

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

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

SHAKE WELL BEFORE USING

PA Reg. No. 264-477

EPA Est. No. 264-MO-02

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

For EMERGENCY Information ONLY Call 24 Hours A Day 1-800-334-7577

PRECAUTIONARY STATEMENTS

CAUTION

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Harmful if swallowed, inhaled or absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist.

Users of this product are encouraged to participate in Rhone-Poulenc's educational program dealing with potential hazards and safer use of this product. Further information on this program can be obtained by contacting Rhone-Poulenc Ag Company at 1-800-334-9745.

When mixing and loading this product, applying or cleaning, adjusting or repairing equipment, protective clothing must be worn. The protective clothing should consist of nitrile gloves, long-sleeved clothing, long pants and goggles or face shield. Contaminated clothing must be removed and washed prior to reuse. Do not wash contaminated clothing with household clothing.

If treating more than 300 acres per day, this product must be applied with a mechanical transfer system. See Mixing, Loading and Handling Directions for more details.

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 IN EYES: Flush with plenty of water. Get medical if irritation persists.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to wildlife and fish. Use with care when applying to areas frequented by wildlife or adjacent to any body

of water. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from target areas. Do not contaminate water by cleaning of equipment or disposal of wastes.

PHYSICAL AND CHEMICAL HAZARDS

Do not use or store near heat or open flame.

GENERAL INFORMATION

BUCTRIL® + Atrazine Herbicide is a selective post-emergence product for control of important broadleaf weeds infesting field corn, popcorn and grain sorghum grown for grains, seed or stlage under conventional, minimum tillage, ridge tillage or no-till systems. The recommended rates of BUCTRIL® + Atrazine Herbicide pre-mix flowable herbicide are 1 1/2, 2, and 3 pints/A. Each pint of BUCTRIL® Herbicide + Atrazine contains the equivalent of 1/2 pint of BUCTRIL® Herbicide and 1/4 pound of Atrazine.

BUCTRIL® + Atrazine Herbicide controls weeds primarily by contact action, therefore, thorough coverage of the weeds is essential for maximum control. Weeds should be actively growing and not stressed from lack of moisture or low temperatures before and at time of application. BUCTRIL® + Atrazine Herbicide also provides some residual control of germinating seedlings. When environmental conditions are quite cool and cloudy or very hot and humid, some leaf burn may occur on corn or grain sorghum. The crop rapidly outgrows this condition and new growth is unaffected. To ensure maximum crop safety and weed control, follow all cautions and limitations on this label.

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 Rhone-Poulenc Ag Company's Educational Program.

30 Gallon and Bulk Containers

If treating more than 300 acres per day, this product must be applied with a mechanical transfer system. When treating more than 300 acres per day it is recommended that either 30 gallon or bulk containers be used. Transfer from these containers to the mixing or spray tank should be accomplished using pumps or transfer probes. 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 is to be used to rinse the empty container and to transfer the rinsate directly to the mixing or spray tank.

Fill the spray tank 1/2 to 3/4 full with clean water. Begin agitation and add the recommended amount of BUCTRIL® + Atrazine Herbicide. Add water to the spray tank to the desired level. Maintain sufficient agitation to ensure a uniform spray mixture during application. If spray mixture is allowed to remain without agitation for even a short period of time, be sure to agitate until uniformly mixed before application.

APPLICATION PROCEDURES

Ground Applications:

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. Use flat fan nozzles spaced a maximum of 20 inches apart and a minimum of 10 gallons of spray volume per acre with a minimum spray pressure of 30 psi at the nozzle tips. Other nozzle types may not provide adequate coverage of the weeds to ensure optimum control. When weed infestations are heavy, use of a higher spray volume and spray pressure will be helpful to ensure uniform coverage. When corn is large enough to interfere with the spray pattern, drop nozzles should be used to obtain uniform coverage of the weeds.

Aerial Application:

Use a minimum of 5 gallons of spray volume per acre using diaphragm type nozzles that produce cone or fan spray patterns with a maximum spray pressure of 40 psi at the nozzle tips. Nozzles should be located no farther than 3/4 the distance from the center of the aircraft to the end of the wing rotor. Nozzles should be oriented at an angle between straight down and 70° straight back.

The aircraft should discharge the spray a maximum of 10 feet above the crop. To minimize drift, do not apply during periods of gusty winds or when wind exceeds 5 mph.

AUTOMATED SPRINKLER IRRIGATION SYSTEMS

BUCTRIL® + Atrazine Herbicide at 3 pts/A can be applied through overhead sprinkler irrigation systems to field corn, popcorn, and grain sorghum.

