



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

AUG 21 2000

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

Brian A. Dehart
Bayer Corporation
P.O. Box 4913
Kansas City, MO 64120-0013

Dear Mr. Dehart:

Subject: Increased Application Rate
Axiom AT
EPA Registration No. 3125-523
Your Submission Dated June 30, 2000

The amendment referred to above, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable provided that you:

1. Submit/cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) or 4(a) when the Agency requires all registrants of similar products to submit such data.

2. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

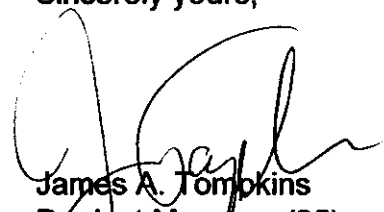
- The Agency has recently revised its recommended First Aid statements for pesticide products (refer to PR Notice 2000-3: First Aid Statements on Pesticide Product Labels). The new statements were developed as part of the Consumer Labeling Initiative in close cooperation with poison control center personnel and other medical experts. While it is not mandatory that you revise your label at this time, you are strongly encouraged to substitute the revised statements (see below) for those statements currently on the label at your next label printing. If you wish to receive a stamped copy of the label with the revised First Aid statements, submit an application for amendment (EPA Form 8570-1) and 4 copies of draft labeling for our review.

FIRST AID	
If swallowed:	<ul style="list-style-type: none">• Call poison control center or doctor immediately for treatment advice.• Have person sip a glass of water if able to swallow.• Do not induce vomiting unless told to by a poison control center or doctor.• Do not give anything by mouth to an unconscious person.
If in eyes:	<ul style="list-style-type: none">• 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 rinsing.• Call a poison control center or doctor for treatment advice.
If on skin or clothing:	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice.
If inhaled:	<ul style="list-style-type: none">• Move person to fresh air.• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.• Call a poison control center or doctor for further treatment advice.
Have the product container or label with you when calling a poison control center or doctor or going for treatment.	

3. Submit one (1) copy of your final printed labeling before you release the product for shipment. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

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

Sincerely yours,



James A. Tompkins
Product Manager (25)
Herbicide Branch
Registration Division (7505C)

Enclosure

RESTRICTED USE PESTICIDE

Ground and Surface Water Concerns

For retail sale to and use only by certified applicators or persons under their direct supervision, and only for those uses covered by the certified applicator's certification. This product is a restricted use herbicide due to **AGGREGATED** surface water concerns.

with COMMENTS
In EPA Letter Dated:

Axiom™ AT

revised AUG 21 2000

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

DF Herbicide

3125-523

ACTIVE INGREDIENTS:

- Flufenacet:
N-(4-Fluorophenyl)-N-(1-methylethyl)-2-
[[5-(trifluoromethyl)-1,3,4-thiadiazol-2-yl]-
oxy]acetamide.....19.6%
- Metribuzin:
4-amino-6-(1,1-dimethylethyl)-3-
(methylthio)-1,2,4-triazin-5(4H)-one.....4.9%
- Atrazine:
6-chloro-N-ethyl-N-(1-methylethyl)-
1,3,5-triazine-2,4-diamine.....50.5%

INERT INGREDIENTS:.....25.0%
100.0%

EPA Reg. No. 3125-523

EPA Est. 3125-MO-1

Net Weight: ____ Pounds

STOP - Read the label before use.
Keep out of reach of children.

CAUTION

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed. Causes moderate eye irritation. Prolonged or frequently repeated skin contact may cause allergic skin reactions in some individuals. Avoid contact with skin, eyes, or clothing.

Personal Protective Equipment:

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

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.

User Safety Recommendations:

User should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing 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.

Obtain prompt medical aid if poisoning should occur.

STATEMENTS OF PRACTICAL TREATMENT

If in eyes: Flush eyes with plenty of water. Call a physician if irritation persists. **If swallowed:** Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger, or if available by administering syrup of ipecac. If person is unconscious, do not give anything by mouth and do not induce vomiting.

To Physician: No specific antidote is available. Treat the patient symptomatically.

ENVIRONMENTAL HAZARDS

AXIOM AT contains the active ingredient atrazine. Atrazine is toxic to aquatic invertebrates. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by disposal of equipment washwaters or rinsate. Do not apply when weather conditions may favor drift from areas to be treated.

