U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS 264-531 TERM OF ISSUANCE REGISTRATION DIVISION (WH-567) WASHINGTON, D.C. 20460 NAME OF PESTICIDE PRODUCT REGISTRATION NOTICE OF PESTICIDE: REREGISTRATION (Under the Federal Insecticide, Fungicide, BUCTRIL GEL and Rodenticide Act, as amended) NAME AND ADDRESS OF REGISTRANT (Include ZIP code) RHONE-POULENC AG. CO. P.O. BOX 12014 T.W. ALEXANDER DR. RESEARCH TRIANGLE PARK, NC NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number. On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act. A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith. Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others. This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided that you: Submit/cite all data required for registration/ reregistration of your product under FIFRA Section 3(c)(5) and sec. 4 when the Agency requires all registrants of similar products to submit such data. Make the labeling changes listed below before you you release the product for shipment: Add the phrase "EPA Registration No. 264-531". Your waiver request for the acute inhalation study is hereby granted because an aerosol could not be generated due to the high viscosity of the gel formulation. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling. ATTACHMENT IS APPLICABLE APPROVING OFFICIAL

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

A stamped copy of the label is enclosed for your records.

Sincerely yours,

Robert J. Taylor Product Manager (25) Fungicide-Herbicide Branch Registration Division (H7505C)

Enclosure RD:RTaylor:eja:2/25/93:3056800

LE-POULENC AG CO-EREPA

1125 02.25.1993 1313 264-53 30421

# CTRIL' GEL HERBICIDE

E CONTROL OF CERTAIN BROADLEAF WEEDS IN SMALL GRAINS, SEEDLING ALFALFA, SOMETHING ALFALFA

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

Heptanolo acid ester of bromoxynii\* (3,5-dibromo-4-hydroxybenzonitrile)......27.6%

MGREDIENTS:......48.7%

payrill octanoste and heptanoic equivalent to but not less than 4 pounds of bromoxynil per gallon of product.

Reg. No. 264-LGR

E.P.A. Est. No.

# KEEP OUT OF REACH OF CHILDREN DANGER PELIGRO

<u>ujajon AL USUARIO:</u> Si usted no lee ingles, no use este producto hasta que le etiqueta haya sido explicado ampliamente.

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

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

#### STATEMENT OF PRACTICAL TREATMENT

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

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

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

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

#### PRECAUTIONARY STATEMENTS

sive. Causes burns. Do not get in eyes, on skin, or on clothing. May be fatal if swallowed. Harmful II absorbed through skin. protective clothing and rubber gloves. Wash thoroughly with scap and water after handling, before eating and drinking, and reuse. Causes substantial, but temporary eye injury. Do not get in eyes. Wear goggles, face shield, or safety glasses.

NG AERIAL APPLICATION, human flaggers are prohibited unless in enclosed vehicles. Aerial application is prohibited within 300 f residential areas (e.g., homes, echools, hospitals, shopping areas, etc.)

ERSONS HANDLING THE CONCENTRATE MUST OBSERVE THE FOLLOWING REQUIREMENTS.

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

PERSONS APPLYING THIS PRODUCT. OR REPAIRING OR CLEANING EQUIPMENT USED WITH THIS PRODUCT, MUST PRINCE THE FOLLOWING REQUIREMENTS.

applying this product from a tractor (unless the tractor has a completely enclosed cab), or when repairing or cleaning equipment with the product, you must wear clean nitrite gloves and clean cotton (or cloth) coveralis that cover all parts of the body except ead, hands, and feet. Coveralis must be worn over a long elseve shirt and long parts.

plicators (except for pilots) and all persons repairing or cleaning equipment used with this product must wear chemical resistant, shoe coverings, or boots.

cation from a tractor with a completely enclosed cab or serial application is required whenever this product is applied to 350 or acres in a day. To avoid contamination, coveralis and gloves worn when handling the concentrate must be removed prior to an enclosed cab or cockpit. When applying from a tractor with an enclosed cab, clean coveralis and rises nitrile gloves must be performed to the cab, and must be worn when exiting the cab to perform in-field maintenance or repair.

duce exposure to residues, wash the apray rig, tractor, and all other equipment used to handle or apply this product with water or before using the equipment for any other purpose.

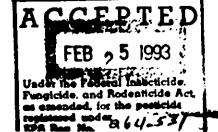
#### /IRONMENTAL HAZARDS

posticide is toxic to wildlife and fish. Use with care when applying to areas frequented by wildlife or adjacent to any body of water apply directly to water. Do not apply when weather conditions favor drift from target areas. Do not contaminate water water

sing of equipment weahwaters.

BICAL AND CHEMICAL HAZARDS It 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

#### REENTRY STATEMENT

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being the vacated by unprotected persons.

Do not enter treated areas without protective ciothing until aprays have dried.

Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult Department of Agriculture for further information.

Written or Oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated area or in an area about to be treated. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers as language customarily understood by the workers. Oral and Written warnings must include the STATEMENT OF I TREATMENT and REENTRY STATEMENTS as they appear on the label.

### 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 oute: bag. Dispose of outer bag in a sanitary landfill, by incineration or, if allowed by State and local aubuming. If burned, stay out of smoke.