Apply BUCTRIL® + Atrazine Herbicide through sprinkler including center pivot, lateral move, side (wheel) roll, solid set or hand move irrigation systems only. Do not apply this product through any other type of irrigation system.

SPECIFIC REQUIREMENTS FOR APPLICATION THROUGH AUTOMATED SPRINKLER IRRIGATION SYSTEMS.

1. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

2. The pesticide injection pipeline must contain a functional, automatic quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump), effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.
8. Agitation is recommended in the pesticide supply tank when applying the BUCTRIL® Herbicide + Atrazine.
9. BUCTRIL® Herbicide + Atrazine should be applied continuously for the duration of the water application with center pivot and continuous lateral move systems. Application of BUCTRIL® + Atrazine should be made during the last 30 to 45 minutes of the irrigation set with other overhead sprinkler system.
10. For best performance, set the sprinkler system to deliver approximately 0.5 inch or less of water per acre.
11. Remove scale, pesticide residues and other foreign matter from the supply tank and entire injector system. Flush with clean water.
12. If BUCTRIL® + Atrazine Herbicide is diluted in the supply tank, fill the tank with half of the water amount desired, add the BUCTRIL® + Atrazine and then add remaining water amount with agitation.
13. Start the sprinklers and then inject BUCTRIL® + Atrazine Herbicide into the irrigation line. BUCTRIL® + Atrazine should be injected with a positive displacement pump into the main line at least 8 feet ahead of a right angle turn to ensure adequate mixing. Refer to the BUCTRIL® + Atrazine Herbicide label for detailed information on application rates and timings.

CHEMIGATION USER PRECAUTIONS

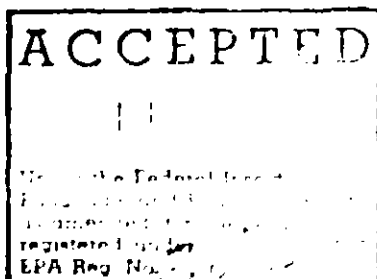
Application of more than 0.5 inch/acre of irrigation water may result in decreased product performance on certain soils.

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

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

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

Do not connect an irrigation system used for pesticide application to a public water system.



If you have questions about calibration, you should contact State Extension Service Specialists, equipment manufacturers or other experts.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

BUCTRIL® + ATRAZINE HERBICIDE RECOMMENDATIONS

Postemergence applications of BUCTRIL® + Atrazine Herbicide at 1 1/2, 2, and 3 pints/A can be applied to field corn, popcorn, and grain sorghum using the following use directions. Refer to APPLICATION RATE TABLE for weeds controlled.

APPLICATION RATE TABLE FOR CORN AND GRAIN 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	MAXIMUM WEED HEIGHT
Black nightshade (Solanum nigrum)	4	4	6	6	6	6
Buffalober (Solanum rostratum)	4	4	6	4	6	4
Common cocklebur (Xanthium pensylvanicum)	6	8	8	10	10	12
Common Lamb's-quarters (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
Fiveleaf morningglory (Ipomoea hederacea)		-	4	3	4	3
Giant ragweed (Ambrosia trifida)	4	4	6	6	6	6
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
Lady's-thumb (Polygonum persicaria)	4	4	6	6	8	8
Palm-leaf morningglory (Ipomoea wrightii)		-	4	3	4	3
Pennsylvania smartweed (Polygonum pensylvanicum)	4	4	6	6	8	8
Picky (Sida spinosa)		-	4	1	6	2
Punctate (Tribulus terrestris)		-	-	-	6	-
Purple morningglory (Ipomoea muncata)		-	2	3	2	3
Retroflex pigweed (Amaranthus retroflexus)	4	2	6	4	6	6
Smooth pigweed (Amaranthus hybridus)	4	2	4	2	6	4
Smoothflower morningglory (Jacquemontia tamnifolia)		-	4	3	4	3
Spiny pigweed (Amaranthus spinosus)	4	2	6	4	6	6
Sunflower (Helianthus annuus)	6	8	8	10	10	12
Tail morningglory (Ipomoea purpurea)	3	3	4	4	4	4
Tail-walkerhemp (Amaranthus tuberculatus)	4	2	6	4	8	6
Violetleaf (Abutilon theophrasti)	4	3	6	5	8	6
Violet mallow (Hibiscus trionum)	4	2	4	2	4	2
Wild Buckwheat (Polygonum convolvulus)	6	8	8	10	10	12
Wild mustard (Brassica kaber)	4	4	4	4	4	4

WEED SUPPRESSED

Canada Thistle (Cirsium arvense)	Not Recommended	8 Inch To Bud Stage	8 Inch To Bud Stage
BUCTRIL® Herbicide + Atrazine suppresses the growth by burning down of top growth. Regrowth may occur.			