Atrazine can leach through soil and has been found to result in contamination of water supplies by way of groundwater. Avoid use of AXIOM AT in well drained sand to loamy sand soils, especially in those areas with high groundwater tables.

Care must be taken when using this product to prevent the following: back siphoning into wells; spills and improper disposal of excess pesticide, spray mixtures or rinsates. Check valves or antisiphoning devices must be used on all mixing equipment.

Do not contaminate water when disposing of equipment washwaters. Apply this product only as specified on this label.

Do not allow sprays to drift on to adjacent desirable plants.

Observe all cautions and limitations on labeling of all products used in mixtures.

Ground Water: Flufenacet is known to leach through soil into ground water under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground-water contamination.

Surface Water: Flufenacet residues can contaminate surface water through spray drift. Under some conditions, they also have high potential for runoff into surface water (primarily via dissolution in runoff water or erosion), for several to many months post-application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas over-laying extremely shallow ground water, areas with infield canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-laying tile drainage systems that drain to surface water.

This product may not be mixed or loaded within 50 feet of any wells (including abandoned wells and drainage wells), sink holes, perennial or intermittent streams and rivers, and natural or impounded lakes and reservoirs. This setback does not apply to properly capped or plugged abandoned wells and does not apply to impervious pad or properly diked mixing / loading areas.

Operations that involve mixing, loading, rinsing, or washing of this product into or from pesticide handling or application equipment or containers within 50 feet 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 washwater, and rainwater that may fall on the pad. Surface water shall not be allowed to either flow over or from 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 capacity 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 specific minimum containment capacities do not apply to vehicles when delivering pesticide shipments to the mixing / loading site. States may have in effect additional requirements regarding wellhead setbacks and operational containment.

This product must be used in a manner which will prevent back siphoning in wells, spills or improper disposal of excess pesticide, spray mixtures or rinsates.

Tile Terraced Fields Containing Standpipes

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

- Do not apply this product within 66 feet of standpipes in tile-outletted terraced fields.
- Apply this product to the entire tile-outletted field and immediately incorporate it to a depth of 2 - 3 inches in the entire tile-outletted terraced field.

- Apply this product to the entire tile-outletted field under 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.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. 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 interval. 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 following application.

Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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
- Waterproof gloves
- Shoes plus socks

IMPORTANT: Read these entire Directions and Conditions of Sale before using AXIOM AT Herbicide.

CONDITIONS OF SALE OR OF DELIVERY FOR USE: THE DIRECTIONS ON THIS LABEL WERE DETERMINED THROUGH RESEARCH TO BE THE DIRECTIONS FOR CORRECT USE OF THIS PRODUCT. THIS PRODUCT HAS BEEN TESTED FOR A RANGE OF WEATHER CONDITIONS SIMILAR TO THOSE WEATHER CONDITIONS THAT ARE ORDINARY AND CUSTOMARY IN THE GEOGRAPHIC AREA WHERE THE PRODUCT IS USED. INSUFFICIENT CONTROL OF PESTS AND/OR INJURY TO THE CROP TO WHICH THE PRODUCT IS APPLIED MAY RESULT FROM THE OCCURRENCE OF EXTRAORDINARY OR UNUSUAL WEATHER, OR FROM FAILURE TO FOLLOW LABEL DIRECTIONS. IN ADDITION, FAILURE TO FOLLOW LABEL DIRECTIONS

MAY CAUSE INJURY TO OTHER CROPS, ANIMALS, MAN, OR THE ENVIRONMENT. BAYER OFFERS, AND THE BUYER ACCEPTS AND USES, THIS PRODUCT SUBJECT TO THE CONDITIONS THAT EXTRAORDINARY OR UNUSUAL WEATHER, OR FAILURE TO FOLLOW LABEL DIRECTIONS ARE BEYOND THE CONTROL OF BAYER AND ARE, THEREFORE, THE RESPONSIBILITY OF THE BUYER.