#### **GENERAL INFORMATION**

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

BUCTF<sub>1</sub>it® GEL is a selective posternergence herbicide for control of important broadleaf weeds infesting com (field and post (grain and forage), small grains (wheat, barley, oats, rye and triticale), alfalfa (seedling), flax, garlic, mint (established per spearmint), onlons, Conservation Reserve Program Areas (CRP) and grass grown for seed or sod production. Optimum we obtained when BUCTRit® GEL is applied to actively growing weed seedlings. For best performance, BUCTRIL® GEL sh applied to weeds growing under favorable climate and agronomic conditions. Weeds that are exhibiting clear signs of inj (i.e. wilting, drooping of knaves, stunted growth, loss of leaves, or other symptoms) due to abnormally hot or cool weath flooding, plant pathogens, cultivation, insects, other pesticides, fertilizers or other factors may not be controlled by BUCTRIL® GEL is primerrily a contact. herbicide, therefore thorough coverage of the weed seedlings is essential for optimum.

BUCTRIL® GEL has little residual activity. Therefore subsequent flushes of weeds will not be controlled by the initial Generally crops that form a good canopy will help shade subsequent weed flushes. However, certain crops or short-straw 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 fiquid fertifizer. Because to BUCTRIL® GEL is not systemic, recovery of the crop is generally rapid with no lasting effect. Frequency and amount of it be greater when crops are stressed by abrasive winds, cool to cold evening temperatures or mechanical injury, such as the hall, sleet or insect feeding. To reduce the potential for temporary leaf burn, applications should be made to dry for recommended spray volumes per acre when weather conditions are not extreme.

#### MIXING, LOADING AND HANDLING INSTRUCTIONS

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

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

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

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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 5-8 inchee, add the recommended number of BUCTRIL® GEL soluble bags. After adding bags, continue to fill tank with water. Allow 3-4 minutes after drapping bags into the tank for bags to disselve 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 talkmixed with another dry or liquid peetiode 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 white maintaining agitation.

#### HANDLING PRECAUTIONS

- Do not allow the empty outer sleeve . ... 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 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	Emulatiable Concentrate
Dimetriale	Various	Emulatiable Concentrate
Trichlorion	Dylox <sup>2</sup>	Soluble Powder
Cerbotutan	Furadan <sup>6</sup>	Floerable
Chlorpyrifos	Lorsban <sup>4</sup>	Emulelfiable Concentrate
Melethkin		Emulsifiable Concentrate
Oxydemeton-methyl	Metagyetoy-R2	Sprayable Concentrate
Permettirin	Pounce <sup>6</sup>	Emulatiable oncentrate
Fenvalerate	Pydrin <sup>5</sup>	Emulsitiabl ncentrate
Carbaryi	Sevin <sup>0</sup>	Sprayable Labe powder or Flowable
Demeton	Systox <sup>2</sup>	Emulsifiable Concentrate

#### **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 group.

	TYPE OF APPLICATION EQUIPMENT						
CROP	GROUND	AERIAL					
Small grains Beedling allalia Field and Popcom Sonjhum							
Garlio Onion Mini Grass grown for seed or sod production	X						

(X) Indicates recommended application use

FROM RHONE-POULEND AG CO-ERRYH

ORDUND APPLICATION

Use a standard herbiolde boom aprayer that provides uniform and accurate application. Sprayer should be equipped with acresine no finer than 50 meeh 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 pei at the nozzle tips are recommended. Other nozzle types that produce course agray 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 gallors per acre (GPA) is recommended for optimum spray coverage. A minimum of 5 GPA with a minimum spray pressure of 50 pel 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 intestations are heavy, use of higher apray volumes and apray 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 stain 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 critice disce, cores and nozzle types and arrangements that will provide for optimum apray distribution and maximum coverage. In general a minimum spray volume of 5 GPA and a maximum pressure of 40 pel are recommended. A minimum apray volume of 3 GPA may be used if crop canopy and weed density allow adequate apray coverage at that gallonage.

Do not apply during inversion conditions, when winds are gusty or when other conditions favor poor spray goverage 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 outlivations 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 u. ... r 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 sneure 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 fieled under RECOMMENDED USES for each crop.

MOST	SUSCEPTIBLE	BROADLEAF	WEED	SPECIES
Annual:	Sowthletie	(Sonchus olei	raceus)	

Annual Sowthistle Black Nightshade **Blue Mustard Bristly starbur** Coast Flddieneck Common Cooklebur Common Lambaquartera Common Tarweed **Cution!** Nightshade Eastern Black Nightshads Field Pennycress **Green Smartweed** Hairy Nightshade Jimsonweed Ladysthumb Pennsylvania Smartweed

Peoperweed acc. Shepherdepuree Silveries! Nightshade **Tartery Buckwheet** 

1Sunflower Wild Buckwheat

(Solanum nlarum) (Chorlepora tenella) (Acenthoepennum hispidum) (Amsinckia intermedia) (Xanthlum atrumarium) (Chenopodium album) (Hemizonia congesta) (Solanum triflorum) (Solenum ptycenthum) Thisepi arvense) (Polygonum sosbrum) (Solanum saracholdes) (Detura stramonium) (Polygonum persicaria) (Polygonum strumarium (Lepidium spp.)

