by BUCTRIL® GEL + Atrazine
	3/8-1/2 pint/A + 1/2-1 1/5 lb ai/A	Apply to corn after emergence but before corn is 12 inches tall.  Apply to sorghum after the 3 leaf stage but before sorghum is 12 inches tall.	tank mixtures at recommended rates of application. For control of additional weeds not listed in the rate table see the GENERAL WEED LIST.
	3/4 pint/A + 1/2-1 1/5 lb ai/A	Apply to corn between the 4 leaf stage and before corn is 12 inches tall.  Apply to sorghum between the 4 leaf stage and before sorghum is 12 inches tall.	

**ATRAZINE TANK MIX RESTRICTIONS**

Atrazine is a Restricted Use Herbicide due to ground water concerns, users must read and follow all precautionary statements and instructions on the atrazine label in order to minimize the potential for atrazine to reach ground water.

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**CORN AND SORGHUM APPLICATION RATE TABLE - BUCTRIL® GEL + ATRAZINE TANK MIXTURES**

WEED SPECIES <sup>1</sup>		BUCTRIL® GEL AND ATRAZINE RATE (TANK MIX)											
		3/8 Pint/A		3/8 Pint/A		1/2 Pint/A		1/2 Pint/A		3/4 Pint/A		3/4 Pint/A	
		1/2 lb ai/A		1 1/5 lb ai/A		1/2 lb ai/A		1 1/5 lb ai/A		1/2 lb ai/A		1 1/5 lb ai/A	
When determining leaf stage, count all leaves except cotyledonary leaves		MAX LEAF STAGE	MAX WEED HEIGHT	MAX LEAF STAGE	MAX WEED HEIGHT	MAX LEAF STAGE	MAX WEED HEIGHT	MAX LEAF STAGE	MAX WEED HEIGHT	MAX LEAF STAGE	MAX WEED HEIGHT	MAX LEAF STAGE	MAX WEED HEIGHT
Black Nightshade	( <i>Solanum nigrum</i> )	4	4	4	4	6	6	6	6	6	6	6	6
Buffalobur	( <i>Solanum rostratum</i> )	4	4	4	4	6	4	6	4	6	4	6	4
Burcucumber	( <i>Sicyos angulatus</i> )	4	4	4	4	4	4	6	6	6	6	6	6
Common Cocklebur	( <i>Xanthium strumarium</i> )	6	8	8	10	8	10	10	12	10	12	10	12
Common Lambequarters	( <i>Chenopodium album</i> )	-	6	-	10	-	10	-	12	-	12	-	12
Common Ragweed	( <i>Ambrosia artemisiifolia</i> )	6	4	8	6	8	6	8	6	8	6	8	6
Eastern Black Nightshade	( <i>Solanum pycnanthum</i> )	4	4	4	4	6	6	6	6	6	6	6	6
Entireleaf Morningglory	( <i>Ipomoea hederacea</i> )	-	-	4	3	4	3	4	3	4	3	4	3
Giant Ragweed	( <i>Ambrosia trifida</i> )	4	6	6	8	6	8	6	8	8	10	8	10
Hemp Sesbania	( <i>Sesbania exaltata</i> )	4	4	4	4	4	4	4	4	4	4	4	4
Ivyleaf Morningglory	( <i>Ipomoea hederacea</i> )	3	3	4	4	4	4	4	4	4	4	4	4
Jimsonweed	( <i>Datura stramonium</i> )	4	4	4	4	6	6	6	6	6	6	6	6
Kochia	( <i>Kochia scoparia</i> )	-	2	-	2	-	2	-	2	-	4	-	4
Ladysthumb	( <i>Polygonum persicaria</i> )	4	4	4	4	6	6	8	8	8	8	8	8
Palmleaf Morningglory	( <i>Ipomoea wrightii</i> )	-	-	4	3	4	3	4	3	4	3	4	3
Pennsylvania Smartweed	( <i>Polygonum strumarium</i> )	4	4	4	4	6	6	8	8	8	8	8	8
Prickly Sida	( <i>Sida spinosa</i> )	-	-	6	2	4	1	6	2	4	1	6	2
Puncturevine	( <i>Tribulus terrestris</i> )	-	-	-	-	-	-	6	4	6	4	6	4
Purple Morningglory	( <i>Ipomoea muricata</i> )	-	-	2	3	2	3	2	3	2	3	2	3
Redroot Pigweed <sup>3</sup>	( <i>Amaranthus retroflexus</i> )	4	2	8	6	6	4	8	6	6	4	8	6
Smallflower Morningglory	( <i>Jacquemontia tamnifolia</i> )	-	-	4	3	4	3	4	3	4	3	4	3
Smooth Pigweed <sup>3</sup>	( <i>Amaranthus hybridus</i> )	4	2	6	4	4	2	6	4	6	4	6	4
Spiny Pigweed <sup>3</sup>	( <i>Amaranthus spinosus</i> )	4	2	8	6	6	4	8	6	6	4	8	6
Sunflower	( <i>Helianthus annuus</i> )	6	8	8	10	8	10	10	12	10	12	10	12
Tall Morningglory	( <i>Ipomoea purpurea</i> )	3	3	4	4	4	4	4	4	4	4	4	4
Tall Waterhemp <sup>3</sup>	( <i>Amaranthus tuberculatus</i> )	4	2	8	6	6	4	8	6	6	4	8	6
Toothed Spurge	( <i>Euphorbia dentata</i> )	2	2	2	2	4	4	4	4	4	4	4	4
Velvetleaf	( <i>Abutilon theophrasti</i> )	4	3	4	3	6	5	6	5	8	6	8	6
Venice Mallow	( <i>Hibiscus trionum</i> )	4	2	4	2	4	2	4	2	4	2	4	2
Wild Buckwheat	( <i>Polygonum convolvulus</i> )	6	8	8	10	8	10	10	12	10	12	10	12
Wild Mustard	( <i>Sinapis arvensis</i> )	4	4	4	4	4	4	4	4	4	4	4	4