GENERAL INFORMATION

AXIOM AT is a selective herbicide for control of many important annual grasses and broadleaf weeds in field corn and corn grown for silage. AXIOM AT is formulated as a 75% water dispersible granule (DF). AXIOM AT may be used in either conventional, conservation or no-tillage crop management systems and may be applied preplant surface, preplant incorporated (mix into the top 1 to 2 inch layer of soil) and preemergence. AXIOM AT will provide its most effective weed control when applied and subsequently moved into the soil by rainfall, sprinkler irrigation or mechanical tillage prior to weed emergence. AXIOM AT has multiple modes of actions: inhibition of protein synthesis/cell division and inhibition of photosynthesis.

AXIOM AT may be applied using either water or sprayable grade fluid fertilizer as a liquid carrier or may be impregnated on dry bulk fertilizer.

AXIOM AT may be applied either alone or in tank mix combination with additional herbicides. When tank mixing, always observe all precautionary statements and limitations on labeling of all products.

GENERAL USE RESTRICTIONS

AXIOM AT is intended for use on field corn for grain or silage. Do not use on popcorn or sweetcorn.

Do not apply this product through any type of irrigation system.

Do not apply aerially.

Do not apply more than 3.95 pounds AXIOM AT per use season.

Do not apply AXIOM AT or AXIOM AT tank mixtures when environmental conditions may favor drift to non-target sites.

This product may not be applied within 66 feet of the points where field surface water run-off 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 run-off points must be planted to crop or seeded with grass or other suitable crop.

Avoid spray overlap, as crop damage may result.

If the corn crop treated with AXIOM AT is lost, only corn may be replanted immediately. Do not make a second application of AXIOM AT.

RATE SELECTION/SOIL TEXTURE

The recommended rates of AXIOM AT are defined by texture and organic matter content of the soil being treated. Unless a specific soil texture is mentioned, rate tables throughout this label refer to the following three soil texture groups: coarse, medium and fine. If you are not sure how to classify your soil, contact your Bayer Corporation representative, the Cooperative Extension Service or other knowledgeable person. The following chart includes a complete listing of soil textures included in each of the soil textural grouping:

COARSE	MEDIUM	FINE
Sand	Loam	Silty clay loam
Loamy sand	Silt loam	Silty clay
Sandy loam	Silt	Clay loam
	Sandy clay loam	Clay
	Sandy clay	

MIXING INSTRUCTIONS

LIQUID CARRIERS:

AXIOM AT is a dry flowable herbicide that must be mixed in water or sprayable fluid fertilizer. AXIOM AT can be directly added to water, or 28-0-0 or 32-0-0 liquid fertilizers. Compatibility of AXIOM AT with its labeled tank mix products, or other liquid carriers should always be predetermined prior to spraying. Refer to the COMPATIBILITY TEST (Appendix I) of this label to determine product compatibility in fluid fertilizer carriers.

Before mixing AXIOM AT and its labeled tank mixtures, examine the spray equipment making sure it is completely free of rust and corrosion. Be sure the equipment is free of any residues from previously used pesticides. Flush the lines with clean water or recommended detergents after the last application. Use an approved method for disposing of rinsate.

For optimal spray tank mixing convenience and efficiency, AXIOM AT is recommended to be added to the spray tank via an eductor system.

The proper mixing sequence for AXIOM AT and recommended tank mixtures with the appropriate liquid carrier is as follows:

1. Fill the spray tank or nurse tank 1/4 full with the appropriate liquid carrier.
2. Start the recirculation and agitation system and continue throughout mixing and application.
3. If the compatibility test indicates the need of a compatibility agent, add the recommended amount to the spray tank.
4. If ammonium sulfate is to be used, add it now.
5. If water or sprayable grade nitrogen fertilizers (28-0-0, 32-0-0) are the carriers, slowly add the recommended quantity of AXIOM AT through the eductor system or to the spray tank (for other sprayable grade fertilizers, first check compatibility and then either mix directly, or pre-slurry AXIOM AT first in water, depending on the results of the compatibility test).
6. If tank mixing with wettable powders or other dry flowable products in water, they may be added now.

If tank mixing these products in a sprayable grade fertilizer carrier, first pre-slurry these products with water if indicated on their product label or by the

results of the compatibility test and then slowly add the sprayable grade fertilizer.

7. If tank mixing with suspension concentrates, add the product to the spray tank.
8. If tank mixing with emulsifiable concentrates, add the products to the spray tank.
9. If tank mixing with Gramoxone Extra®, a glyphosate containing product, Touchdown®, or soluble concentrates, add the products to the spray tank.
10. If mixing spray adjuvants in the mixture, add them after all other products have been mixed.
11. Fill the spray tank to the desired level with the appropriate liquid carrier.
12. Continue agitation during transport and application until the spray tank is empty.

