264-477





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

APR - 7 2010

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Mr. Prasad Rao Bayer Cropscience 2 T.W. Alexander Drive, PO Box 12014 Research Triangle Park, NC 27709

Subject:

Buctril + Atrazine Herbicide

EPA Registration Number 264-477 Submission dated January 26, 2010

Dear Mr. Rao:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act as amended is acceptable, provided you make the following changes before you release the product for shipment.

- 1. Remove "Wash thoroughly with soap and water after handling......using tobacco, or using the toilet" from the Precautionary Statements as these statements are found in the User Safety Recommendations Section.
- 2. Add the statement "Use of this product in certain portions of California, Oregon, and Washington is subject to the January 22, 2004 Order for injunctive relief in <u>Washington Toxics Coalition</u>, et.al. v. EP, C01-0132C, (W.D. WA). For further information, please refer to <a href="http://www.epa.gov/espp/litstatus/wtc/index.htm">http://www.epa.gov/espp/litstatus/wtc/index.htm</a>" prior to the Agricultural Use Requirements box.
- 3. Revise "It is strongly recommended that special care be taken..." to "Special care must be taken..." on page 5
- 4. Revise the heading GENERAL INFORMATION to USE INFORMATION
- 5. Revise "recommended amount" to "specified amount" on page 5
- 6. Revise "should" to "must" in the subsections Sensitive Areas, Application Height, Wind, and Temperature Inversions on page 7. Also revise Where states have more stringent regulations, they should be observed" to "Where states have more stringent regulations, they must be observed."
- 7. Remove "GENERAL" from the heading "GENERAL WEED LIST" on page 8
- 8. Revise "Recommendations" to "Directions" on page 9, 11, 12
- 9. Revise "recommended rates" to "specified rates" wherever it occurs on pages 11, 12
- 10. Remove "General" from the heading General Precautions and Restrictions on page 12
- 11. Revise "should" to "must" in the statement "Special care should be taken ..." on page 12

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Submit one (1) copy of final printed labeling incorporating the above changes before you release the product for shipment. Amended labeling will supercede all previously accepted ones. A stamped copy of labeling is enclosed for your records. If you have any questions, please contact Hope Johnson at 703-305-5410.

Sincerely,

James A. Tompkir Product Manager 25

Herbicide Branch

Registration Division (7505P)

## 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.

\*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

## STOP - Read the label before use KEEP OUT OF REACH OF CHILDREN CAUTION

KEN APR - 7 2010

SHAKE WELL BEFORE USING

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

ACCEPTED

with COMMENTS in EPA Letter Dated

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.)

264-477

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

#### **FIRST AID**

Do not induce vomiting unless told by a poison control center or doctor.  Do not give any liquid to the person.  Do not give anything by mouth to an unconscious person.  Hold eye open and rinse slowly and gently with water for 15-20 minutes.  Remove contact lenses, if present, after the first 5 minutes, then continue ri@śifi@.*  Call a poison control center or doctor for treatment advice.	( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (
Do not give anything by mouth to an unconscious person.  Hold eye open and rinse slowly and gently with water for 15-20 minutes.  Remove contact lenses, if present, after the first 5 minutes, then continue rigisling.	(
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Call a poison control center or doctor for treatment advice	
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Take off contaminated clothing.	
Rinse skin immediately with plenty of water for 15-20 minutes.	€ <b>€</b>
Call a poison control center or doctor for treatment advice.	(,
Move person to fresh air.	ς ι ς ο ς ς ς
If person is not breathing, call 911 or an ambulance, then give artificial respiration, mouth, if possible.	preferably by mouth-to-
_	Call a poison control center or doctor for treatment advice.  Move person to fresh air.  If person is not breathing, call 911 or an ambulance, then give artificial respiration,

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

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

NOTE TO PHYSICIAN: This product may pose an aspiration pneumonia hazard. Contains petroleum distillate.