WEEDS SUPPRESSED <sup>2</sup>		Not Recommended		Not Recommended		8"-bud		8"-bud		8"-bud		8"-bud	
Canada thistle	( <i>Cirsium arvense</i> )												

- When determining leaf stage, count all leaves except cotyledonary leaves.
- Selected rates of BUCTRIL® GEL + atrazine tank mixtures suppress the growth by burning down of top growth. Regrowth may occur.
- If pigweeds (*Amaranthus sp.*) present in the field to be treated have been identified as triazine resistant biotypes, use BUCTRIL® GEL at 3/4 pint/A in a tank mixture with atrazine at 1/2 or 1 1/5 lb ai/A. Applications should be made when pigweeds do not exceed the 4-leaf stage and 2 inches in height. Control of pigweeds in the high plains areas of Texas and Oklahoma may not be satisfactory with BUCTRIL® GEL + atrazine tank mixtures. Repeat applications may be necessary to achieve satisfactory control.

**ATRAZINE CONVERSION TABLE<sup>1/</sup>**

ATRAZINE FORMULATION	ATRAZINE RATE POUNDS OF ACTIVE INGREDIENT PER ACRE	ATRAZINE FORMULATION RATE PER ACRE
Atrazine 4L	1/2	1 Pint
	1 1/5	2 2/5 Pints
Atrazine 80WP	1/2	5/8 Pound
	1 1/5	1 1/2 Pounds
Aatrex® Nine-O <sup>12</sup>	1/2	3/5 Pound
	1 1/5	1 1/3 Pounds

<sup>1/</sup>Follow all precautions and limitations on the labels of products used in tank mixture with BUCTRIL® GEL.

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**SPECIAL USE DIRECTIONS FOR OTHER WEED PROBLEMS IN CORN AND SORGHUM**

**Large Common Cocklebur, Common Lambsquarters and Sunflower**

For control of common cocklebur and common lambsquarters up to 14 inches in height and sunflower up to 18 inches in height, use a postemergence application of BUCTRIL® C:EL at 1/2 pint/A. Make a second application of BUCTRIL® GEL at the same rate 7 to 10 days later.

**Large Velvetleaf**

For control of velvetleaf up to 14 inches in height, use postemergence application of BUCTRIL® GEL at 3/4 pint/A or BUCTRIL® GEL + atrazine tank mixture at 1 pint/A + 1 1/5 lb ai/A. Make a second application of BUCTRIL® GEL at 1/2 pint/A 7 to 10 days later.

**Canada Thistle Management**

For effective management of Canada thistle, the following BUCTRIL® GEL treatments should be applied to thistle from 8" to bud stage for in-season burndown of top growth:

- BUCTRIL® GEL at 3/4 pint/A
- BUCTRIL® GEL at 3/4 pint/A + atrazine at 1/2 - 1 1/5 lbs ai/A
- BUCTRIL® GEL at 3/4 pint/A + Banvel at 1/4 - 1/2 pint/A
- BUCTRIL® GEL at 3/4 pint/A + atrazine at 1/2 - 1 1/5 lbs ai/A + Banvel at 1/8 - 1/4 pint/A
- BUCTRIL® GEL at 3/4 pint/A + 2,4-D at 1/8 - 1/4 lb ai/A
- BUCTRIL® GEL at 3/4 pint/A + atrazine at 1/2 - 1 1/5 lbs ai/A + 2,4-D at 1/8 - 1/4 lb ai/A

If possible follow with cultivation 14-21 days after treatment. In the fall apply 2,4-D (such as Weedone<sup>9</sup> 638), Banvel<sup>10</sup> or Roundup<sup>8</sup> at recommended rates to Canada thistle 4-8 inches tall prior to killing frost. Follow with a similar control program in next years rotational crop.

**ADDITIONAL BUCTRIL® GEL TANK MIXTURE RECOMMENDATIONS**

PRODUCT	RATE	APPLICATION TIMING AND SPECIFIC COMMENTS	
		CROP	WEEDS
BUCTRIL® GEL + Banvel <sup>10</sup>	1/2 pint/A + 1/8-1/2 pint/A	Apply to field corn after emergence but before corn is 36 inches tall or 15 days before tassel emergence, whichever comes first.  Apply to sorghum after the 3 leaf stage but before sorghum is 15 inches tall. Do not apply in the boot stage. Use drop nozzles if crop is taller than 8 inches.	All weeds controlled by BUCTRIL® GEL at recommended rates of application plus improved control of pigweed. For Canada thistle burndown and field bindweed suppression up to the mid-bloom stage, use 1/4 - 1/2 pint/A of Banvel with BUCTRIL® GEL.
	3/4 pint/A + 1/8-1/2 pint/A	Apply to field corn between the 4 leaf stage and before corn is 36 inches tall or 15 days before tassel emergence, whichever comes first.  Apply to sorghum between the 4 leaf stage and before sorghum is 15 inches tall. Do not apply in the boot stage. Use drop nozzles if crop is taller than 8 inches.	
BUCTRIL® GEL + atrazine + Banvel <sup>10</sup>	1/2 pint/A + 1/2-1 1/5 lb ai/A + 1/8-1/4 pint/A	Apply to field corn after emergence but before corn is 12 inches tall.  Apply to sorghum after the 3 leaf stage but before sorghum is 12 inches tall. Do not apply in the boot stage. Use drop nozzles if crop is taller than 8 inches.	All weeds controlled by BUCTRIL® GEL + atrazine tank mixtures at recommended rates of application plus improved control of pigweed. For field bindweed suppression, use 1/4 pint/A of Banvel with BUCTRIL® GEL.
	3/4 pint/A + 1/2-1 1/5 lb ai/A + 1/8-1/4 pint/A	Apply to field corn between the 4 leaf stage and before corn is 12 inches tall.  Apply to sorghum between the 4 leaf stage and before sorghum is 12 inches tall. Do not apply in the boot stage. Use drop nozzles if crop is taller than 8 inches.	