AXIOM AT and all registered mixtures should be kept agitated once mixed and then sprayed out immediately. Do not allow mixtures to stand for prolonged periods of time. Water quality, pH, temperature and/or other components of the mixture may affect how long the mixture may stand before application.

DRY FERTILIZER CARRIERS:

AXIOM AT may be impregnated or coated on dry bulk fertilizers for application. Refer to Appendix II of this label for details.

APPLICATION INFORMATION

SPRAYER APPLICATION

Ground Broadcast Treatment: Accurately calibrate the sprayer prior to mixing the herbicide treatments. Apply AXIOM AT and the labeled tank mixtures in a minimum of 10 gallons of total spray volume per acre using broadcast boom equipment. Use a pump with capacity to maintain 30 to 40 psi at the nozzles, maintain adequate in-tank agitation to keep the spray mixture in suspension and provide a minimum of 20% bypass at all times. Application must be made at a sufficient spray pressure and volume to provide accurate and uniform application of spray particles to a given area without causing spray drift to non-target areas. If mixed with other labeled herbicides, the spray volume may be no less than the minimum volume recommended by the tank mix product or 10 gallons, whichever is greater. The use of screens to protect the pump and nozzles is recommended. Screens placed on the suction side of the pump should be 16-mesh or coarser. Do not place a screen in the recirculation line. Use 50-mesh or coarser screens between the pump and boom, and where required, at the nozzles. Refer to the nozzle manufacturer for additional recommendations. Agitate thoroughly before and during application with either bypass or mechanical agitation. Rinse the sprayer thoroughly with clean water immediately after each use.

Band Treatment: AXIOM AT and the labeled tank mixtures may be applied as a band treatment. Use the following formula to calculate the amount of herbicide needed for band treatments:

$$\frac{\text{Band width in inches}}{\text{Row width in inches}} \times \frac{\text{Broadcast rate}}{\text{per acre}} = \frac{\text{Band rate}}{\text{per acre}}$$

DRY FERTILIZER APPLICATION

Apply using a minimum of 200 lb of dry fertilizer per acre. See Appendix II for additional details.

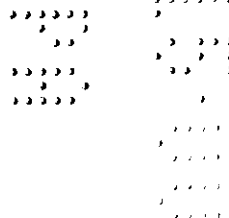
APPLICATION METHODS AND TIMINGS

AXIOM AT may be applied alone, or in tank mixtures or sequentially with certain other registered and recommended herbicides. Applications may be made preplant surface, preplant incorporated or preemergence. Do not apply when environmental conditions favor drift.

Preplant Surface: For use in conservation, minimum or no-tillage crop production systems, AXIOM AT alone or as a recommended tank mixture may be applied as a broadcast spray up to 45 days before planting corn. If early preplant applications are used (15 to 45 days before planting), use the highest recommended label rate for the specific soil type (Table 1). Early preplant applications are not recommended for those areas with coarse textured soils or in areas receiving in excess of 40 inches annual precipitation (rainfall/irrigation). A split application is recommended for applications made 30 to 45 days prior to planting, where 2/3 of the rate is applied initially and the remaining 1/3 is applied at planting. Treatments made less than 30 days before planting may use either a single or split application. If weeds are present at the time of application, AXIOM AT may be tankmixed with a recommended nonselective herbicide such as Gramoxone Extra, Touchdown, or a glyphosate-containing product. Observe directions for use, precautions and restrictions on the label of the nonselective herbicide. If possible, do not move treated soil out of the row or move untreated soil to the soil surface during planting, as weed control may be reduced.

Preplant Incorporation: Apply AXIOM AT alone or in tank mixed combinations with other recommended herbicides as a broadcast spray and incorporate into the upper 1 to 2 inches of the soil surface up to 14 days before planting. Avoid deep incorporation since reduced weed control and/or crop injury may result. Incorporate with implements which provide uniform, shallow incorporation (Example- field cultivator, finishing disk, harrow, rolling cultivator, etc.)