#### PRECAUTIONARY STATEMENTS

## HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Prolonged or frequent repeated skin contact may cause allergic reaction in some individuals. Wash thoroughly with soap and water after handling. Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

#### 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.

Mixers, loaders, applicators, flaggers, and other handlers must wear long-sleeved shirt and long pants, chemical resistant gloves such as barrier laminate, butyl rubber, nitrile rubber, or viton gloves, shoes plus socks, and Chemical-resistant apron, when mixing/loading, cleaning up spills, or cleaning equipment, or otherwise exposed to the concentrate.

See engineering controls for additional requirements.

#### **USER SAFETY REQUIREMENTS**

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

#### **ENGINEERING CONTROLS**

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)].

Pilots must use an enclosed cockpit in a manner that is consistent with the WPS for Agricultural Pesticides [40 CFR170.240(d)(6)]. Pilots must wear the PPE required on this labeling for applicators, however, they need not wear chemical-resistant gloves when using an enclosed cockpit.

Flaggers supporting aerial applications must use an enclosed cab that meets the definition on the Worker Protection Standard for Agricultural Pesticides [ 40 CFR 170.240 (d)(5)] for dermal protection.

When applicators use enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(5), the handler PPE requirements may be reduced or modified as specified in the WPS.

Mixers and loaders supporting aerial applications at a rate greater than 3 lbs ai/A must use a closed system that meets the requirements for dermal protection listed in the Worker Protection Standard (WPS) for Agricultural Pesticides [40 CFR 170.240(d)(4)] and must: wear the personal protective equipment required for mixers and loaders, -wear protective eyewear if the system operates under pressure, and -be provided and have immediately available for use in an emergency, such as a spill or equipment breakdown: chemical resistant footwear.

#### **User Safety Recommendations**

#### **User Should:**

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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 - Restricted Use**

Atrazine can travel (seep or leach) through soil and can enter ground water which may be used as drinking water. Atrazine has been found in ground water. Users are advised not to apply atrazine to sand and loamy sand soils where the water table (ground water) is close to the surface and where these soils are very permeable; i.e., well-drained. Your local agricultural agencies can provide further information on the type of soil in your area and the location of ground water.

Product must not be mixed or loaded within 50 feet of intermittent streams and rivers, natural or impounded lakes and reservoirs. Product must not be applied within 66 feet of points where field surface water runoff enters perennial or intermittent streams and rivers or within 200 feet of natural or impounded lakes and reservoirs. If this product is applied to highly erodible land, the 66 foot buffer or setback from runoff entry points must be planted to crop, or seeded with grass or other suitable crop.

Product must not be mixed or loaded, or used within 50 feet of all wells, including abandoned wells, drainage wells, and sink holes. Operations that involve mixing, loading, rinsing, or washing of this product into or from pesticide handling or application equipment or containers within 50 ft. of any well are prohibited, unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or wash water, and rain water that may fall on the pad. Surface water shall not be allowed to either flow over or form the pad which means the pad must be self-contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain at a minimum 110% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above-specified minimum containment capacities do not apply to vehicles when delivering pesticide to the mixing/loading sites.

Additional State imposed requirements regarding well-head setbacks and operational area containment must be observed.

One of the following restrictions must be used in applying atrazine to tile-outletted fields containing standpipes:

- 1. Do not apply within 66 feet of standpipes in tile-outletted fields.
- 2. Apply this product to the entire tile-outletted field and immediately incorporate it to a depth of 2-3 inches in the entire field.
- Apply this product to the entire tile-outletted field under a no-till practice only when a high crop residue management practice is practiced. High crop residue management is described as a crop management practice where little or no crop residue is removed from the field during and after crop harvest.

This pesticide is toxic to aquatic invertebrates. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from target areas. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when cleaning equipment or disposing of equipment wash waters.

#### PHYSICAL AND CHEMICAL HAZARDS

Combustible. 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.