PRODUCT	RATE	APPLICATION TIMING AND SPECIFIC COMMENTS	
		CROP	WEEDS
BUCTRIL® GEL + 2,4-D (such as WEEDONE® and WEEDAR® Brand)	1/2 pint/A + 1/16-1/4 lb ai/A	Apply to field corn after emergence but prior to tassel emergence. Use drop nozzles if crop is taller than 8 inches.  Apply to sorghum after emergence but before sorghum is 15 inches tall. Do not apply in the boot stage. Use drop nozzles if crop is taller than 8 inches.	All weeds controlled by BUCTRIL® GEL at recommended rates plus improved pigweed and kochia control. For Canada thistle burndown and field bindweed suppression up to the mid-bloom stage, use 1/8 - 1/4 lb ai/A of 2,4-D with BUCTRIL® GEL.
	3/4 pint/A + 1/16-1/4 lb ai/A	Apply to field corn between the 4 leaf stage and prior to tassel emergence. Use drop nozzles if crop is taller than 8 inches.  Apply to sorghum between the 4 leaf stage and before sorghum is 15 inches tall. Do not apply in the boot stage. Use drop nozzles if crop is taller than 8 inches.	
BUCTRIL® GEL + atrazine + 2,4-D (such as WEEDONE® and WEEDAR® Brand)	1/2 pint/A + 1/2-1 1/5 lb ai/A + 1/16 -1/4 lb ai/A	Apply to field corn after emergence but before the corn is 12 inches tall. Use drop nozzles if crop is taller than 8 inches.  Apply to sorghum after the 3 leaf stage but before sorghum is 12 inches tall. Do not apply in the boot stage. Use drop nozzles if crop is taller than 8 inches.	All weeds controlled by BUCTRIL® GEL + atrazine tank mixtures at recommended rates of application plus improved devils claw control. For Canada thistle burndown and field bindweed suppression, use 1/8 - 1/4 lb ai/A of 2,4-D with BUCTRIL® GEL.
	3/4 pint/A + 1/2-1 1/5 lb ai/A + 1/16-1/4 lb ai/A	Apply to field corn between the 4 leaf stage and before the corn is 12 inches tall. Use drop nozzles if crop is taller than 8 inches.  Apply to sorghum between the 4 leaf stage and before sorghum is 12 inches tall. Do not apply in the boot stage. Use drop nozzles if crop is taller than 8 inches.	
BUCTRIL® GEL + Accent <sup>5</sup> + non-ionic surfactant	1/2 pint/A + 2/3 oz/A + 1 qt/100 gal of water (0.25% v/v)	Apply to field corn preemergence or postemergence up to 36" tall corn. Use drop nozzles only when corn is 24 - 36 inches tall.	All broadleaf weeds controlled by BUCTRIL® GEL at 1/2 or 3/4 p/A plus grasses and broadleaves controlled by Accent. For optimum weed control, treat when broadleaves and grasses are in the recommended growth stage or size. Follow the weed size guideline on the BUCTRIL® GEL or Accent labels that are least restrictive.
	3/4 pint/A + 2/3 oz/A + 1 qt/100 gal of water (0.25% v/v)	Apply to field corn postemergence after the 4 leaf stage up to 36 inches in height. Use drop nozzles only when corn is 24 - 36 inches tall.	

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CORN (FIELD AND POP) AND SORGHUM (GRAIN AND FORAGE)

ADDITIONAL BUCTRIL® GEL TANK MIXTURE RECOMMENDATIONS (continued)