Preemergence: AXIOM AT alone and its recommended tank mixes may be applied to the soil surface as a broadcast spray or band application after planting of the crop but prior to weed or crop emergence. Ensure that the seed furrow is closed prior to herbicide application or crop injury may result. If weeds are present at the time of application, apply AXIOM AT with a nonselective herbicide such as Gramoxone Extra, Touchdown, or a glyphosate-containing product. Observe directions for use, precautions and restrictions on the label of the nonselective herbicide. Rainfall and/or overhead sprinkler irrigation is necessary to move AXIOM AT into the upper soil surface where weed seeds germinate. Dry weather conditions following application may reduce weed control. If adequate moisture is not received within 7 to 10 days after application and weeds begin to emerge from the soil, a light rotary hoeing or shallow incorporation (no deeper than 1/2 inch deep) will improve performance and minimize crop damage. Excessive rainfall or irrigation after application may reduce weed control and/or increase crop damage.



WEEDS CONTROLLED

AXIOM AT applied at recommended rates and application timings will control many annual grasses and broadleaf weeds.

WEEDS CONTROLLED					
ANNUAL BROADLEAF WEEDS				ANNUAL GRASS WEEDS	
Amaranth, palmer ^a	Jimsonweed	Pepperweed, Virginia	Sida, prickly (Teaweed)	Barnyardgrass	Lovegrass, India
Beggarweed, Florida	Kochia ^a			Crabgrass, smooth	Nutsedge, yellow ^c
Buffalobur	Ladysthumb	Pigweed, smooth ^b	Smartweed, Penn.	Crabgrass, large	Panicum, fall
Carpetweed	Lambsquarters, spp. ^b	Pigweed, prostrate ^b	Spurge, spotted	Cupgrass, southwestern	Panicum, browntop
Chamomile spp.	Mallow, Venice	Pigweed, redroot ^b	Spurge, toothed	Cupgrass, woolly ^c	Panicum, Texas ^c
Chickweed, common	Marestail	Purslane, common	Sunflower, wild	Foxtail, giant	Sandbur ^c
Cocklebur, common ^a	Morningglory	Pusley, Florida	Thistle, Russian	Foxtail, yellow	Shattercane ^c
Dandelion, seedling	Mustard, spp.	Radish, wild	Velvetleaf ^a	Foxtail, green	Signalgrass, broadleaf
Galinsoga	Nightshade, black	Ragweed, common	Waterhemp, tall ^a	Goosegrass	Witchgrass
Henbit	Nightshade, eastern black	Ragweed, giant ^a	Waterhemp, common ^b	Johnsongrass, seedling	
	Pennycress, field	Shepherdspurse			
		Sicklepod ^c			

^a Due to extended periods of germination and/or dry weather conditions control of these weeds may be erratic, and may require cultivation or an appropriate postemergence herbicide application for control of late season escapes.

^b Certain biotypes may have developed resistance to triazine herbicides. If weed resistance is known or suspected, use in combination or sequence with a registered non-triazine herbicide.

^c Suppressed growth (partial control)

Following many years of atrazine use (one of the active ingredients in AXIOM AT) and products chemically related to atrazine, certain biotypes of weeds listed as being controlled by the atrazine portion of the product have been reported to develop resistance. Where resistant weed populations are known or suspected to occur, AXIOM AT is recommended to be used in combination or in sequence with registered herbicides which do not contain triazines. Consult with your local state Agricultural Extension Service for specific recommendations.

USE RATES

AXIOM AT may be applied alone or in tank mixture with additional registered herbicides to provide control of annual grasses and broadleaf weeds. Application rates may vary according to crop management system, application timing and soil texture grouping. Rates for applying AXIOM AT alone are located in Tables 1 and 2.

Table 1

AXIOM AT - EARLY PREPLANT (Applications made 15 to 45 days before planting) BROADCAST USE RATES (Pounds AXIOM AT Per Acre) ^{1, 2, 3, 4}			
SOIL TEXTURAL GROUP ⁵	SINGLE APPLICATION	SPLIT APPLICATION ¹	
		30 to 45 DBP ⁶	At Planting Application
COARSE	2.5 to 2.75 lb	DO NOT APPLY	
MEDIUM	2.75 to 3.5 lb ⁷	1.85 to 2.35	0.90 to 1.15
FINE	2.75 to 3.95 lb ⁷	1.85 to 2.50	0.90 to 1.3

¹ Split applications may be made less than 30 days before planting if desired.