ANY USE OF THIS PRODUCT IN AN AREA WHERE USE IS PROHIBITED IS A VIOLATION OF FEDERAL LAW. Before using this product, you must consult the Atrazine Watershed Information Center (AWIC) to determine whether the use of this product is prohibited in your watershed. AWIC can be accessed through [www.atrazine-watershed.info], or [1-866-365-3014]. If use of this product is prohibited in your watershed, you may return this product to your point of purchase or contact Bayer CropScience for a refund.

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 24 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, shoes plus socks and protective eyewear.

#### STORAGE AND DISPOSAL

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

#### **PESTICIDE STORAGE**

Do not store near fertilizers or seeds. Store at temperatures above 3° F. If 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

#### Rigid, Non-refillable containers small enough to shake (i.e., with capacities equal to or less than 5 gallons)

Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Once container is rinsed, offer for recycling if available or puncture and dispose of in a sanitary landfill or if allowed by State and local authorities by burning. If burned stay out of smoke.

Rigid Non-refillable containers that are too large to shake (i.e., with capacities greater than 5 gallons or 50 lbs)

#### Non-refillable Containers

Non-refillable containers - Do not reuse or refill this container. Refer to Bottom Discharge IBC or Top Discharge IBC, Drums, Kegs information as follows.

Bottom Discharge IBC (e.g. - Schuetz Caged IBC or Snyder Square Stackable)

Pressure rinsing the container before final disposal is the responsibility of the person disposing of the container. To pressure rinse the container before final disposal, empty the remaining contents from the IBC into application equipment or mix tank. Raise the bottom of the IBC by 1.5 inches on the side which is opposite of the bottom discharge valve to promote more complete product removal. Completely remove the top lid of the IBC. Use water pressurized to at least 40 PSI to rinse all interior portions. Continuously pump or drain rinsate into application equipment or rinsate collection system while pressure rinsing. Continue pressure rinsing for 2 minutes or until rinsate becomes clear. Replace the lid and close bottom valve.

Top Discharge IBC, Drums, Kegs (e.g.-Snyder 120 Next Gen, Bonar B120, Drums, Kegs).

Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. To triple rinse the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container at least 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Rinse all interior surfaces. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this procedure two more times.

Once container is rinsed, offer for recycling if available or puncture and dispose of in a sanitary landfill.

#### **Refillable Containers**

Refillable container — Refer to Bottom Discharge IBC or Top Discharge IBC, Drums, Kegs information as follows. Refill this container with pesticide only. Do not reuse this container for any other purpose. Contact your Ag retailer or Bayer CropScience for container return, disposal and recycling information.

Bottom Discharge IBC (e.g. - Schuetz Caged IBC or Snyder Square Stackable)

Pressure rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To pressure rinse the container before final disposal, empty the remaining contents from the IBC into application equipment or mix tank. Raise the bottom of the IBC by 1.5 inches on the side which is opposite of the bottom discharge valve to promote more complete product removal. Completely remove the top lid of the IBC. Use water pressurized to at least 40 PSI to rinse all interior portions. Continuously pump or drain rinsate into application equipment or rinsate collection system while pressure rinsing. Continue pressure rinsing for 2 minutes or until rinsate becomes clear. Replace the lid and close bottom valve.

Top Discharge IBC, Drums, Kegs (e.g.- Snyder 120 Next Gen, Bonar B120, Drums, Kegs).

Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To triple rinse the containers before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container at least 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Rinse all interior surfaces. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this procedure two more times.

Once container is rinsed, offer for recycling if available or puncture and dispose of in a sanitary landfill.

#### **Refillable Containers**

End users are authorized to remove tamper evident cables as required to remove the product from the container <u>unless</u> the container is equipped with one way valves and refilling or returning is planned. If this is the case, end users are not authorized to remove tamper evident cables, one way valves or clean container. See Container Disposal instructions under Storage and Disposal.