		APPLICATION TIMING AND SPECIFIC COMMENTS	
PRODUCT	RATE	CROP	WEEDS
BUCTRIL® GEL + atrazine + Accent <sup>5</sup> + non-ionic surfactant	1/2 pint/A + 1/2 - 1 1/5 lb ai/A + 2/3 oz/A + 1 qt/100 gal of water (0.25% v/v)	Apply to field corn preemergence through postemergence but before the corn is 12 inches tall.	All broadleaf weeds controlled by BUCTRIL® GEL + atrazine plus grasses and broadleaves controlled by Accent. For optimum weed control, treat when broadleaves and grasses are in the recommended growth stage or size. Follow the weed size guideline on the BUCTRIL® GEL or Accent labels that are least restrictive.
	3/4 pint/A + 1/2 - 1 1/5 lb ai/A + 2/3 oz/A + 1 qt/100 gal of water (0.25% v/v)	Apply to field corn between the 4 leaf stage of crop growth but before the corn is 12 inches tall.	
BUCTRIL® GEL + Beacon <sup>12</sup> + non-ionic surfactant	1/2 pint/A + 0.38-0.76 oz/A <sup>1</sup> (1-2 packets/4 acres) + 1 qt/100 gal of water (0.25% v/v)	Apply to field corn from 4 to 20 inches in height.  <sup>1</sup> The 0.38 oz/A (1 packet/4A) rate of Beacon is 1/2 of a split application treatment program. BUCTRIL® GEL tank mixture may be used in either half of the split application.	All broadleaf weeds controlled by BUCTRIL® GEL at 1/2 pt/A plus grasses and broadleaves controlled by Beacon. For optimum weed control treat when broadleaves and grasses are in the recommended growth stage or size. Follow the weed size guidelines on the BUCTRIL® GEL or Beacon labels that are least restrictive.
BUCTRIL® GEL + Stinger <sup>4</sup>	1/2 pint/A + 1/3-2/3 pint/A	Apply to field corn after emergence up to 24 inches in height.	All weeds controlled by BUCTRIL® GEL at recommended rates of application plus improved Canada thistle burndown. For optimum performance apply to Canada thistle at least 4 inches in diameter or height but before bud stage.
	3/4 pint/A + 1/3 - 2/3 pint/A	Apply to field corn from 4 leaf stage up to 24 inches in height.	
BUCTRIL® GEL + Atrazine + Stinger <sup>4</sup>	1/2 pint/A + 1/2-1 1/5 lb ai/A + 1/3-2/3 pint/A	Apply to field corn after emergence but before corn is 12 inches tall.	All weeds controlled by BUCTRIL® GEL + atrazine tank mixtures at recommended rates of application plus improved Canada thistle burndown. For optimum performance apply to Canada thistle at least 4 inches in diameter or height but before bud stage.
	3/4 pint/A + 1/2 - 1 1/5 lb ai/A + 1/3 - 2/3 pint/A	Apply to field corn from 4 leaf stage but before corn is 12 inches tall.	

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CORN (FIELD AND POP) AND SORGHUM (GRAIN AND FORAGE)

ADDITIONAL BUCTRIL® GEL TANK MIXTURE RECOMMENDATIONS (continued)

		APPLICATION TIMING AND SPECIFIC COMMENTS	
PRODUCT	RATE	CROP	WEEDS
BUCTRIL® GEL + Bladex 80W <sup>5</sup> or Bladex 90DF <sup>5</sup>	1/2 pint/A + 1 1/2-2 1/2 lb/A <sup>1</sup> or 1 3/10-2 1/5 lb/A <sup>1</sup>	Apply to field corn between the 3 leaf stage and before the fifth leaf is visible in the whorl. Tank mixture with Bladex or Extrazine may cause browning, yellowing or stunting of field corn. Do not apply BUCTRIL® GEL in tank mixture with Bladex or Extrazine under cold, wet weather conditions or to weather, storm, disease or insect-stressed field corn. Do not add adjuvants such as surfactants or crop oils or fertilizer solutions as excessive crop injury may occur. Do not apply to popcorn or corn grown for seed.	All weeds controlled by BUCTRIL® GEL at 3/4 pint/A plus suppression or control of foxtails and other annual grasses that do not exceed 1 1/2 inches in height.
BUCTRIL® GEL + Extrazine II DF <sup>5</sup> or Extrazine 90DF <sup>5</sup>	1/2 pint/A + 1 3/10-2 1/5 lb/A <sup>1</sup>		<sup>1</sup> Determine the Bladex or Extrazine use rate by consulting the tank mixture product use directions for soil texture, organic matter and previous herbicide application to that crop.
BUCTRIL® GEL + Roundup <sup>8</sup>	Preemergence 1/2-3/4 pint/A + 1/2-3 pints/A	Apply to corn or sorghum before planting time up until just prior to crop emergence.	All weeds controlled by BUCTRIL® GEL at recommended rates of application plus control of certain grass and perennial weeds. Refer to Roundup label for rate to use depending on weeds present at time of application.

RESTRICTIONS AND PRECAUTIONS: Corn (Field and Pop) and Sorghum (Grain and Forage)

- BUCTRIL® GEL does not control grasses. Therefore, it is recommended that a suitable grass control program be used to provide any required grass control.
- Addition of a spray additive or mixture with liquid fertilizers may cause excessive crop leafburn.
- Seed corn producers should consult the respective seed corn company regarding tolerance of certain seed production inbred lines to BUCTRIL® GEL.
- Do not apply BUCTRIL® GEL to postemergence to seed corn inbreds or popcorn prior to the 3 leaf stage of crop growth as excessive crop leaf burn may occur.
- Do not plant rotational crops until the following season.
- Do not cut crop for feed, fodder or graze within 30 days of application.
- The total cumulative rate should not exceed 1 1/2 pints/A per season.
- Postemergence application prior to the 3 leaf growth stage of corn or sorghum may result in increased crop leaf burn.
- Tank mixtures with Accent/nonionic surfactant or Beacon/nonionic surfactant may result in increased initial crop leaf burn. Use of crop oil concentrate, nitrogen fertilizer solution or other adjuvants in BUCTRIL® GEL + Accent or BUCTRIL® GEL + Beacon tank mixtures may result in a further increase in crop leaf burn.
- Special care should be taken when using BUCTRIL® GEL and Banvel or 2,4-D tank mixtures to avoid off target drift to sensitive crops.
- Tank mixtures with 2,4-D or Banvel can cause stalk brittleness to field corn or sorghum. Winds or cultivation may cause breakage while crop is brittle.
- Follow all restrictions and precautions on the label of all products used in tank mixture with BUCTRIL® GEL.