² Do not use on coarse textured soils with <1% organic matter. Use 0.25 lb less than the lowest total recommended rate if organic matter is 1.5% or less or if applied on soils with pH levels greater than 7.4; use 0.5 lb less in those areas where organic matter is 1.5% or less and soil pH is greater than 7.4.

³ Use the higher AXIOM AT rate within the applicable rate range under any of the following conditions: reduced or no-tillage and/or heavy surface plant residues, heavy weed pressure, soil organic matter at the upper end of the range, or applications made near the maximum preplant interval.
Use the lower AXIOM AT rate within the applicable rate range under any of the following conditions: low soil organic matter, increased tillage and/or incorporation of surface plant residues, or applications made near the minimum preplant interval prior to planting.

⁴ Do not use on peat or muck soils (soils with 20% or more organic matter).

⁵ For more information, refer to the "Rate Selection/Soil Texture" section of this label.

⁶ DBP- Days before planting

⁷ Do not exceed 3.125 lbs on highly erodible soil with less than 30% plant residue cover. Control of certain weed species may be reduced and a tank-mix partner or an application of a postemergence herbicide may be needed. Rates of up to 3.95 lbs may be used for all other applications.

Table 2

AXIOM AT - PREPLANT SURFACE, PREPLANT INCORPORATE OR PREEMERGENCE (Applications made from 14 days or less before planting to prior to crop emergence) BROADCAST USE RATES (POUNDS AXIOM AT PER ACRE) ^{1,2,3}		
SOIL TEXTURAL GROUP ⁴	SOIL ORGANIC MATTER CONTENT	
	Less than 3% ¹	3% or More
COARSE	1.5 to 1.75 lb	2.0 to 2.25 lb
MEDIUM	2.0 to 2.75 lb	2.5 to 3.0 lb
FINE	2.75 to 3.0 lb	3.25 to 3.75 lb ⁵

¹ Do not use on coarse textured soils with <1% organic matter. Use 0.25 lb less than the lowest total recommended rate if organic matter is 1.5% or less or if applied on soils with pH levels greater than 7.4; use 0.5 lb less in those areas where organic matter is 1.5% or less and soil pH is greater than 7.4.

² Use the higher AXIOM AT rate within the applicable rate range under any of the following conditions: reduced or no-tillage and/or heavy surface plant residues, heavy weed pressure, soil organic matter at the upper end of the range, or applications made near the maximum preplant interval.
Use the lower AXIOM AT rate within the applicable rate range under any of the following conditions: low soil organic matter, increased tillage and/or incorporation of surface plant residues, or applications made near the minimum preplant interval prior to planting.

³ Do not use on peat or muck soils (soils with 20% or more organic matter).

⁴ For more information, refer to the "Rate Selection/Soil Texture" section of this label.

⁵ Do not exceed 3.125 lbs on highly erodible soil with less than 30% plant residue cover. Control of certain weed species may be reduced and a tank-mix partner or an application of a postemergence herbicide may be needed. Rates of up to 3.75 lbs may be used for all other applications.

USE WITH ATRAZINE OR OTHER ATRAZINE CONTAINING PRODUCTS

AXIOM AT contains 0.505 pounds of atrazine active ingredient (ai) per pound of product. When tankmixing or making sequential applications with atrazine-containing products, do not exceed the following total combined amounts of atrazine.

Maximum atrazine rates (ai) which may be utilized per use season.

Prior to Corn Emergence

1.6 lb ai/A - Highly erodible soils with less than 30% plant residue cover

2.0 lb ai/A - All other soils

Following Corn Emergence

2.0 lb ai/A - All soils

Prior to or after Corn Emergence

(Sequential Applications)

2.5 lb ai/A - All soils

Herbicides recommended for tank mixture with AXIOM AT include:

2,4-D	Gramoxone Extra®
Atrazine (0.5 to 1.0 lb ai/A) ^{1,2}	Hornet®
Balance® (1/2 to 1 oz/A) ¹	Marksman® ¹
Banvel®	Princep®
Bladex®	Python®
Clarity®	Roundup®
Extrazine® ¹	Roundup Ultra®
Glyphosate	Touchdown®

¹ Atrazine containing products. Do not exceed the maximum total use rates as mentioned above.

