

PM 25

264-477

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

9/2/97

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James A. Barron, Ph.D.  
Registration Manager  
Rhone-Poulence Ag Company  
2 Alexander Drive P.O. Box 12014  
Research Triangle Park, NC 27709

SEP 2 1997

Dear Dr. Barron:

SUBJECT: Labeling Amendment  
Buctril(r) + Atrazine Herbicide  
EPA Registration No. 264-477  
Your Application Dated August 14, 1997

The labeling referred to above, submitted in accordance with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable provided you make the following changes:

Under the "Environmental Hazards" section that pertains to atrazine add

"2. Apply this product to the entire tile-outletter terraced field and immediately incorporate it to a depth of 2-3 inches in the entire tile-outletted terraced field."

and change number 2. to 3.

A stamped copy is enclosed for your records. Please submit one (1) final printed copy for the above mentioned label before releasing the product for shipment.

Sincerely,

*Jim Tompkins*  
Jim Tompkins  
Product Manager (25)  
Herbicide Branch  
Registration Division (7505C)

Enclosure

CONCURRENCES

SYMBOL ▶	7505C							
SURNAME ▶	MINOR, E.							
DATE ▶	Aug 29, 1997							

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# RESTRICTED USE PESTICIDE

(GROUND AND SURFACE WATER CONCERNS)

For retail sale to and use only by Certified Applicators or persons directly under their supervision and only for those uses covered by the Certified Applicator's certification. This product is a restricted use herbicide due to ground and surface water concerns. Users must read and follow all precautionary statements and instructions in order to minimize potential for atrazine to reach ground and surface water.

## BUCTRIL® + atrazine HERBICIDE

POSTEMERGENT HERBICIDE FOR CONTROL OF CERTAIN BROADLEAF WEEDS IN CORN AND SORGHUM.

ACTIVE INGREDIENT: Octanoic acid ester of bromoxynil\* (3,5-dibromo-4-hydroxybenzotrile) ..... 15.74%  
atrazine\*\* (2-chloro-4-ethylamino-6-isopropylamino-S-triazine) ..... 21.62%

INERT INGREDIENTS: ..... 62.64%

\*Product contains bromoxynil octanoate equivalent to 10.81% of bromoxynil or 1.0 pound of bromoxynil per gallon.

\*\*Product contains 2.0 pounds of atrazine per gallon.

E.P.A. Reg. No. 264-477

E.P.A. Est. No. 264-MO-02

### KEEP OUT OF REACH OF CHILDREN

## CAUTION

### SHAKE WELL BEFORE USING

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 SWALLOWED: Get medical attention. Do not induce vomiting, contains petroleum distillates. Do not give anything by mouth to an unconscious person.

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

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

ACCEPTED  
with COMMENTS  
In EPA Letter Dated

SEP 2 1997

### PRECAUTIONARY STATEMENTS

**CAUTION - RESTRICTED USE**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

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

264-477

Harmful if swallowed, or absorbed through skin or inhaled. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist.

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

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

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

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

If you will handle a total of 120 gallons or more of this product per day, you must use a mechanical transfer system for all mixing and loading operations. If this product is packaged in a 30 gallon drum, you must use a mechanical transfer system which terminates in a drip-free hard coupling which may be used only with a spray or mix tank which has been fitted with a compatible coupling. If you do not presently own or have access to a mechanical transfer system with this type of coupling, contact your dealer for information on how to obtain such a system or to modify your present system. When using a mechanical transfer system, do not remove or disconnect the pump or probe from the container until the container has been emptied and rinsed. The pump or probe system must be used to rinse the empty container and to transfer the rinsate directly to the mixing or spray tank.

Application from a tractor with a completely enclosed cab or aerial application is required whenever this product is applied to 360 or more acres in a day. The closed systems and enclosed cabs must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(4-6)]. The handler PPE requirements may be reduced or modified as specified in the WPS. 3/10

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.

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.)

### User Safety Recommendations

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

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

### ENVIRONMENTAL HAZARDS - Caution Restricted Use

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 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. **Atrazine is a Restricted Use Herbicide due to ground water concerns. Users must read and follow all precautionary statements and instructions on this label in order to minimize the potential for atrazine to reach ground and surface water.** Ground water contamination may be reduced by diking and flooring of permanent liquid bulk storage sites with impermeable material. This product may not be mixed/loaded, or used within 50 feet of all wells including abandoned wells, drainage wells, and sink holes. This product may not be mixed or loaded within 50 feet of intermittent streams and rivers, natural or impounded lakes and reservoirs. This product may not be applied aerially or by ground within 66 feet of the points where field surface water runoff enters perennial or intermittent streams and rivers or within 200 feet around natural or impounded lakes and reservoirs. If this product is applied to highly erodible land, the 66 foot buffer or set-back from runoff points must be planted to a crop or seeded with grass or other suitable crop.