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## SMALL GRAINS (WHEAT, BARLEY, OATS, RYE AND TRITICALE)

### BUCTRIL® GEL RECOMMENDATIONS

PRODUCT	RATE	APPLICATION TIMING AND SPECIFIC COMMENTS	
		CROP	WEEDS
BUCTRIL® GEL	3/4 pint/A	Fall seeded wheat, barley, rye and triticale throughout the United States and spring seeded wheat, barley and oats in Idaho, Oregon, Washington, Colorado, Wyoming and Montana. Apply to wheat, barley, oats, rye and triticale from emergence to the boot stage.	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 inch in diameter.
	1 pint/A	Fall seeded wheat, barley, rye and triticale throughout the United States and spring seeded wheat, barley and oats in Idaho, Oregon, Washington, Colorado, Wyoming and Montana. Apply to wheat, barley, oats, rye and triticale from emergence to the boot stage.	Apply to MOST SUSCEPTIBLE and SUSCEPTIBLE weeds (see GENERAL WEED LIST) up to the 4 leaf stage or 2 inches in height, whichever comes first. If weed forms rosette apply before weeds exceed 1 inch in diameter.
	1/2-3/4 pint/A	Spring seeded wheat, barley and oats except Idaho, Oregon, Washington, Colorado, Wyoming and Montana. Apply to wheat, barley and oats from emergence to the boot stage.	Apply 1/2 pint/A to MOST SUSCEPTIBLE and 3/4 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® GEL at 3/4 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.
	Small Grains underseeded with Alfalfa 1/2-3/4 pint/A	Apply to small grains (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 trifoliolate leaves. Do not apply BUCTRIL® if temperatures are expected to exceed 70° F at or 3 days following application or unacceptable alfalfa injury may occur.	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.

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## BUCTRIL® GEL TANK MIXTURE RECOMMENDATIONS

PRODUCT	RATE	APPLICATION TIMING AND SPECIFIC COMMENTS	
		CROPS	WEEDS
BUCTRIL® GEL + 2,4-D (such as WEEDONE <sup>9</sup> or WEEDAR <sup>9</sup> brand)	1/2-1 pint/A + 1/4-1/2 lb ai/A	Apply to wheat, barley, oats and rye from the fully tillered but before jointing stage.	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.
	3/8-1/2 pint/A + 1/4-1/2 lb ai/A	Apply to wheat and barley in Minnesota, North and South Dakota from the fully tillered but before jointing stage.	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.
BUCTRIL® GEL + MCPA (such as RHONOX <sup>9</sup> or RHOMENE <sup>9</sup> )	1/2-1 pint/A + 1/4-1/2 lb ai/A	Apply to wheat, barley, oats and rye from the 4 leaf stage but before jointing.	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.
BUCTRIL® GEL + Banvel <sup>10</sup>	1/2-3/4 pint/A + 1/8-1/4 pint/A	Fall seeded wheat apply prior to the jointing stage. Spring seeded wheat apply up to the 5 leaf stage.	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.
BUCTRIL® GEL + Glean <sup>5</sup> + nonionic surfactant	3/8-3/4 pint/A + 1/6-1/3 oz/A + 1 qt/100 gal of water	Apply to wheat and barley from the 2 leaf stage but before boot stage. Refer to Glean label for crop rotation and other restrictions.	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.
BUCTRIL® GEL + Ally <sup>5</sup> + nonionic surfactant	3/8-3/4 pint/A + 1/10 oz/A + 1 qt/100 gal of water	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.	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.
BUCTRIL® GEL + Finesse <sup>5</sup> + nonionic surfactant	3/8-3/4 pint/A + 1/6-1/3 oz/A + 1 qt/100 gal of water	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.	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.
BUCTRIL® GEL + Amber <sup>12</sup> + nonionic surfactant	3/8-3/4 pint/A + 0.28 - 0.56 oz/A + 0.25 - 0.5% v/v	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.	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.

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PRODUCT	RATE	APPLICATION TIMING AND SPECIFIC COMMENTS	
		CROP	WEEDS
BUCTRIL® GEL + Express <sup>5</sup> + nonionic surfactant	1/2-3/4 pint/A + 1/6-1/3 oz/A + 1 qt/100 gal of water	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.	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 and up to Canada thistle 4 to 8 inches tall with 2 to 6 inches of new growth.
	3/8-3/4 pint/A + 1/6-1/3 oz/A + 1 qt/100 gal of water	Spring wheat and barley. 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.	
BUCTRIL® GEL + Harmony Extra <sup>5</sup> + nonionic surfactant	3/8-3/4 pint/A + 3/10 oz/A + 1 qt/100 gal of water	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.	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.
		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.	
BUCTRIL® GEL + Curtail <sup>4</sup> or Curtail M <sup>4</sup>	1/2-3/4 pint/A + 2 pints/A	Apply to wheat and barley after the crop begins to tiller up to the 1st node detectable.	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.
BUCTRIL® GEL + metribuzin (Sencor <sup>2</sup> or Lexone <sup>5</sup> )	1/2-5/8 pint/A + 1/8-1/4 lb ai/A	Winter wheat in Idaho, Montana, Oregon and Washington. Apply in spring after growth has started and secondary roots with a minimum of 3 to 4 tillers have been established but before boot stage. Avoid application when crop has experienced winter kill, frost damage, disease or drought.	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.
BUCTRIL® GEL + diuron	1/2 pint/A + 1/10 lb ai/A	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.	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.
BUCTRIL® GEL + Tiller <sup>7</sup>	1/2 pint/A + 1 pint/A	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.	In addition to broadleaf weeds controlled by BUCTRIL GEL, this tankmix will control green foxtail from the 2-leaf to 2-tiller stage of growth.