(Capsella bursa-pastoris) (Solanum elasagnilollum) (Fagopyrum talorloum) (Helianthus annus) (Polygonum convolvulus)

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

#### Susceptible broadleaf weed species Buffalobur (Solanum roetratum)

Common Groundeel Common regweed Com Chamomile Corn Gromwell Cow Cockie Glant Ragwood Hemp Seebania hylest morningglory Knawel \*Kochla London Rocket Maywood Proetrate Knotweed Puncture Vine \*Redroot Pigweed Russian Thistie <sup>2</sup>Spiny Pigweed Tall Morningglory <sup>2</sup>Tall Waterhemp fredeum eldmuT Velvetlesf

Venice Mallow

Wild Mustard

(Ambrosia artemisiliolia) (Anthemis arvensis) (Lithospermum arvense) (Seponaria vaccaria) (Ambrosia trifida) (Sesbania exaltata) (loomoes hederaces) (Scieranthus annus) (Kochie scoperie) (Sleymbrium irlo) (Anthemia cotula) (Polygonum eviculere) (Tribulus terrestris) (Amaranthus retroffexus) (Saleole kali) (Ameranthus spinosus) (ipomoea purpurea) (Amerenthus tuberoulatus) (Sieymbrium altiselmum) (Abutilon theophrasti) (Hibleous trionum)

(Senecio vulgaria)

(Sinapele arvenele) (Raphanue raphanietrum) Wild Redish (Raphanue rephanistrum)
\*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 (Circium arvense) by burning down top growth. Regrowth may occur.

# **BUCTRIL GEL APPLICATION RATE CHART**

Directione:

Select intended use rate in pints per acre.

Select numbers of acres to be treated from the rate column selected in Step 1.

Number of gel bage needed is listed in the first column.

BUCTRIL® GEL RAYE		NUMBER OF A	CRES TREATED	
Number of bage	3/8 Pint/Aore	1/2 Pint/Acre	3/4 Pint/Aore	1 Pint/Apre
1	6 2/3	6	3 10	2 1/2
2	18 1/8	10	6 20	5
3	20	15	10	7 1/2
4	?6 2/3	20	13 1/9	10
6	33 1/3	25	16 20	12 1/2
6	40	30	20	15
7.	46 2/3	35	22 1/3	17 1/2
8	53 1/9	42	26 28	20
9	60	45	30	22 NZ
10	88 2/3	50	33 1/3	26
11	73 1/3	55	36 2/3	27 1/2
12	80	60	40	30
19	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	108 2/3	80	53 1/3	40

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

# **CEREAL GRAIN CROPS**

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

#### BUCTRIL® GEL RECOMMENDATIONS

		APPLICATION TIMING AN	ID SPECIFIC COMMENTS
PRODUCT	RATE	CROP	WEEDS
BUCTRIL® GEL	Preemergence 1/2 - 3/4 pint/A	Apply to corn or sorghum before planting until just prior to cropemergence.	See CORN AND SORGHUM APPLICATION RATE TABLE - BUCTRIL® GEL for list of weede and corresponding stages of growth that
	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).	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.
	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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এক এটা সম্ভব্য <mark>সমূহত প্রতিষ্ঠানিক প্রতি</mark> করাই করাই বিশ্বস্থিত হৈছে স্থানিক বিশ্বস্থিত হৈছে ।

#### CORN AND SORGHUM APPLICATION RATE TABLE - DUCTRIL® GEL

WEED SP	ECIES	1/2	PinVA		Pinto/A
When determining leaf etage, count all leaves except optyledonary leaves		Max.	Max. Wood	Max.	Max. Wood
		Lea! Stage	Height (inchee)	Leaf Stage	Height (Inches)
Black Nightshade	(Solenum nigrum)	8	6	6	6
Buffalobur	(Solenum roetratum)	4	2	6	4
Common Cocklebur	(Xanthium strumarium)	6	8	8	10
Common Lambequarters	(Chanopodium album)	•	6	•	8
Common Regulaed Eastern Black Nightshade	(Ambroein artemiellfolia)	6	4	8	6
Eastern Black Nightshade	(Solenum phreamhum)	6	6	6	6
Glant Regweed	(Ambroeia trillia)	6	4	6	6
Hemp Seebania	(Sesbania exaltata)	•	•	4	4
hylesi Morningglory	(bomosa haderacea)	3	3	4	4
Jimeonweed	(Detura stramonium)	4	4	8	6
Kochia	(Kochia ecoparia)	•	•	•	2
Ladysthumb	(Polygonum persicaria)	4	4	6	6
Pennsylvania Smartweed	(Polygonum strumerium)	4	4	6	6
Redroot Pigweed <sup>s</sup>	(Ampranthus retroflexus)	•	-	4	2
Spiny Pigweed <sup>9</sup>	(Amaranthue apinoeus)	•	-	4	2
Sunflower	(Hollanthus annus)	4	6	8	8
Tall Morningglory	(lpomose purpurse)	3	3	4	4
Tall Waterhemp <sup>5</sup>	(Amaranthus tuberculatus)	•	•	4	2
Velvetiesf	(Abutilon theophrasti)	4	3	6	5
Venice Mallow	(Hibiaous trionum)	•	•	4	2
Wild Buckwheet	(Polygonum convolvulus)	4	8	8	8
Wild Musterd	(Sinapie arvensis)	- '	•	4	4
WEEDS SUPPRESSED					
Canada Thistle	(Cirelum arvensa)	Not Rec	bebnemox	8 Inch to	bud stage

When determining leaf stage, count all leaves except cotyledonary leaves.

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

Control of pigweeds in the high plains areas of Texas and Okiahoma may not be satisfactory with BUCTRIL® GEL Herbicide. Repeat applications may be necessary to achieve satisfactory control.