¹If pigweeds (Amaranthus spp.) present in the field to be treated have been identified as atrazine resistant biotypes, use BUCTRIL® + Atrazine Herbicide only at 3 pints/A.

Applications should be made when pigweeds do not exceed the 4 leaf stage and 2 inches in height.

FIELD CORN AND POPCORN
(Ground And Aerial Applications)
BUCTRIL® + ATRAZINE HERBICIDE RECOMMENDATIONS

TIMING OF APPLICATION

PRODUCT	RATE	CROP	WEED
BUCTRIL® + Atrazine	1 1/2 Pints/A	Apply to corn from the 3 leaf stage to the 6 leaf stage, but before corn is 30 inches tall. Make up to 2 applications per season.	See APPLICATION RATE TABLE for list of weeds and corresponding maximum stage of growth that are controlled by BUCTRIL® Herbicide + Atrazine at 1 1/2 pints/A.
	2 Pints/A	Apply to corn from the 3 leaf stage to the 8 leaf stage, but before corn is 30 inches tall. Make up to 2 applications per season.	See APPLICATION RATE TABLE for list of weeds and corresponding maximum stage of growth that are controlled by BUCTRIL® + Atrazine Herbicide at 2 pints/A.
	3 Pints/A	Apply to corn from the 4 leaf stage to the 8 leaf stage, but before corn is 30 inches tall. Make up to 2 applications per season.	See APPLICATION RATE TABLE for list of weeds and corresponding maximum stage of growth that are controlled by BUCTRIL® + Atrazine Herbicide at 3 pints/A.

GRAIN SORGHUM
(Ground And Aerial Applications)

BUCTRIL® + ATRAZINE HERBICIDE RECOMMENDATIONS

TIMING OF APPLICATION

PRODUCT	RATE	CROP	WEED
BUCTRIL® + Atrazine	1 1/2 Pints/A	Apply to grain sorghum from the 2 leaf stage to the 10 leaf stage, not to exceed 10 inches in height. Make up to 2 applications per season.	See APPLICATION RATE TABLE for list of weeds and corresponding maximum stage of growth that are controlled by BUCTRIL® + Atrazine Herbicide at 1 1/2 pints/A.
	2 Pints/A	Apply to grain sorghum from the 3 leaf stage to the 10 leaf stage, not to exceed 10 inches in height. Make up to 2 applications per season.	See APPLICATION RATE TABLE for list of weeds and corresponding maximum stage of growth that are controlled by BUCTRIL® + Atrazine Herbicide at 2 pints/A.
	3 Pints/A	Apply to grain sorghum from the 4 leaf stage to the 10 leaf stage, not to exceed 10 inches in height. Make up to 2 applications per season.	See APPLICATION RATE TABLE for list of weeds and corresponding maximum stage of growth that are controlled by BUCTRIL® + Atrazine Herbicide at 3 pints/A.

RESTRICTIONS AND LIMITATIONS

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.

Do not add a spray additive, or mix with liquid fertilizers because excessive crop injury may occur.

Do not apply BUCTRIL® + Atrazine Herbicide if heavy rainfall is expected within 1 hour of application.

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 30 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 6 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.

CROP ROTATION (Field Corn, Popcorn, And Grain Sorghum)

Do not rotate to any crop except field corn, popcorn, or grain sorghum until the following year, or injury to the rotated crop may occur.

If BUCTRIL® + Atrazine Herbicide is applied after mid-June, do not rotate with crops other than field corn, popcorn, or grain sorghum the next year, or injury to the rotated crop may occur.

In the High Plains and Intermountain areas of the West where rainfall is sparse and erratic or where irrigation is required, use only when field corn, popcorn, or grain sorghum is grown the season.

following year or when a crop of untreated field corn, popcorn, or grain sorghum is to precede other rotational crops.

Following harvest of grain sorghum, plow (moldboard or disk plow) and thoroughly till soil in fall or spring to minimize crop injury to spring-seeded rotational crops.

Injury may occur to soybeans planted the year following application on soils having a calcareous surface layer.

Do not plant sugar beets, tobacco, vegetables (including dry beans), spring-seeded small grains, or small seeded legumes and grasses the year following application, or crop injury may occur.

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 32° 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

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.

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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Rhône-Poulenc Ag Company
P O Box 12014, 2 T.W. Alexander Drive
Research Triangle Park, North Carolina 27709

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