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		APPLICATION TIMING AND SPECIFIC COMMENTS	
PRODUCT	RATE	CROP	WEEDS
BUCTRIL® GEL + Hoelon <sup>7</sup>	1/2-3/4 pint/A + 2 - 2 2/3 pints/A	Spring Barley. After emergence but before jointing. Avoid using this tank mixture on barley exposed to cold (lower than 40 degrees F) and/or prolonged wet weather conditions as crop injury may result.	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.
	1/2-3/4 pint/A + 2 - 2 2/3 pints/A	Winter wheat and spring wheat. After emergence but before jointing.	This tankmix will provide wild oat, green foxtail and annual ryegrass control in addition to broadleaves. Apply to grassed 1-4 leaf stage and broadleaves no larger than 4 leaf stage or rosettes of 1.5 inches in diameter.
BUCTRIL® GEL + Avenge <sup>1</sup>	1/2-1 pint/A + 2 1/2-4 pints/A	Winter Wheat. Four leaf to tillering stage. Refer to Avenge label for varietal and other restrictions.	This tankmix will provide wild oat control in addition to broadleaves. Apply to wild oats in the 3-5 leaf stage and broadleaves that do not exceed the 4 leaf stage or rosettes of 1.5 inches in diameter. Avenge use rates per acre are 2.5 pints (1-10 oats per sq. ft.), 3 pints (11-25 oats per sq.ft.) or 4 pints (more than 25 oats per sq. ft.).
		Spring Wheat. Five to 6 leaf stage. Refer to Avenge label for varietal and other restrictions.	
		Barley. Two to 7 leaf stage.	

**RESTRICTIONS AND PRECAUTIONS: Small Grains (Wheat, Barley, Oats, Rye and Triticale)**

- Do not graze treated fields within 30 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 of additional restrictions and precautions.
- Do not plant rotational crops until the following season.

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# FORAGE, FIBER AND SPECIALITY CROPS

## ALFALFA (SEEDLING)

### BUCTRIL® GEL RECOMMENDATIONS

PRODUCT	RATE	APPLICATION TIMING AND SPECIFIC COMMENTS	
		CROP	WEEDS
BUCTRIL® GEL	1/2-3/4 pint/A	<p>Apply in the fall or spring to seedling alfalfa when the majority of the field has a minimum of 4 trifoliolate leaves. When alfalfa stand is uneven and conditions favor leafburn, unacceptable crop injury may occur to alfalfa in the 2 trifoliolate or smaller stage of growth. In the states of California, Washington, Oregon, Idaho, Montana, Wyoming, Colorado, Utah, Nevada, Arizona, New Mexico, and the western halves of North Dakota, South Dakota, Nebraska and Kansas, BUCTRIL® GEL application made when temperatures are expected to exceed 80°F at and 3 days following application can result in unacceptable crop injury. In the remaining states BUCTRIL® GEL application made when temperatures are expected to exceed 70°F at and 3 days following application can result in unacceptable crop injury.</p>	<p>Apply 1/2 pint/A to MOST SUSCEPTIBLE broadleaf weeds and 3/4 pint/A for SUSCEPTIBLE broadleaf weeds (See general weed list) when weeds do not exceed 4 leaf stage, 2 inches in height or 1 inch in diameter, whichever comes first. BUCTRIL® GEL will not adequately control over-wintered pennycress, henbit and mustards.</p>

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**BUCTRIL® GEL TANK MIXTURE RECOMMENDATIONS**

PRODUCT	RATE	APPLICATION TIMING AND SPECIFIC COMMENTS	
		CROP	WEEDS
BUCTRIL® GEL + BUTYRAC® 200 <sup>9</sup> (2,4-DB)	1/2 pint/A + 1 quart/A	Apply in the fall or spring to seedling alfalfa when the majority of the field has a minimum of 4 trifoliolate leaves. When alfalfa stand is uneven and conditions favor leafburn, unacceptable crop injury may occur to alfalfa in the 2 trifoliolate or smaller stage of growth. In the states of California, Washington, Oregon, Idaho, Montana, Wyoming, Colorado, Utah, Nevada, Arizona, New Mexico, and the western halves of North Dakota, South Dakota, Nebraska and Kansas, BUCTRIL® GEL application made when temperatures are expected to exceed 80°F at and 3 days following application can result in unacceptable crop injury. In the remaining states BUCTRIL® GEL application made when temperatures are expected to exceed 70°F at and 3 days following application can result in unacceptable crop injury.	This tankmix improve control of pigweed(sp), kochia, and tansy mustard. Apply when weeds do not exceed the 4 leaf stage, 2 inches in height or 1 inch in diameter, whichever comes first. BUCTRIL® GEL + BUTYRAC 200 tank mixtures will not adequately control over-wintered pennycress, henbit and mustards.

**RESTRICTIONS AND PRECAUTIONS: Alfalfa (Seedling)**

- Crop leafburn can occur following BUCTRIL® GEL application. Warm, humid conditions may enhance leaf burn. New crop growth will not be affected. Alfalfa yield should not be reduced although total biomass tonnage may decrease compared to a weedy field due to weed removal.
- Do not apply when 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 unless specified in the use directions because increased alfalfa injury will occur.
- Do not cut for feed or graze spring treated alfalfa within 30 days following treatment.
- Do not cut for feed or graze fall or winter treated alfalfa until spring, at least 60 days following treatment.
- The total cumulative rate of BUCTRIL® GEL should not exceed 1 pint/A per season.
- The use of Eptam<sup>11</sup> preemergence may enhance crop leaf burn from postemergence application of BUCTRIL® GEL and should be considered prior to using BUCTRIL® GEL.
- Follow all restrictions and precautions on the tank mixture product label when a BUCTRIL® GEL tank mixture is used.
- Tank mixture with 2,4-DB may result in unacceptable crop leaf burn especially under warm, humid weather conditions.