#### BUCTRIL® GEL TANK MIXTURE RECOMMENDATIONS

		ADDITION TIMES AS	ND SPECIFIC COMMENTS
PRODUCT	RATE	CROP TIMING A	WEEDS COMMENTS
BUCTRIL® GEL  tatrazine	Preemergence 3/6-3/4 pint/A + 1/2-1 1/5 to al/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® GIEL + Atrazine
	3/8-1/2 pint/A + 1/2-1 1/5 lb aVA	Apply to corn after emergence but before corn is 12 inches tail.  Apply to sorghum after the 3 leaf stage but before sorghum is 12 inches tail.	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 al/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 strazine to reach ground water.

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#### COM (FIELD AND POP) AND SORGHUM (GRAIN AND FORAGE) (communic

# CORN AND SORGHUM APPLICATION RATE TABLE - SUCTRIL® GEL + ATRAZINE TANK MIXTURES

WRED SPECIES!				BŲC'	LUIL.	JEL A	ND AT	RAZINE	RATE	(TANK	Mix		
When determining le	of siage, count all		TIVA		ANIA	1/21	SIUX.	1/21	S.IVA	8/4 1	Tri/A	847	FWA -
eaves except cotyle	donaty leaves		tel/A		bel/4	1/2	bel/A	1 1/5		1/21	bel/A	1 1/6	
		MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX
		BTAGE	WEED	LEAF	WEED	LEAF	WEED	STAGE	WEED	LEAF STAGE	WEED	STAGE	WEED
Hask Michaele	(Bolerum nigrum)	A	4	A	4	A	TERMI	4	A	8			
		4	4	4	4	i	4	ĭ	4	Ĭ	4	ě	4
haravastabar	Septem entered	Ă.	4	4	4	4	4	Ì	•	•	•	•	•
Common Cocklebur	(Xandsham	•	•	8	10	•	10	10	12	10	12	10	12
Common Lambequariers	(Chempodum abum)	•			10		10	•	12	•	12	•	12
Common Plagueod	Anthrode		Ă	•	Ĭ		•	6	•		•	8	6
•	erleminitude)	-		-	-	•	•	_	· ·				
autom Black Matachado	(Behinsen paraentium) (Bestiden haderscon) (Amignati stilita)	4	4	4	4 .	•	•		•	•	į		
	(betates hedyraces)	•	•	4	•	4	•	4	3	4	3	4	5
Hart Ragmood Tomp Sockania	(Ambrook selido) (Bookstrin enskala)	4	•	, į	ŀ	•	ŧ	•	•		10		10
temp Sectionic	(and joint engage)	4	•	4	•	•	•	•	•	4	•	7	- 1
vylee! Morningglory	(montese hadarnose)	2	3	•	•		•	•	2	•	:	- 3	:
Ancorweck Kachie	(Deture stremonium)	4	2	4	•	•		•	•	•	7	•	7
vocinia. Nadystivumb	(Koo'sis ecoperte)	;	Z		2		Z	:	-	i	- 3		:
-esystems	(Polygenum persionnis)	•	•	•	•	•	•	•	•	•	•	•	•
Pelmies! Morningglory	(Inaxiaee wrightii)	•		4	3	4	3	4	3	4	3	4	3
Penhaytvania Smartwood	(Pelypenum estamentum)	4	4	4	4	•	•	•	8	•	•		
Prickly Side	(Side apinoss)	•	•	•	2	4	1		2	4	1	6	2
runciurevine	Tribulus terrestria)	-	•	•	•	•	•	•	4	6	4	6	4
Purple Morninggigry	(pomese muricete)	•	•	2	8	2	3	2	3	2	3	Ž	3
Redroct Pigweed <sup>®</sup>	(Amejanthus retroflerus)	4	2	•	•	8	4	•	•	•	4		5
Britishower Morningglory	(Jacquemontia termilolia)	-	•	4	3	4	3	4	3	4	3	4	3
Smooth Pigweed <sup>S</sup>	(Amerendius ferbridus)	4	2	•	4	4	2	2	4		4	•	4
Spiry Pigweed <sup>3</sup>	(Ameranthus apheeus)	4	2	•	6	•	4	1	•	•	4	•	•
Linfower	(Hellenthus annus)	•		•	10	8	10	10	12	10	12	10	12
fall Morningglory	(framera purpuras)	8	3	4	4	4	4	4	4	4	4	4	4
Fall Waterhemp <sup>3</sup>	(Amerantius subgroulesus)	4	2	•	•	6	4	•	•	6	4	•	•
Coolhed Spurge	(Euphorbia dontate)	2	2	2	2	4	4	4	4	4	4	4	4
/alvoteal	(Abusten theophrasil)	4	3	4	3	6		•	5	•	•	•	6
/enice Melipu	(Hibisque stonum)	4	2	4	2	4	5	4	2	4	2	4	2
Mid Buclevheat	(Pohtonum gothokulus)	•		4	10		10	10	12	10	12	10	12
Mid Musterd	(Singsite arrenule)	4	4	_ 4	4	4	4	4	4	4_	4	4	4
WEEDS SUPRES	SEDI									_			
Canada (Nase	(Carelan ervenee)		Not		Vol	P	<del>bud</del>		<b>bud</b>		-bud	-	<b>507</b>
		Recon	bebnemn	- Ресси	mended								

When determining leaf stage, count all leaves except cotyledonary leaves.