To ensure protection of surface water from runoff through standpipes and tile outlets in terraced fields, one of the following options may be used:

- 1) Do not apply this product within 66 feet of standpipes in tile-outletted terraced fields.
- 2) Apply this product to the entire tile-outletted terraced field under a no-till practice only when high crop residue management practices are used. High crop residue management practice is described as a crop management practice where little or no crop residue is removed from the field during or after crop harvest.

### 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 exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated 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 long-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.

## STORAGE AND DISPOSAL

### STORAGE

Do not contaminate water, food or feed by storage or disposal. Do not store near fertilizers or seeds. Store at temperatures above 3° F. If exposed to freezing temperatures, store at temperatures above 55° F for 24 hours or until completely thawed. Shake well before using.

### PESTICIDE DISPOSAL

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

### CONTAINER DISPOSAL

#### Plastic

Triple rinse (or equivalent). Then puncture and dispose of in a sanitary landfill, or incineration, or if allowed by State and Local authorities, by burning. If burned, stay out of smoke.

#### Metal

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by State and Local authorities.

### RETURNABLE – REFILLABLE CONTAINERS

This material may be repackaged in 15 or 30 gallon returnable-refillable containers by Rhône-Poulenc Ag Company or a registered establishment under contract to Rhône-Poulenc Ag Company. After use, return the container to the point of purchase or designated locations. This container must only be refilled with **BUCTRIL® + atrazine Herbicide**. DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE. Prior to refilling, inspect thoroughly for damage such as cracks, punctures, abrasions and damaged or worn out threads on closure devices. Do not refill or transport damaged or leaking containers. Check for leaks after refilling and before transportation. If the container is not being refilled, return it to the point of purchase.

## GENERAL INFORMATION

**BUCTRIL® + atrazine** contains the equivalent of 1 pound per gallon of octanoic acid ester of bromoxynil and 2 pounds per gallon of atrazine.

**BUCTRIL® + atrazine** is a selective postemergence herbicide for control of important broadleaf weeds infesting field corn, popcorn, and sorghum. Optimum weed control is obtained when **BUCTRIL® + atrazine** is applied to actively growing weed seedlings. **BUCTRIL® + atrazine** is primarily a contact herbicide, therefore thorough coverage of the weed seedlings is essential for optimum control. **BUCTRIL® + atrazine** has limited residual activity. However, dependent on weather conditions following application, subsequent flushes of weeds may not be controlled by the initial treatment.

Occasional transitory leaf burn may occur. The temporary leaf burn is similar to that seen with liquid fertilizer. Because the activity of **BUCTRIL® + atrazine** is not systemic, recovery of the crop is generally rapid with no lasting effect.

## MIXING, LOADING AND HANDLING INSTRUCTIONS

### 2.5 Gallon Containers

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

### 30 Gallon and Bulk Containers

If you will handle a total of 120 gallons or more of this product per day, you must use a mechanical transfer system for all mixing and loading operations. If this product is packaged in a 30 gallon drum, you must use a mechanical transfer system which terminates in a drip-free hard coupling which may be used only with a spray or mix tank which has been fitted with a compatible coupling. If you do not presently own or have access to a mechanical transfer system with this type of coupling, contact your dealer for information on how to obtain such a system or to modify your present system. When using a mechanical transfer system, do not remove or disconnect the pump or probe from the container until the container has been emptied and rinsed. The pump or probe system must be used to rinse the empty container and to transfer the rinsate directly to the mixing or spray tank.

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

**TANK MIXTURES:** **BUCTRIL® + atrazine** can be applied in tank mixture with many other herbicides and insecticides registered for use on approved crops. Refer to the specific crop section for rate recommendations and other restrictions. To apply **BUCTRIL® + atrazine** in mixture with another product, fill the spray tank 1/2 to 3/4 full with clean water and begin agitation. Add the **BUCTRIL® + atrazine** first and mix thoroughly. Add the other product to the tank while maintaining agitation and add water to the spray tank to the desired level. Always mix one product in water thoroughly before adding another product or compatibility problems may occur. Never mix two products together without first mixing in water.