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**FLAX (*Linum usitatissimum* only)**

**BUCTRIL® GEL RECOMMENDATIONS**

PRODUCT	RATE	APPLICATION TIMING AND SPECIFIC COMMENTS	
		CROP	WEEDS
BUCTRIL® GEL	1/2 pint/A	Apply to flax that is 2 to 8 inches in height. Do not apply BUCTRIL® GEL to flax during or after the bud stage.	Apply to MOST SUSCEPTIBLE weeds that do not exceed the 4 leaf stage, 2 inches in height or 1 inch in diameter, whichever comes first.

**BUCTRIL® GEL TANK MIXTURE RECOMMENDATIONS**

PRODUCT	RATE	APPLICATION TIMING AND SPECIFIC COMMENTS	
		CROP	WEEDS
BUCTRIL® GEL + Hoelon	1/2 pint/A + 2-2 2/3 pints/A	Apply to flax that is 2 to 8 inches in height. Do not apply BUCTRIL® GEL to flax during or after the bud stage.	This tankmix will control broadleaf weeds plus wild oats, green foxtail and annual ryegrass. Apply to grasses in the 1-3 leaf stage and broadleaves no larger than 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 BUCTRIL® GEL application to flax grown on high organic, peat type soils.
- Application under high humidity conditions can injure flax.
- Do not apply BUCTRIL® GEL with crop oil concentrate, surfactants or nitrogen solutions.
- Follow all precautions, directions and restrictions on the Hoelon label when using in tank mixture with BUCTRIL® GEL.
- Do not use on ornamental flax.

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# GARLIC

## BUCTRIL® GEL RECOMMENDATIONS

PRODUCT	RATE	APPLICATION TIMING AND SPECIFIC COMMENTS	
		CROP	WEEDS
BUCTRIL® GEL	3/4-1 pint/A	Apply to garlic after emergence but before 12 inches in height.	Apply to MOST SUSCEPTIBLE and SUSCEPTIBLE broadleaf weeds up to the 4 leaf stage, 2 inches in height or 1 inch in diameter, whichever comes first.

### PRECAUTIONS AND RESTRICTIONS: Garlic

- Use a minimum of 20 gallons per acre for ground application.
- BUCTRIL® GEL can be applied through automated sprinkler irrigation application.
- Do not harvest within 112 days following treatment.

# MINT

## ESTABLISHED PEPPERMINT AND SPEARMINT ONLY

### BUCTRIL® GEL RECOMMENDATIONS

PRODUCT	RATE	APPLICATION TIMING AND SPECIFIC COMMENTS	
		CROP	WEEDS
BUCTRIL® GEL	1/2-3/4 pint/A	Apply to dormant or actively growing established peppermint or spearmint which has been harvested for at least one year prior to treatment.	Apply to MOST SUSCEPTIBLE and 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: Mint

- Application made to mint when temperatures are expected to exceed 70°F at or 5 days following application may result in unacceptable crop injury. This injury is more likely to occur following BUCTRIL® GEL application in the spring.
- Do not apply to mint growing under adverse conditions including diseases, insects, nematodes, high salt content soil, drought, excessive moisture, winter damage or other environmental stress.
- Application of BUCTRIL® GEL to mint that has been previously treated with Sinbar<sup>5</sup> Herbicide within two weeks may result in unacceptable crop injury.
- Do not use in spring on newly established mint. Fall applications to spring planted mint should be acceptable if the crop is well established.
- BUCTRIL® GEL can cause temporary stunting and discoloration of the mint particularly from the spring application. However the injury symptoms are only temporary and have not caused yield reduction.
- Use of BUCTRIL® GEL in combination with other products may increase temporary stunting and discoloration.
- Do not harvest within 70 days following treatment.
- Do not apply more than 3.0 pints of BUCTRIL® GEL total product per acre to mint in a single growing season.

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# ONIONS

## BUCTRIL® GEL RECOMMENDATIONS

PRODUCT	RATE	APPLICATION TIMING AND SPECIFIC COMMENTS	
		CROP	WEEDS
BUCTRIL® GEL	Preplant/Preemergence 1/2-3/4 pint/A	Apply to onions at least 3 to 4 days prior to emergence. Rainfall or irrigation within 2 days following preemergence applications or 3 days prior to crop emergence may result in unacceptable crop injury.	Apply BUCTRIL® GEL at 1/2 pint/A to control MOST SUSCEPTIBLE weeds and 3/4 pint/A for SUSCEPTIBLE weeds. Weeds should not exceed the 4 leaf stage, 2 inches in height or 1 inch in diameter, whichever comes first.
	Postemergence 1/2-3/4 pint/A	<p>Apply only to onions which have 2 to 5 true leaves.</p> <p>Use at least 50-70 gallons of water per acre and apply by ground equipment or chemigation only. Water volume is important - <b>CONCENTRATED SPRAYS KILL ONIONS.</b> Thorough and uniform coverage is necessary for good weed control.</p> <p>In onion-producing areas, certain environmental conditions reduce development of waxy coating on the onion leaves, thus increasing the possibility of injury. Dry soil, dry onion foliage, high light intensity, low humidity, and high temperatures tend to increase the waxy coating on onion leaves and thus reducing chances for injury. It is essential that the soil and onion foliage be dry at the time of application. Humidity should be low and dew should be off the plants.</p>	

### RESTRICTIONS AND PRECAUTIONS: Onions

- The sensitivity of onions to BUCTRIL® GEL varies with the variety and environmental conditions. Therefore, even if all the label directions are followed, BUCTRIL® GEL application still may cause injury to onions under certain circumstances.
- Do not irrigate onions that have received a preemergence application of BUCTRIL® GEL for 2 days following application or within 3 days of crop emergence.
- Do not use BUCTRIL® GEL on onions grown under low light intensity, in areas such as Oregon, west of the Cascades.
- Do not treat onions damaged by sand, insects, or diseases.
- Do not apply with aerial equipment.
- Do not add surfactant.