#### ATRAZINE CONVERSION TABLET

ATRAZINE FORMULATION	ATRAZINE RATE POUNDS OF ACTIVE INGREDIENT PER ACRE	ATRAZINE FORMULATION RATE PER ACRE	
Atrazine 4L	1/2	1 Pint	
Atrazine 80WP	1 1/6 1/2	2 25 Pints 6/8 Pound	
Astrex® Nine-O <sup>12</sup>	1 1/6 1/2 1 1/5	1 1/2 Pounds 3/5 Pound 1 1/3 Pounds	
VENUE OF STREET		addition aread in Apple or Internal width Billion	HE KIT

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Selected rates of BUCTRIL® GEL + atrazine tank mixtures suppress the growth by burning down of top growth. Regrowth may occur.

If pigweeds (Ameranthus 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 to al/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.

CORN (MELD AND POP) AND BORGHUM (GRAIN AND PORAGE) (continued)

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

Large Common Cockiebur, Common Lambaquarters and Sunflower

For control of common cocklebur and common lambequarters up to 14 inches in height and sunflower up to 18 inches in height, use a postemergence application of BUCTRIL® GEL 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 velvetical up to 14 inches in help'st, use postemergence application of BUCTRIL® GEL at 3/4 pint/A or BUCTRIL® GEL + atrazine tank mixture at 1 pint/A + 1 1/5 ib ai/A. Make a second application of BUCTRIL® GEL at 1/2 pint/A 7 to 10 days later.

#### Canada Thistie 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:

BUOTRIL® GEL at 3/4 pin/A

BUCTRIL® GEL at 3/4 pint/A + atrazine at 1/2 - 1 1/5 be al/A

BUCTRIL® GEL at 3/4 pint/A + Benvel at 1/4 - 1/2 pint/A

BUCTRIL® CFL at 3/4 pint/A + atrazine at 1/2 - 1 1/5 lbs al/A + Banvel at 1/8 - 1/4 pint/A

BUCTRIL" JEL at 3/4 pint/A + 2,4-D at 1/8 - 1/4 to al/A

BUCTRIL® GEL at 3/4 pint/A + strazine 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 thistie 4-8 inches tall prior to killing frost. Follow with a similar control program in next years rotational crop.

#### ADDITIONAL BUCTRILO GEL TANK MIXTURE RECOMMENDATIONS

		APPLICATION TIMING AND SPECIFIC COMMENTS					
PRODUCT	RATE	CROP	WEED8				
BUCTRIL® GEL  *Banvel***	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 nozzies if crop is taller than 8 inches.	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 com is 36 inches tall or 15 days before tassel emergence, whichever comes first.					
		Appi; 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 ib al/A + 1/8-1/4 pint/A	Apply to field corn after emergence but before corn is 12 inches tail.  Apply to sorghum after the 3 leaf stage but before sorghum is 12 inches tail. Do not apply in the boot stage. Use drop nozzles if crop is tailer than 8 inches.	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 to al/A	Apply to field corn between the 4 leaf stage and before corn is 12 inches tall,					
	1/8 1/4 plnt/A	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.					

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

### ADDITIONAL SUCTRIL® GEL TANK MIXTURE RECOMMENDATIONS (commund)

PRODUCT	RATE	APPLICATION TIMING AN	WEEDS
BUCTRIL® GEL + 2,4-D (such as WEEDONE® and WEEDAR® Brand)	1/2 pint/A 1/16-1/4 to al/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 BU GEL at recommended rat Improved pigweed and kochle For Canada thistle burndown bindweed suppression up to bloom stage, use 1/8 - 1/4 I
	3/4 pint/A 1/16-1/4 fu al/A	Apply to field com between the 4 leaf stage and prior to tassel emergence. Use drop nozzles if crop is tailer 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 pinuA 1/2-1 1/5 lb al/A 1/16 -1/4 lb al/A	Apply to field corn after emergence but before the corn is 12 inches tail. It is drop nozzles if crop is tailer than 8 inches.  Apply to sorghum after the 3 leaf stage but before sorghum is 12 inches tail. Do not apply in the boot stage. Use drop nozzles if crop is tailer than 8 inches.	GEL + atrazine tank mix recommended rates of ap plus improved devils claw cor Canada thistle burndown of bindwesd suppression, use 1/2 at/A of 2,4-D with BUCTRIL® Comments of the control
	3/4 pint/A + 1/2-1 1/5 lb al/A 1/18-1/4 lb al/A	Apply to field corn between the 4 leaf stage and before the corn is 12 inches tail. Use drop nozzles if crop is tailer than 8 inches.  Apply to sorghum between the 4 leaf stage and before sorghum is 12 inches tail. Do not apply in the boot stage. Use drop nozzles if crop is tailer than 8 inches.	
BUCTRIL® GEL + Accent <sup>8</sup> + non-lonic 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° tail corn. Use drop nozzles only when corn is 24 - 36 inches tail.	BUCTRIL® GEL at 1/2 or 3/4
	3/4 pint/A + 2/3 oz/A + 1 qt/100 gai of water (0.25% v/v)	Apply to field corn postemergence afte the 4 leaf stage up to 36 inches in height. Use drop nozzles only when corn is 24 - 36 inches tall.	<u> </u>



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#### CORN (PIELD AND POP) AND BORGHUM (GRAIN AND PORAGE)

ADDITIONAL BUCTRIL® GEL TANK MIXTURE RECOMMENDATIONS (continued)