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

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

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## SPRAYABLE LIQUID FERTILIZERS AND SPRAY ADDITIVES

**BUCTRIL® + atrazine** can be applied in combination with sprayable liquid fertilizer or spray additives such as surfactants or crop oil concentrate. When tankmixing with liquid fertilizer always add the fertilizer to the spray tank first and agitate thoroughly before adding **BUCTRIL® + atrazine**. Always predetermine the compatibility with liquid fertilizer by mixing small proportional quantities in advance. Agitation must be maintained during filling and application operations to ensure that **BUCTRIL® + atrazine** is evenly mixed with the fertilizer.

CAUTION: Fertilizers and spray additives can increase foliage leaf burn when applied with **BUCTRIL® + atrazine**. Do not apply fertilizers or spray additives with **BUCTRIL® + atrazine** if leaf burn is a major concern due to environmental conditions, crop or variety sensitivity to **BUCTRIL® + atrazine**.

## APPLICATION PROCEDURES

**BUCTRIL® + atrazine** can be applied to registered use areas by ground, and aerial application equipment. Do not apply this product through any type of irrigation system.

### GROUND APPLICATION

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

Select a spray volume and delivery system that will ensure thorough and uniform spray coverage. For optimum spray distribution and thorough coverage use of flat fan nozzles (maximum tip size 8008) with a spray pressure of 40-60 psi are recommended. Other nozzle types and lower spray pressures that produce coarse spray droplets may not provide adequate coverage of the weeds to ensure optimum control. Raindrop® nozzles and flood nozzles are not recommended as weed control with **BUCTRIL® + atrazine** may be reduced.

In general, a spray volume of 10 to 20 gallons per acre (GPA) is recommended for optimum spray coverage. A minimum of 5 GPA with minimum spray pressure of 50 psi and a maximum ground speed of 10 mph may be used with higher speed, low volume ground application if ground terrain, crop and weed density allow effective spray distribution. When using higher speed equipment, a maximum ground speed of 10 mph is suggested if field conditions cause excessive boom movement during application which results in poor spray coverage. Ground applications made when dry, dusty field conditions exist may provide reduced weed control in wheel track areas. Applications using less than 10 gallons per acre may result in reduced weed control.

When weed infestations are heavy, use of higher spray volumes and spray pressure will be helpful in obtaining uniform weed coverage. When corn or grain sorghum are large enough to interfere with the spray pattern, drop nozzles should be used to obtain uniform weed coverage. If you are unsure of the infestation level or size of crop, consult your local extension service.

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

### AERIAL APPLICATION

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

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

### CULTIVATION

When properly utilized, timely cultivations may aid overall weed control efforts as well as crop growth. However, cultivation BEFORE or DURING **BUCTRIL® + atrazine** applications may place target weeds under stress, resulting in erratic weed control. Whenever **BUCTRIL® + atrazine** 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.

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# GENERAL WEED LIST

Postemergence application of **BUCTRIL**® + **atrazine** Herbicide will control the following weeds when sprayed in the seedling stage.

## 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 elaeagnifolium</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> )
Lanceleaf sage	( <i>Salvia reflexa</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> )
Sunflower	( <i>Helianthus annuus</i> )
Wild Buckwheat	( <i>Polygonum convolvulus</i> )

## SUSCEPTIBLE BROADLEAF WEED SPECIES

Buffalobur	( <i>Solanum rostratum</i> )
Burcucumber	( <i>Sicyos angulatus</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 annus</i> )
Kochia	( <i>Kochia scoparia</i> )
London Rocket	( <i>Sisymbrium irio</i> )
Marestail	( <i>Conza canadensis</i> )
Mayweed	( <i>Anthemis cotula</i> )
Pitted morningglory	( <i>Ipomoea lacunosa</i> )
Pokeweed	( <i>Phytolacca americana</i> )
Prostrate Knotweed	( <i>Polygonum aviculare</i> )
Puncture Vine	( <i>Tribulus terrestris</i> )
Redroot Pigweed	( <i>Amaranthus retroflexus</i> )
Russian Thistle	( <i>Salsola kali</i> )
Spiny Pigweed	( <i>Amaranthus spinosus</i> )
Tall Morningglory	( <i>Ipomoea purpurea</i> )
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> )

## WEED SUPPRESSION

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

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

## BUCTRIL® + ATRAZINE RECOMMENDATIONS

Postemergence application to corn and sorghum must be made before corn and sorghum reaches 12 inches in height.