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## GRASS CROPS

### CONSERVATION RESERVE PROGRAM AREAS (CRP)

#### BUCTRIL® GEL RECOMMENDATIONS

PRODUCT	RATE	APPLICATION TIMING AND SPECIFIC COMMENTS	
		CROP	WEEDS
BUCTRIL® GEL	1/2-1 pint/A	Apply to grasses after emergence. If alfalfa is planted apply after the 4 trifoliolate leaf stage.	Apply to MOST SUSCEPTIBLE and SUSCEPTIBLE broadleaf weeds up to the 4 leaf stage, 2 inches in height or 1 inch in diameter, whichever comes first.

#### BUCTRIL® GEL TANK MIXTURE RECOMMENDATIONS

PRODUCT	RATE	APPLICATION TIMING AND SPECIFIC COMMENTS	
		CROP	WEEDS
BUCTRIL® GEL + Rhomene® or Rhonox® (MCPA)	1/2-1 pint/A + 1/4 - 1/2 pint/A	Apply to CRP areas after grasses have reached the 3 leaf stage. Do not use this tank mixture in areas where alfalfa or other legumes have been planted.	This tankmix improves control of mustards, pigweed, and kochia. Apply up to the 4 leaf stage, 2 inches in height or 1 inch in diameter, whichever comes first.

#### RESTRICTIONS AND PRECAUTIONS: CRP AREAS

- Do not allow livestock to graze in treated areas or feed treated grass and forage to livestock.
- Do not add spray adjuvants or fluid fertilizers when applying BUCTRIL® GEL to CRP areas planted with alfalfa or other legumes.
- Do not apply BUCTRIL® GEL to CRP areas planted with alfalfa if temperatures are expected to exceed 80°F or severe crop injury may occur. If legumes other than alfalfa have been planted, severe crop injury may occur at any application temperature.
- Do not apply more than 3/4 pint/A of BUCTRIL® GEL to CRP acres that are underseeded with alfalfa.

## GRASS FOR SEED OR SOD PRODUCTION

#### BUCTRIL® GEL RECOMMENDATIONS

PRODUCT	RATE	APPLICATION TIMING AND SPECIFIC COMMENTS	
		CROP	WEEDS
BUCTRIL® GEL	1/2-1 pint/A	Apply to established and newly seeded grasses for seed or sod production before the boot stage. Established grasses tolerant to BUCTRIL® GEL include bentgrasses, Kentucky Bluegrass, Fescues, Ryegrass, Bermudagrass, St. Augustinegrass and Zoysiagrass. BUCTRIL® GEL may also be used on seedling grasses such as Merion, Park, Delta, or common Kentucky Bluegrasses, Pennlawn, Chewings, Illahee or Alta Fescues, Orchard grass, Highland, Seaside or Astoria Bentgrasses, perennial Ryegrasses, Bahiagrass and newly sprigged Zoysiagrass planted for seed or sod production, or forage grasses planted for seed production only.	Apply to MOST SUSCEPTIBLE and SUSCEPTIBLE broadleaf weeds that do not exceed the 4 leaf stage, 2 inches in height or 1 inch in diameter, whichever comes first.

#### RESTRICTIONS AND PRECAUTIONS: Grass for seed or sod production

- Do not feed grasses grown for seed or sod production to livestock

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# NON-CROPLAND

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## NON-CROPLAND AND INDUSTRIAL SITES

### BUCTRIL® RECOMMENDATIONS

PRODUCT	RATE	APPLICATION TIMING AND SPECIFIC COMMENTS	
		CROP	WEEDS
BUCTRIL® GEL	1 - 2 pints/A	Apply to non-cropland and industrial sites when weeds have emerged and are actively growing.	Apply to MOST SUSCEPTIBLE and SUSCEPTIBLE broadleaf weeds that do not exceed the 4 leaf stage, 2 inches in height or 1 inch in diameter, whichever comes first.

#### RESTRICTIONS AND PRECAUTIONS: Non-Cropland and Industrial Sites

- Do not allow livestock to graze or feed in treated areas.
- Addition of surfactant or crop oil concentrate may improve burndown of broadleaf weeds under cool, dry conditions.
- Do not apply BUCTRIL® GEL to non-cropland and industrial sites through backpack or hand-held application equipment.

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## LIMITED WARRANTY AND DISCLAIMER

The manufacturer warrants (a) that this product conforms to the chemical description on the label; (b) that this product is reasonably fit for the purpose set forth in the directions for use when it is used in accordance with such directions; and (c) that the directions, warnings and other statements on this label are based upon responsible experts evaluation of reasonable tests of effectiveness of toxicity to laboratory animals and to plants, and of residues on food crops and upon reports of field experience. Tests have not been made on all varieties or in all states or under all conditions. THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE, ANY OTHER WARRANTIES EXPRESS OR IMPLIED AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANT-ABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

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- <sup>10</sup> Registered trademark of Sandoz Crop Protection Corporation
- <sup>11</sup> Registered trademark of ICI Americas Inc.
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