² Use the higher atrazine rate under any of the following conditions: heavy surface plant residues, heavy morningglory/cocklebur pressure, medium/fine textured soils with > 3% organic matter, no-till crop management systems.

³ For improved control of velvetleaf and triazine resistant weeds the grower may choose to use 1/2 to 1 oz/A of Balance® from up to 21 days preplant to preemergence. On coarse textured soils with pH >7.4, do not use an AXIOM AT + Balance tank mixture. On medium textured soils with pH >7.4 and organic matter content <2.5%, an AXIOM AT + Balance tank mixture is not recommended. The user is responsible for selecting the rates of both AXIOM AT and Balance in a tank mixture that is appropriate for all soils in the area of application.

TANK MIXTURES

AXIOM AT may be applied in tank mixtures with certain registered herbicides. AXIOM AT use rates for these herbicide tank mixtures are presented in Tables 1 and 2 located in the USE RATES section.

Herbicides tankmixed with AXIOM AT should be used at their recommended labeled use rates (use recommended labeled use rates unless use rates are specifically mentioned below) to provide improved burndown activity or residual control of certain hard-to-control weeds such as velvetleaf, morningglories, cocklebur or giant ragweed. AXIOM AT tank mixtures may be applied in either conventional, conservation tillage or no-till crop management systems. Tank mixtures may be applied with similar timings and methods as AXIOM AT alone unless specifically prohibited in the mix partner's product label. Three-way or multiple tank mixtures are permitted unless restricted by a product's label.

SEQUENTIAL APPLICATIONS

Sequential herbicide applications either before or following AXIOM AT treatments (labeled use rate, Table 1 and 2) may be used at registered use rates to control additional weeds.

2,4-D	Bromoxynil+ Atrazine*	Lightning®
Accent®	Buctril Gel®	Marksman®*
Accent Gold®	Buctril+Atrazine®*	Permit®
atrazine*	Buctril®	Poast®
Balance®	Clarity®	Prowl®
Banvel®	Contour®*	Pursuit®
Basagran®	Exceed®	Resolve®
Basis Gold®*	Extrazine®*	Resource®
Basis®	Glyphosate	Roundup Ultra®
Battalion®	Gramoxone Extra®	Scorpion III®
Beacon®	Hornet®	Sencor®
Bladex®	Laddok S-12®*	Touchdown®
Bromoxynil	Liberty®	Tough®

* Atrazine containing products. Do not exceed the maximum total use rates as mentioned above.

When using tank mixtures or sequential applications with AXIOM AT, always refer to the companion product(s) label for information concerning specific use rates (unless mentioned specifically in this label), precautions and restrictions. Use in accordance with the most restrictive label limitation and precautions. This product cannot be mixed with any product containing a prohibition against such mixing.

CROP ROTATION RECOMMENDATIONS

In the event of a crop failure, only corn can be replanted immediately. If the original AXIOM AT treatment was broadcast, do not make a second application of AXIOM AT. If the original application was banded and the second crop is planted in the row middles, a second band application may be applied. Corn, sorghum, and soybeans may be planted the year following treatment. Injury may occur to soybeans planted the year following AXIOM AT application on soils having a calcareous surface layer. Do not plant sugar beets, tobacco, vegetables, spring-seeded grains or small-seeded legumes and grasses the year following application as injury may occur.

STORAGE AND DISPOSAL

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

Pesticide Storage: Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If the container is leaking or material spilled for any reason or cause, carefully sweep material into a pile. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Dispose of pesticide as directed below. In spill or leak incidents, keep unauthorized people away. You may contact the Bayer Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Bayer Kansas City Emergency Response Telephone No. is 800-414-0244 or contact Chemtrec at 800-424-9300.

Pesticide Disposal: Do not contaminate water, food or feed by storage or 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 offer for recycling or reconditioning, or 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.

Accent®, Accent Gold®, Basis Gold®, Basis®, Bladex®, and Extrazine® are trademarks of DuPont.

Balance®, Buctril Gel®, Buctril + Atrazine® and Buctril® are trademarks of Rhone-Poulenc Ag Company.

Banvel®, Basagran®, Clarity®, Laddok S-12®, Marksman® and Poast are trademarks of BASF Corporation.