		APPLICATION TIMING AND SPECIFIC COMMENTS				
PRODUCT	RATE	CROP	WEED\$			
BUCTRIL® GEL  + atrazine + Accent  + non-lonic surfactant	1/2 pint/A 1/2 - 1 1/5 lb al/A 2/3 az/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 broadlest weeds controlled by BUCTRIL® GEL + atrazine plus grasses and broadleaves controlled by Accent. For optimum weed pontrol, treat when broadleaves and grasses are in the recommended growth stage or size. Follow the weed size guideline on the BUCTRIL® GEL or Accent lebels that are least restrictive.			
	3/4 pint/A + + + + + + + + + + + + + + + + + + +	Apply to field corn between the 4 leaf stage of crop growth but before the corn is 12 inches tell.				
BUCTRIL® GEL + Beacon <sup>12</sup> + non-ionic surfactant	1/2 pint/A + 0.38-0.78 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.  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.	BUCTRIL® GEL at 1/2 pVA plue 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 pinVA + 1/3 - 2/3 pinVA	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 to al/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 plnuA 1/2 - 1 1/5 lb al/A 1/3 - 2/3 plnuA	Apply to field corn from 4 leaf stage but belo e corn is 12 inches tall.	·			

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

ADDITIONAL BUCTRIL® DEL TANK MIXTURE RECOMMENDATIONS (continued)

		APPLICATION TIMING AP	ID SPECIFIC COMMENTS
PRODUCT	MATE	CROP	WEEDS
BUCTRIL® GEL  Bladex 80W <sup>5</sup> or Bladex 90DF <sup>8</sup>	1/2 pint/A 1 1/2-2 1/2 b/A <sup>1</sup> or 1 3/10-2 1/5 b/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	GEL at 3/4 pint/A plue suppression or control of foxtalls and other annual grasses that do not exceed 1/2
BUCTRIL® GEL  + Extrazine N DF5 or Extrazine 90DF5	1/2 plnUA 1 3/10-2 1/6 Ib/A <sup>1</sup>	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.	<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 pinte/A	Apply to corn or sorghum before planting time up until just prior to crop emergence.	

#### 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 com 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 excuesive 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 tani: 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 mbitures 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 breakings while crop is brittle.
- Follow all restrictions and precautions on the label of all products used in tank mixture with BUCTRIL® GEL.

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

# BUCTRIL® GEL RECOMMENDATIONS

		APPLICATION TIMING AN	D SPECIFIC COMMENTS
PRODUCT	RATE	CROP	WEEDS
BUCTRIL® GEL	3/4 plnt/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 Montaria. Apply to wheat, barley, oats, rye and triticale from emergence to the book 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 outs in Idaho, Oregon, Washington, Colorado, Wyoming and Montana. Apply to wheat, barley, oats, rye and triticale from emergence to the boot stage.	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
	1/2-3/4 plnt/A	Spring seeded wheat, barley and oate 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/l\ for control of kochla that is 2 - 4 iriphile in height and pigweed that does not exceed the 4 leaf stage or 2 irich. a in height, whichever comes first.
	Small Grains underseeded with Alfalfa	Apply to small grains (wheat, barley, oats, rye or triticale) underseeded with	SUSCEPTIBLE and 3/4 pint/A to
}	1/2-3/4 pint/A	alfalfa after small grains emergence up to the boot stage and when underseeded alfalfa has a minimum of 4 trifoliate leaves. Do not apply BUCTRIL® if temperatures are expected to exceed 70°F at or 3 ds; 3 following application or unacceptable alfalfa injury may occur	do not exceed the 4 leaf stage, 2 inches in height or 1 inch in diameter, whichever comes first.

#### SMALL GRAMS (WHEAT, BARLEY, OATS, RYE AND TRITICALE) (continued)

#### BUCTRIL® GEL TANK MIXTURE RECOMMENDATIONS

**************************************			D SPECIFIC COMMENTS
PRODUCT	RATE	CROP	WEEDS
Buctril® Gel +	1/2-1 pln/A +	from the fully tillered but before jointing stage.	This tankmix improves our mustards and pigweed. A
2,4-D (auch as WEEDONE <sup>D</sup> or WEEDAR <sup>D</sup> brand)	1/4-1/2 to al/A		weeds up to the 4 leaf stage, 2 in height or 1 inch in di whichever comes first.
	3/8-1/2 plnVA	Apply to wheat and barley in Minnesota, North and South Dakota	This tankmix improves control buckwheat, redroot pigweed a
	1/4-1/2 15 -1/4	from the fully tillered but before jointing stage.	mustard. Apply to weeds up to leaf stage, 2 inches in height of in diameter, whichever comes
BUCTRIL® GEL	1/2-1 plnVA	Apply to wheat, barley, oats and rye	This tankmix improves cor
+ MCPA (such as RHONOX <sup>9</sup> or RHOMENE <sup>9</sup> )	1/4-1/2 to aVA	from the 4 leaf stage but before jointing.	mustards, pigweed and koohle to weeds up to the 4 leaf s inches in height or 1 inch in di whichever comes first.
BUCTAIL® GEL	1/2-3/4 plnt/A	Fall seeded wheat apply prior to the jointing stage. Spring seeded wheat apply up to the 5 leaf stage.	This tankmix improves con broadleaves such as pr
Banvel <sup>10</sup>	1/8-1/4 plnt/A		knotweed. Apply to weeds up leaf stage, 2 inches in height o in diameter, whichever comes
BUCTRIL® GEL	3/8-3/4 plnt/A	Apply to wheat and barley from the 2 leaf stage but before boot stage.	This tankmix improves con broadleaves such as henbit
Glean <sup>5</sup>	1/6-1/3 oz/A	Refer to Glean label for crop rotation and other restrictions.	mustard and pigweed. Apply to
nonionia surfactant	1 qt/100 gal of water		height or 2 inches in di- whichever comes first.
BUCTRIL® GEL	3/8-3/4 plnt/A	Apply to wheat and barley from the 2 leaf stage but before the boot stage.	
Ally <sup>6</sup>	1/10 oz/A	Refer to Ally label for crop rotation and other restrictions.	
nonionic surfactant	1 qt/100 gal of water		inches in diameter, whichever first.
BUCTRIL® GEL	3/8-3/4 pint/A	Apply to wheat and barley from the 2	
Finesse <sup>5</sup>	1/6-1/3 oz/A	leaf stage but before the boot stage. Refer to Finesse label for crop rotation and other restrictions.	broadleaves such as taney r henbit, chickweed and p Apply to weeds up to the 4 let
nonionic surfactant	1 qV100 gal of water	and other resultations.	4 inches in height or 2 in diameter, whichever comes fir
BUCTRIL® GEL	3/8-3/4 plnt/A	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.	
Amber <sup>12</sup>	0.28 - 0.56 oz/A		
nonionic surfactant	0.25 - 0.5% vA		height or 2 inches in di whichever comes first.