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PRODUCT	RATE	APPLICATION TIMING AND SPECIFIC COMMENTS	
		CROP	WEEDS
<b>BUCTRIL® + atrazine</b>	Preemergence 1 1/2 -3 pints/A	Apply to corn or sorghum before planting until just prior to crop emergence.	See APPLICATION RATE TABLE for list of weeds and corresponding maximum stage of growth that are controlled by <b>BUCTRIL® + atrazine Herbicide</b> at 1 1/2, 2 or 3 pints/A.
	1 1/2 - 2 pints/A	Apply to corn after emergence but before corn is 12 inches tall. Apply to sorghum after the 3 leaf stage but prior to the preboot stage (growth stage 4) or 12 inches in height, whichever comes first.	
	3 pints/A	Apply to corn between the 4 leaf stage but before corn is 12 inches tall. Apply to sorghum after the 4 leaf stage but prior to the preboot stage (growth stage 4) or 12 inches in height, whichever comes first.	

### APPLICATION RATE TABLE FOR CORN AND SORGHUM

WEED SPECIES	BUCTRIL® + ATRAZINE RATE					
	1 1/2 Pints/A		2 Pints/A		3 Pints/A	
	MAXIMUM LEAF STAGE (INCHES)	MAXIMUM WEED HEIGHT (INCHES)	MAXIMUM LEAF STAGE (INCHES)	MAXIMUM WEED HEIGHT (INCHES)	MAXIMUM LEAF STAGE (INCHES)	MAXIMUM WEED HEIGHT (INCHES)
When determining leaf stage, count all leaves except cotyledonary leaves.						
Black nightshade (Solanum nigrum)	4	4	6	6	6	6
Buffalobur (Solanum rostratum)	4	4	6	4	6	4
Burcucumber (Sicyos angulatus)	-	-	4	4	4	4
Common cocklebur (Xanthium pensylvanicum)	-	8	8	10	10	12
Common Lambsquarters (Chenopodium album)	-	6	-	10	-	12
Common ragweed (Ambrosia artemisiifolia)	6	4	8	6	8	6
Eastern black nightshade (Solanum ptycanthum)	4	4	6	6	6	6
Entireleaf morningglory (Ipomoea hederacea)	-	-	4	3	4	3
Giant ragweed (Ambrosia trifida)	4	6	6	8	6	8
Hemp sesbania (Sesbania exaltata)	4	4	4	4	4	4
Ivyleaf morningglory (Ipomoea hederacea)	3	3	4	4	4	4
Jimsonweed (Datura stramonium)	4	4	6	6	6	6
Kochia (Kochia scoparia)	-	2	-	2	-	4
Ladysthumb (Polygonum persicaria)	4	4	6	6	8	8
Marestail (Conza canadensis)	-	-	-	5	-	5
Malmleaf morningglory (Ipomoea wrightii)	-	-	4	3	4	3
Pennsylvania smartweed (Polygonum pensylvanicum)	4	4	6	6	8	8
Pitted morningglory (Ipomoea lacunosa)	3	3	4	4	4	4
Pokeweed (Phytolacca americana)	4	4	6	6	6	6
Prickly sida (Sida spinosa)	-	-	4	1	6	2
Puncturevine (Tribulus terrestris)	-	-	-	-	6	-
Purple morningglory (Ipomoea muricata)	-	-	2	3	2	3
Redroot pigweed <sup>1</sup> (Amaranthus retroflexus)	4	2	6	4	8	6
Small flower morningglory (Jacquemontia tamnifolia)	-	-	4	3	4	3
Smooth pigweed <sup>1</sup> (Amaranthus hybridus)	4	2	4	2	6	4
Spiny pigweed <sup>1</sup> (Amaranthus spinosus)	4	2	6	4	8	6
Sunflower (Helianthus annuus)	6	8	8	10	10	12
Tall morningglory (Ipomoea purpurea)	3	3	4	4	4	4
Tall waterhemp <sup>1</sup> (Amaranthus tuberculatus)	4	2	6	4	8	6
Toothed spurge (Euphorbia dentata)	-	-	4	4	4	4
Velvetleaf (Abutilon theophrasti)	4	3	6	5	6	6
Venice mallow (Hibiscus trionum)	4	2	4	2	4	2
Wild Buckwheat (Polygonum convolvulus)	6	8	8	10	10	12
Wild mustard (Sinapis arvensis)	4	4	4	4	4	4