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Sencor® is a trademark of Bayer Corporation.

Liberty® is a trademark of Agrevo USA Company.

APPENDIX I

COMPATIBILITY TEST

A compatibility test is highly recommended for all applications with liquid fertilizers. Prior to mixing products in the spray tank, small quantities of each product can be mixed in proportionate quantities to evaluate compatibilities. The following test assumes a spray volume of 25 gallons per acre. If other spray volumes are to be used, adjust the appropriate amounts of ingredients. To check for compatibility, use the following procedure:

1. Add two inches of the liquid carrier (water or liquid fertilizer) to a one-quart jar fitted with a tight lid.
2. Add the appropriate amount of herbicide. If more than one product is used, the recommended mix sequence is the dry herbicide first, flowables next and emulsified concentrates last. For dry herbicides, add 1-1/2 level teaspoons/pound/acre use rate and for liquids add 1/2 teaspoon/pint/acre use rate.
3. Add one pint of the liquid carrier (water or liquid fertilizer) to the jar. Place the lid on the jar and gently shake the jar for one minute. Place the jar on a level surface and let it stand for 30 minutes.
4. Reagitate the mixture and observe for signs of phase separation, flakes, particles, gels, precipitates, etc., that would prevent the mixture from being a sprayable solution. If none of these conditions occur, the mix is compatible.
5. If incompatible, use of a compatibility agent is recommended. Rerun the above test but first add a compatibility agent (1/4 teaspoon is equal to a use rate of 2 pints/100 gallons spray mix) and gently shake the jar prior to adding herbicides.
6. If the mixture is now compatible, a compatibility agent should be used in the spray mixture at its recommended rate.
7. If the components of the solution are still incompatible, the mixture should not be attempted for use in the spray tank.
8. Contact your Bayer representative for further recommendations on testing spray solution compatibilities.

APPENDIX II

IMPREGNATION AND APPLICATION ON DRY FERTILIZER

Dry bulk fertilizer may be impregnated or coated with AXIOM AT for applications to corn and soybeans. Follow all AXIOM AT label recommendations, special instructions and precautions. All state regulations relating to dry bulk fertilizer blending, impregnating and labeling must also be followed.

Rates: Select the recommended AXIOM AT use rate per acre from the crop section of this label and determine the quantity of dry bulk fertilizer to be applied per acre (use a minimum of 200 pounds and a maximum of 450 pounds per acre). Use the equation below to determine the amount of AXIOM AT needed per ton of fertilizer applied.

$$\frac{\text{lbs AXIOM AT}}{\text{per Acre}} \times \frac{2000}{\text{lbs fertilizer per Acre}} = \frac{\text{lbs AXIOM AT}}{\text{per ton fertilizer}}$$

(1 lb = 16 ounces AXIOM AT)

Impregnation: AXIOM AT may be impregnated on many commonly used dry fertilizers but should not be impregnated on ammonium nitrate, fertilizers containing ammonium nitrate, potassium nitrate, sodium nitrate or powder limestone.

To impregnate AXIOM AT on bulk fertilizer, use a closed rotary-drum mixer or other commonly used dry bulk fertilizer blender equipped with suitable spray equipment. Mix AXIOM AT with sufficient water to form a sprayable slurry mixture. Spray nozzles must be directed to provide uniform fertilizer coverage while avoiding spray contact with mixing equipment. Nonuniform impregnation can cause crop injury or unsatisfactory performance.

Spray the herbicide mixture onto the fertilizer after blending has started. If necessary, include a suitable drying agent to ensure a spreadable herbicide impregnated fertilizer. If the fertilizer materials are excessively dusty, use diesel fuel or other suitable additive to reduce dust prior to impregnation. Apply the treated fertilizer immediately after impregnation to avoid lump formation and spreading difficulties.

Application: Accurate calibration of fertilizer application equipment and uniform fertilizer distribution is essential for satisfactory weed control. Air flow or auger metered application equipment is preferred (one pass application). If other equipment is used, the recommended application method is to apply one-half the recommended rate and overlap 50 percent or to double apply by splitting the middles to obtain the best distribution pattern.

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Bayer Corporation
Crop Protection Products
Box 4913
Kansas City, MO 64120-0013
(800) 842-8020
<http://usagri.bayer.com>