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# SMALL GRAMS (WHEAT, BARLEY, DATS, RYE AND TRITICALE)

## BUCTRIL® GEL TANK MIXTURE RECOMMENDATIONS (continued)

PRODUCT	RATE	CROP	D SPECIFIC COMMENTS WEEDS
BUCTRIL® GEL			This tankmix improves control of broadlest weeds such as redroot
Express	1/6-1/3 oz/A	le vieible. Refer to Express label for p	pigweed, tensy mustard and suppression of Canada thiells. Apply
nonionio surfactant	1 qt/100 gal of water		to annual weeds up to the 4 leaf stage, 4 inches tall or across and up to
	3/8-3/4 pint/A	Spring wheat and barley. Apply after crop is in the 2 leaf stage but before	Canada thistie 4 to 8 inches tall with 2 to 6 inches of new growth.
	1/6-1/3 0Z/A	the flag leaf is visible. Refer to Express label for crop rotation and	
···	1 qt/100 gal of water	other restrictions.	
BUCTRIL® GEL	3/8-3/4 plnt/A	Winter wheat. Apply after the 2 leaf stage but before the 3rd node is	This tank mix improves control of broadlest weeds such as heabit,
Harmony Extra <sup>5</sup>	Also ONE	detectable. Refer to the Harmony	chickweed and redroot pigweed. Apply to weeds up to the 4 leaf stage,
nonionic surfactant	1 qt/100 gal of water	restrictions.	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	1/2-3/4 pint/A	Apply to wheat and barley after the	
Curtail <sup>4</sup> or Curtail M <sup>4</sup>	2 pinte/A	crop begins to tiller up to the 1st node detectable.	kochia, wild buckwheat and Canada thistie. Apply to annual broadlead weeds up to the 8 leaf stage up to 4 inches in height or 2 inches in diameter and Canada thistie in the rosette to prebud stage.
BUCTRIL® GEL + metribuzin (Sencor <sup>2</sup> or Lexone <sup>5</sup> )	1/2-5/8 plnt/A + 1/8-1/4 to al/A	spring after growth has started and secondary roots with a minimum of 3 to 4 tillers have been established but	broadleaves such as chlokweed filaree, hentit and doglennel. Aprily to weeds that do not exceed 2 indhes tall or rosettes of 2 inches in diameter. The higher use rates of both products
BUCTRIL® GEL	1/2 pint/A	Winter wheat and winter barley in Idaho, Oregon and Washington. Use	his tankmix improves control of broadleaves such as henbit and
diuron	4/10 lb al/A	only in areas where annual rainfall exceeds 18 inches. One fall application after emergence but before soil freezes or in spring as soon as soil thaws.	gromwell. Apply to weeds before the are 2 inches tall or 2 inches it diameter.
BUCTRIL® GEL	1/2 pint/A	Spring wheat. Apply when crop begins	
Tiller <sup>7</sup>	1 pint/A	to tiller (3 - 4 leaf stage) up to the 8 leaf stage. Refer to the Tiller label for complete use directions and restrictions.	tankmix will control green toxtall from



# SMALL GRADIS (WHEAY, SARLEY, GATS, RYE AND TRITICALE) BUCTRIL® GEL TANK MIXTURE RECOMMENDATIONS (continued)

		APPLICATION TIMING AN	ID 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 tyegrass control in addition to broadlesves. Apply to grasses 1-3 leaf stage and broadlesves no larger than 4 leaf stage or resettes of 1.5 inches in diameter.
	1/2-3/4 pint/A 2 - 2 2/3 pinte/A	Winter wheat and spring wheat. After emergence but before jointing.	This tankmix will provide wild oat, green foxtall 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 Aveng: label for varietal and other restrictions.	This tankmix will provide wild out control in addition to broadleaves. Apply to wild outs in the 3-5 leaf stage and broadleaves that do not exceed the 4 leaf stage or resettes of 1.5
		Spring Wheat. Five to 6 leaf stage. Refer to Avenge label for varietal and other restrictions.	inches in diameter. Avenge use rates per acre are 2.5 pints (1-10 pats per eq. ft.), 3 pints (11-25 pats per eq.ft.) or 4 pints (11 per eq. ft.)
		Barley. Two to 7 leaf stage.	sq. ft.).