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**WEED SUPPRESSED**

Canada Thistle <i>BUCTRIL</i> <sup>®</sup> + <i>atrazine Herbicide</i> suppresses the growth by burning down of top growth. Regrowth may occur.	( <i>Cirsium arvense</i> )	Not Recommended	8 Inch To Bud Stage	8 Inch To Bud Stage
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<sup>1</sup> If pigweeds (*Amaranthus* spp.) present in the field to be treated have been identified as triazine resistant biotypes, use *BUCTRIL*<sup>®</sup> + *atrazine Herbicide* only at 3 pints/A. Control of pigweeds in the high plains areas of Texas and Oklahoma may not be satisfactory with *BUCTRIL*<sup>®</sup> + *atrazine Herbicide*. Repeat applications may be necessary to achieve satisfactory control in these areas. Applications should be made when pigweeds do not exceed the 4 leaf stage and 2 inches in height.

**BUCTRIL<sup>®</sup> + ATRAZINE TANK MIXTURE RECOMMENDATIONS**

PRODUCT	RATE	APPLICATION TIMING AND SPECIFIC COMMENTS	
		CROP	WEEDS
<i>BUCTRIL</i> <sup>®</sup> + <i>atrazine</i> + Banvel <sup>®</sup> <sup>1</sup>	1 1/2 - 2 pints/A + 1/8 - 1/4 pint/A	Apply to field corn after emergence but before corn is 12 inches tall.  Apply to sorghum between the 3 leaf stage but prior to the preboot stage (growth stage 4) or 12 inches in height, whichever comes first. Use drop nozzles if crop is taller than 8 inches.	All weeds controlled by <i>BUCTRIL</i> <sup>®</sup> + <i>atrazine</i> at recommended rates of application plus improved control of pigweed. For field bindweed suppression, use 1/4 pint /A of Banvel <sup>®</sup> with <i>BUCTRIL</i> <sup>®</sup> + <i>atrazine Herbicide</i> .
	3 pints/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 but prior to the preboot stage (growth stage 4) or 12 inches in height, whichever comes first. Do not apply in the boot stage. Use drop nozzles if crop is taller than 8 inches.	

<sup>1</sup>Clarity<sup>®</sup> may be used at the same rates as Banvel<sup>®</sup> in a tank mixture on corn. These mixtures must be applied before corn exceeds 8 inches in height. Do not use Clarity<sup>®</sup> in a tank mixture with *BUCTRIL*<sup>®</sup> + *atrazine* on sorghum.

<i>BUCTRIL</i> <sup>®</sup> + <i>atrazine</i> + 2,4-D (such as Weedone <sup>®</sup> or Weedar <sup>®</sup> )	1 1/2 - 2 pints/A + 1/16 - 1/4 lb ai/A	Apply to field corn after emergence but before corn is 12 inches tall. Use drop nozzles if crop is taller than 8 inches.  Apply to sorghum between the 3 leaf stage but prior to the preboot stage (growth stage 4) or 12 inches in height, whichever comes first. Use drop nozzles if crop is taller than 8 inches.	All weeds controlled by <i>BUCTRIL</i> <sup>®</sup> + <i>atrazine</i> at recommended rates of application plus improved control of devils claw, kochia, field bindweed suppression, and Canada thistle burndown.
	3 pints/A + 1/16 - 1/4 lb ai/A	Apply to field corn between the 4 leaf stage but before the corn is 12 inches tall. Use drop nozzles if crop is taller than 8 inches.  Apply to sorghum after the 4 leaf stage but prior to the preboot stage (growth stage 4) or 12 inches in height, whichever comes first. Do not apply in the boot stage. Use drop nozzles if crop is taller than 8 inches.	

BUCTRIL® + ATRAZINE TANK MIXTURE RECOMMENDATIONS (cont'd.)

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PRODUCT	RATE	APPLICATION TIMING AND SPECIFIC COMMENTS	
		CROP	WEEDS
<b>BUCTRIL® + atrazine</b> + Stinger®	1 1/2-2 pints/A + 1/3-2/3 pints/A	Apply to field corn after emergence but before corn is 12 inches tall.	All weeds controlled by <b>BUCTRIL® + atrazine</b> 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 pints/A + 1/3-2/3 pint/A	Apply to field corn between the 4 leaf stage and before corn is 12 inches tall.	
<b>BUCTRIL® + atrazine</b> + Accent® + Non-ionic surfactant	1-1/2 to 2 pints/A + 2/3 oz/A + 1 qt/100 gal of water (0.25% v/v)	Apply to field corn preemergence or postemergence but before corn is 12 inches tall. <b>Do not apply this tank mix to sorghum.</b>	All broadleaf weeds controlled by <b>BUCTRIL® + atrazine</b> 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 <b>BUCTRIL® + atrazine</b> or Accent labels that are least restrictive.
	3 pints/A + 2/3 oz/A + † 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. <b>Do not apply this tank mix to sorghum.</b>	