#### **GENERAL INFORMATION**

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

BUCTRIL® + atrazine Herbicide 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 Herbicide 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 Herbicide 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 Bayer CropScience'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 Herbicide. 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 Herbicide can be tankmixed with other pesticide products provided that these other products are registered for use on the crop/use site to be treated. The tank mix must be used in accordance with the more restrictive pesticide label limitations and precautions. No label dosage rates may be exceeded. BUCTRIL® + Atrazine Herbicide cannot be mixed with any product containing a label prohibition against such mixing. Refer to the specific crop section for rate recommendations and other restrictions. To apply 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.

#### SPRAYABLE LIQUID FERTILIZERS AND SPRAY ADDITIVES

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

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

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

#### **AERIAL APPLICATION**

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

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

#### **CULTIVATION**

When properly utilized, timely cultivations may aid overall weed control efforts as well as crop growth. However, cultivation BEFORE or DURING BUCTRIL® + atrazine Herbicide 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.

#### **SPRAY DRIFT**

SENSITIVE AREAS: The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitats for threatened or endangered species, non-target crops) is minimal (e.g., when wind is blowing away from the sensitive areas).

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

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

- 1. The distance of the outer most nozzles on the boom must not exceed % the length of the wingspan or rotor.
- 2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

Where states have more stringent regulations, they should be observed. The applicator should be familiar with and take into account the information covered in the <u>Aerial Drift Reduction Advisory Information</u>.

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

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversions below).

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

- Volume Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- Number of nozzles Use the minimum number of nozzles that provide uniform coverage.
- Nozzle Orientation Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other
  orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift
  potential.
- Nozzle Type Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles
  produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets
  and the lowest drift.

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

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

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

Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

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

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

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

Drift potential is lowest between wind speeds of 2 - 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. **NOTE:** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

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

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

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

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated

cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

#### **GENERAL WEED LIST**

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

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

SUSCEPTIBLE BROADLEAF WEED SPECIES (Solanum rostratum) Buffalobur Burcucumber (Sicyos angulatus) (Senecio vulgaris) Common Groundsel (Ambrosia artemisiifolia) Common ragweed Corn Chamomile (Anthemis arvensis) (Lithospermum arvense) Corn Gromwell Cow Cockle (Saponaria vaccaria) (Ambrosia trifida) **Giant Ragweed** Hemp Sesbania (Sesbania exaltata) (Ipomoea hederacea) lvyleaf morningglory Knawel (Scleranthus annus) Kochia (Kochia scoparia) (Sisymbrium irio) London Rocket Marestail (Conza canadensis) Mayweed (Anthemis cotula) Pitted morningglory (Ipomaea lacunosa) (Phytolacca americana) Pokeweed **Prostrate Knotweed** (Polygonum aviculare) (Tribulus terrestris) Puncture Vine Redroot Pigweed (Amaranthus retroflexus) Russian Thistle (Salsola kali) (Amaranthus spinosus) Spiny Pigweed Tall Morningglory (Ipomoea purpurea) Tall Waterhemp (Amaranthus tuberculatus) (Sisymbrium altissimum) Tumble mustard (Abutilon theophrasti) Velvetleaf (Hibiscus trionum) Venice Mallow (Sinapsis arvensis) Wild Mustard Wild Radish (Raphanus raphanistrum)