#### 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 moleture 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 posticide carryover or application.
- Do not add a surfacture or crop oil when applying to underseeded affaits or increased injury will occur.
- Do not cut for feed or graze spring treated underseeded affails within 30 days following treatment.
- . Do not cut for feed or graze fall or winter treated underseeded alfalia 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.

# FORAGE, FIBER AND SPECIALITY CROPS

# ALFALFA (SEEDLING)

# BUCTRIL® SEL RECOMMENDATIONS

		APPLICATION TIMING A	ID SPECIFIC COMM
PRODUCT	HATE	CROP	WEEDS
BUCTRIL® GEL	1/2-3/4 pint/A	Apply in the fall or spring to seedling alially when the majority of the field has a minimum of 4 tributate leaves. When alfalfa stand is uneven and conditions favor leafburn, unacceptable crop injury may occur to alfalfa in the 2 trifoliate 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 Kaneas, 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.	3/4 pint/A for 8U broadlest weeds (See list) when weeds do not stage, 2 inches in heigh diameter, whichever BUCTRIL® GEL will nontrol over-wintered henbit and mustards.



# FLAX (Linium usitatissium only)

#### BUCTRIL® GEL RECOMMENDATIONS

		APPLICATION TIMING AT	ID SPECIFIC COMMENTS
PRODUCT	RATE	CROP	WEEDS
BUCTRIL® GEL	1/2 plnt/A	Apply to flex that is 2 to 8 inches in height. Do not apply BUCTRIL® GEL to flex 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

		APPLICATION TIMING AN	ID SPECIFIC COMMENTS
RODUCT	RATE	CROP	WEEDS
UCTRIL® GEL celon	1/2 pint/A + 2-2 2/3 pints/A	Apply to flax that is 2 to 3 inches in height. Do not apply BUCTRIL® GEL to flax during or after the bud stage.	This tankmix will control broadleaf weeds plus wild cats, green foxta-1 and annual ryegrass. Apply to greeses in the 1-3 lest stage and broadleaves no larger than 4 lest stage, 2 iriohes in height or 1 inch in diameter, whichever comes first,

STh. TIONS AND PRECAUTIONS: Flax (Linium unitationium 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.

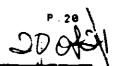
Application under high humidity conditions can injure flax.

Do not apply BUCTRIL® GEL with crop oil concentrate, auriaciants or nitrogen solutions.

follow all precautions, directions and restrictions on the Hoelon label when using in tank mixture with BUCTRIL® GEL.

To not use on ornamental flax.





#### GARLIC

#### BUCTRIL® GEL RECOMMENDATIONS

_		APPLICATION TIMING A	ND SPECIFIC COMMENTS
PRODUCT	RATE	CROP	WEEDS
BUCTRIL® GEL	3/4-1 pint/A	Apply to garllo after emergence but before 12 inches in height.	Apply to MOST SUSCEPTIBLE and SUSCEPTIBLE broadless weeks up to the 4 less stage, 2 inches in height or 1 inch in diameter, whichever ocmes first.

#### PRECAUTIONS AND RESTRICTIONS: Garlio

- . 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**

		APPLICATION TIMING AN	ID SPECIFIC COMMENTS
PRODUCT	RATE	CROP	WEEDS
BUCTRIL® GEL	1/2-3/4 pint/A	established peppermint or spearmint	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 (prowing 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® Herbicide within two weeks may result in unacceptable crop injury.
- Do not use in spring on newly established mint. Fall application to apring planted mint should be acceptable if the crop is well established.
- BUCTRIL® GEL can cause temporary sturting 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 hervest 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.



#### **ONIONS**

#### BUCTRIL® GEL RECOMMENDATIONS

!	APPLICATION TIMING A	ND SPECIFIC COMMENTS
RATE	СПОР	WEEDS
Preplant/Preemergence	Apply to onlone at least 3 to 4 days	Apply BUCTRIL® GEL at 1/2 p
1/2-3/4 plnt/A	prior to emergence. Rainfell x irrigation within 2 days following preemergence applications or 3 days prior to crop emergence may result in unacceptable crop injury.	and 3/4 plot/A for \$11205
Postemergence	Apply only to onlone which have 2 to 5	
1/2-3/4 pint/A	TUO IDUVOL.	
	Use at least 50-70 gallons of water per acre and apply by ground equipment or chemigation only. Water volume is important - CONCENTRATED SPRAYS KILL ONIONS. Therough and uniform coverage is necessary for good weed control.	
	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 daw should be off the plants.	
	Preplent/Preemergence 1/2-3/4 pint/A  Postemergence	Preplent/Preemergence  1/2-3/4 pint/A  Postemergence  1/2-3/4 pint/A  Apply only to onlone which have 2 to 5 true leaves.  Apply only to onlone which have 2 to 5 true leaves.  Use at least 50-70 gallone of water per sore and apply by ground equipment or chemigation only.  Water volume is important - CONCENTRATED SPRAYS KILL. ONIONS. Therough and uniform coverage is necessary for good weed control.  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.

# RESTRICTIONS AND PRECAUTIONS: Onions

The sensitivity of online to BUCTRIL® GEL varies with the variety and environmental conditions. Therefore, even if all the lab directions are followed. BUCTRIL® GEL application still may cause injury to online under certain circumstances.

Do not irribate phions that have received a preemergerice application of BUCTRIL® GEL for 2 days following application or will be not use BUCTRIL® GEL on online grown under low light intensity, in areas such as Oregon, west or the Gaecades.