**Restrictions and Precautions: Corn (Field and Pop) and Sorghum (Grain and Forage)**

- Postemergence applications of **BUCTRIL® + atrazine Herbicide** will not adequately 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 leaf burn.
- Do not use **BUCTRIL® + atrazine** on sorghum grown in sandy or loamy sand soils as excessive crop injury may occur.
- Seed corn producers should consult the respective seed corn company regarding tolerance of seed production inbred lines to **BUCTRIL® + atrazine Herbicide**.
- Do not cut crop for feed or graze within 45 days after application.
- A second application of **BUCTRIL® + atrazine Herbicide** may be applied if a new flush of weeds occur following the first application. The total cumulative rate should not exceed 4 pints/A per season.
- Do not use **BUCTRIL® + atrazine Herbicide** on any crop other than stated on this label.
- Application to grain sorghum growing under stress caused by minor element deficiency or to grain sorghum growing on highly calcareous soil may result in crop injury.
- Special care should be taken when using **BUCTRIL® + atrazine** and Banvel®, Clarity®, or 2,4-D tank mixtures to avoid off target drift to sensitive crops.
- Tank mixtures with 2,4-D, Banvel®, or Clarity® can cause stalk brittleness to field corn. Tank mixtures with 2,4-D and Banvel®, can cause stalk brittleness to sorghum. Winds or cultivation may cause breakage while crop is brittle.
- Do not apply **BUCTRIL® + atrazine** herbicide at any rate to sorghum which has reached the boot stage of growth as severe crop injury, including loss of crop yield may result.
- Postemergence application prior to the 3 leaf stage of corn may result in increased crop leaf burn.
- Do not apply **BUCTRIL® + atrazine** prior to the 3 leaf stage to seed corn inbreds or popcorn as excessive crop leaf burn may occur.
- Tank mixtures with Accent® + nonionic surfactant may result in increased crop leaf burn. Use of crop oil concentrate, nitrogen solution or other adjuvants with **BUCTRIL® + atrazine Herbicide** + Accent tank mixtures may result in a further increase in crop leaf burn.

**CROP ROTATION**

**BUCTRIL® + atrazine Herbicide** contains atrazine at 1/4 lb active per pint of product. Due to the residual activity of the atrazine, injury to crops planted in treated fields the following season may occur. Consult your local extension service on the potential for atrazine carryover injury to rotational crops for your soil types and weather conditions encountered following application. If in doubt about your specific situation, a soil test prior to planting rotation crops is recommended to determine the amount of atrazine remaining and its potential to cause crop injury to the intended crop.

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### ATRAZINE RATE RESTRICTIONS

Where there are state/local requirements regarding atrazine use (including lower maximum rates and/or higher set-backs) which are different from the label, the more restrictive /protective requirements apply.

#### Pre-Plant/Preemergence Use

This product contains atrazine at 0.25 lb ai per pint. If **BUCTRIL® + atrazine Herbicide** is applied preplant or preemergence with appropriately registered products containing atrazine, the following restrictions apply: On highly erodible soils where conservation tillage is utilized (≥ 30% plant residue), the maximum allowable atrazine rate per growing season is 2.0 lb ai/A. On highly erodible soils where plant residue is < 30%, the maximum allowable atrazine rate is 1.6 lb ai/A. On soils not highly erodible, the maximum allowable soil-applied atrazine rate is 2.0 lb ai/A.

#### Postemergence Use

This product contains atrazine at 0.25 lb ai per pint. Where there has been no previous atrazine soil application to the crop, if **BUCTRIL® + atrazine Herbicide** is applied postemergence with appropriately registered products containing atrazine, the total amount of atrazine applied cannot exceed 2.0 lb ai/A. Where a previous soil application of atrazine has been made to the crop, if **BUCTRIL® + atrazine Herbicide** is applied postemergence with appropriately registered products containing atrazine, the total amount of atrazine applied cannot exceed 2.5 lb ai/A per calendar year.

## LIMITED WARRANTY AND DISCLAIMER

The manufacturer warrants that this product conforms to the chemical description on the label; that this product is reasonably fit for the purposes set forth in the directions for use when it is used in accordance with such directions; 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 MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

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BUCTRIL® + atrazine Herbicide (PENDING) Submitted 8/14/97.