#### **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.

		APPLICATION TIMING AND SPECIFIC COMMENTS		
PRODUCT	RATE	CROP	WEEDS	
BUCTRIL® + atrazine	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 BUCTRIL® + atrazine Herbicide 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.	۸.	
		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	
When determining leaf stage, count all leaves except cotyledonary leaves.		MAXIMUM LEAF STAGE (INCHES)	MAXIMUM WEED HEIGHT (INCHES)	MAXIMUM LEAF STAGE (INCHES)	MAXIMUM WEED HEIGHT (INCHES)	MAXIMUM LEAF STAGE (INCHES)	MAXIMUM WEED HEIGHT (INCHES)
Black nightshade	(Solanum nigrum)	4	6	6	6	6	6
Buffalobur	(Solanum rostratum)	4	4	6	4	6	4
Burcucumber	(Sicyos angulatus)	-	-	4	4	4	4
Common cocklebur	(Xanthium pensylvanicum)	6	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 hedevacea)	-	-	4	3	4	3
Giant ragweed	(Ambrosia trifida)	4	6	6	8	6	8
Hemp sesbania	(Sesbania exaltata)	4	4	1 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	-	8 5
Palmleaf 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	(Tibulus terrestris)	-	-	_	-	6	-
Purple morningglory	(Ipomoea muricata)	- 1	_	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	1 4	4	4
Tall waterhemp <sup>1</sup>	(Amaranthus tuberculatus)	4	2	6	4	8	6
Toothed spurge	(Euphorbia dentata)	, <u> </u>	_	4	4	4	4
Velvetleaf	(Abutilon theophrasti)	4	3	6	5	8	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
vviiu mustaru	(omapis arvensis)	<del>-</del>	4	L	<del></del>	<del>**</del>	4

# Canada Thistle BUCTRIL® + atrazine Herbicide suppresses the growth by burning down of top growth. Regrowth may occur.

If pigweeds (Amaranthus spp.) present in the field to be treated have been identified as triazine resistant biotypes, use BUCTRIL® + 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® + 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® + ATRAZINE TANK MIXTURE RECOMMENDATIONS

		APPLICATION TIMING AND SPECIFIC COMMENTS		
PRODUCT	RATE	CROP	WEEDS	
BUCTRIL® + atrazine + Banvel® 1	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 BUCTRIL® + atrazine at recommended rates of application plus improved control of pigweed. For field bindweed suppression, use 1/4 pint /A of Banvel® with BUCTRIL® + atrazine Herbicide.	
	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.

BUCTRIL® + atrazine + 2,4-D (such as Weedone® or Weedar®)	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 BUCTRIL® + atrazine 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.)

		APPLICATION TIMING AND SPECIFIC COMMENTS		
PRODUCT	RATE	CROP	WEEDS	
BUCTRIL <sup>®</sup> + atrazine + Stinger <sup>™</sup>	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 BUCTRIL® + atrazine 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.		
BUCTRIL® + atrazine + 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. Do not apply this tank mix to sorghum.	All broadleaf weeds controlled by BUCTRIL® + atrazine plus grasses and broadleaves controlled by Accent For optimum weed control, treat wher broadleaves and grasses are in the recommended growth stage	
	3 pints/A + 2/3 oz/A + 1 qt/100 gal of water (0.25% v/v)	Apply to field corn between the 4 leaf stage of crop growth but before the corn is 12 inches tall. Do not apply this tank mix to sorghum.	or size. Follow the weed size guideline on the BUCTRIL® + atrazine or Accent labels that are least restrictive.	

#### GENERAL PRECAUTIONS AND RESTRICTIONS: 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 corn crop for feed or graze within 60 days after application.
- Do not cut sorghum crop for feed or graze within 60 days following a preemergence application or 45 days following a
  postemergence 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 must 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
  calcereous 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 Herbicide 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 + Accent tank mixtures may result in a further increase in crop leaf burn.
- 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.
- AERIAL APPLICATION: Aerial application is prohibited within 300 feet of residential areas (e.g., homes, schools, playgrounds, shopping areas, hospitals, etc.) Do not apply with backpack or hand-held application equipment. Apply to non-residential turf only. Do not apply to residential, playground, or schoolyard turf.

#### **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 extention 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.

#### 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. 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.

#### 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 (as determined by the Natural Resource Conservation Service) 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 (as determined by the Natural Resource Conservation Service) 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.

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#### **IMPORTANT: READ BEFORE USE**

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

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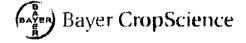
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Produced for



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BUCTRIL® + atrazine Herbicide (PENDING) Submitted 12/03/09