

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

AUG 2 1 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:

Add White Corn

Axiom DF Herbicide

EPA Registration No. 3125-488

Your Submission Dated July 20, 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
 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.
 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.
 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.
 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.

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)

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Enclosure

going for treatment.

Axiom

ACCEPTED

WINDSHIP In EPA Letter Dated:

For weed control in corn and soybeans.

AUG 2 1 2000

STATEMENTS OF PRACTICAL TREATMENT

= text charges-

ACTIVE INGREDIENT:

DF Herbicide

Under the Federal Insecticide, Fungicide, and Rodenticide Act,

Flufenacet N-(4-Fluorophenyl)-N-(1-methylethyl) 2 13 5- HK -(trifluoromethyl)-1,3,4-thiadiazol-2-vii-Metribuzin: 4-Amino-6-(1,1-dimethylethyl)-3--(methylthio)-1,2,4-triazin-5(4H)-one13.6% 100.0%

EPA Reg. No. 3125-488

EPA Est 3125-MO-1

U.S. Patent No. 4,645,525 and 4,585,471 and 4,968,342 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, inhaled or absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic skin reactions in some individuals. Avoid contact with skin, eyes, or clothing. Avoid breathing dust.

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.

amended, for the preticid wed, vomiting should be induced. Administer water under EPA is will be under EPA in the preticid water water and induce vomiting by giving one dose (1/2 oz or 15 mL) of syrup of ipecac. If vomiting does not occur within 10 to 20 minutes, administer second dose. If syrup of ipecac is not available, induce vomiting by sticking finger down throat. Repeat until vomit fluid is clear. Never give anything by mouth to an unconscious person. Professional medical assistance should be secured immediately. If inhaled, remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention. If on skin, wash thoroughly with soap and warm water.

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

ENVIRONMENTAL HAZARDS

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 apply when weather conditions favor drift from areas treated. Do not contaminate water when disposing of equipment washwaters.

Do not allow sprays to drift onto adjacent desirable plants.

Metribuzin has properties that may result in ground water contamination. Application in areas where soils are permeable or coarse and groundwater is near the surface could result in groundwater contamination.

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 and metribuzin 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 overlying extremely shallow ground water, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vocetated filter strips, and areas overlying tile drainage systems that drain to surface waters.

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:

- Coverails
- · Waterproof gloves
- Shoes plus socks

IMPORTANT: Read these entire Directions and Conditions of Sale before using AXIOM Dry Flowable 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 is a selective herbicide for control of many annual grasses and certain broadleaf weeds in field corn, white corn, corn grown for silage and soybeans. AXIOM may be applied preplant surface, preplant incorporated (mix into the top 1 to 2 inch layer of soil) and preemergence. AXIOM 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 controls weeds by interfering with seed germination and seedling development.

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

AXIOM 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.

Dry weather following preemergence application of AXIOM or recommended tank mixtures may reduce effectiveness. Cultivate if weeds develop.

GENERAL USE RESTRICTIONS

AXIOM is for use on soybeans, field corn, white corn, corn grown for silage, and field corn grown for seed. Do not apply to popcorn or sweetcorn.

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

Do not use flood irrigation to apply, activate or incorporate AXIOM.

Do not apply more than 23 ounces AXIOM per acre per use season in corn and 13 ounces per acre per use season in sovbeans.

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

Corn seed should be planted a minimum of 1-1/2 inches deep and soybean seed should be planted a minimum of 1 inch deep.

If any crop treated with AXIOM is lost, corn or soybeans may be replanted immediately. Do not make a second application of AXIOM.

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, cr 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, rings 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.

RATE SELECTION / SOIL TEXTURE

The recommended rates of AXIOM 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 textures groupings:

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

MIXING INSTRUCTIONS

LIQUID CARRIERS:

AXIOM is a dry flowable herbicide that must be mixed in water or sprayable fluid fertilizer. Compatibility of AXIOM or its labeled tank mix products with these liquid carriers should always be predetermined prior to spraying. Refer to the SPRAYABLE FLUID FERTILIZER COMPATIBILITY TEST (Appendix I) of this label to determine product compatibility in fluid fertilizer carriers.

Before mixing AXIOM and its labeled tank mixtures, examine the spray equipment making sure it is completely clean and free of rust or corrosion. Be sure the equipment is free of any residues from previously used pesticides. Flush 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 is recommended to be added to the spray tank via an eductor system.

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

- Fill the spray tank or nurse tank 1/4 full with the appropriate liquid carrier.
- Start recirculation and agitation system and continue throughout mixing and application.
- If the compatibility test indicates the need of a compatibility agent, add the recommended amount of compatibility agent to the spray tank.
- 4. If ammonium sulfate is to be used, add it now.

- 5. Next add the recommended quantity of AXIOM through the eductor system or to the spray tank [slowly add AXIOM if water or sprayable grade nitrogen fertilizers (28-0-0, 32-0-0) are the carriers; for other sprayable grade fertilizers first check compatibility and then either mix directly or preslurry 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 as the carrier, they may be added now. If tank mixing these products in a sprayable grade fertilizer carrier, first preslurry these products with water and then slowly add them to any sprayable grade fertilizer carrier.
- If tank mixing with emulsifiable concentrates or soluble products, add the products to the spray tank.
- If tank mixing with Gramoxone Extra®, a glyphosatecontaining product or Touchdown®, add the products to the spray tank.
- If mixing spray adjuvants in the mixture, add them after all other products have been mixed.
- Fill the spray tank to the desired level with the appropriate liquid carrier.
- Continue agitation during transport and application until the spray tank is empty.

AXIOM and all registered mixtures should be kept agitated once mixed and then sprayed 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 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 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 and the labeled tank raixtures may be applied as a band treatment. Use the following formula to calculate the amount of herbicide needed for band treatments:

Band width in inches Row width in inches per acre Band rate

DRY FERTILIZER APPLICATION

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

APPLICATION METHODS AND TIMING

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

Preplant Surface: For use in conservation, minimum or notillage crop production systems, AXIOM alone or as a recommended tank mixture may be applied as a broadcast spray up to 45 days before planting in corn and 14 days before planting in soybeans. A sequential application is recommended for applications made 30 to 45 days prior to planting, where 2/3 of the highest recommended broadcast rate for the crop and soil texture 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 sequential application. If weeds are present at the time of application, apply the AXIOM treatment in tank mixture with a recommended nonselective herbicide such as Gramoxone Extra, a glyphosate-containing product or Touchdown. 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 alone or in combination with recommended tank mixes 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 -finishing disk, harrow, rolling cultivator, etc.)

Preemergence: AXIOM 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. If weeds are present at the time of application, apply AXIOM with a nonselective herbicide such as Gramoxone Extra, a glyphosate-containing product or Touchdown. Rainfall and/or overhead sprinkler irrigation is necessary to move AXIOM 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 applications and weeds begin to emerge from the soil, a light rotary hoeing or shallow incorporation (no deeper than ½ inch deep) will improve performance and minimize crop damage. Excessive rainfall or irrigation after application may reduce weed control.

Special Applications: Fall Application (for use only in IA, MN, ND, SD, WI, north of Route 20 in NE, north of Route 136 in IL, and north of Interstate 70 in OH):

Following harvest of crops in the fall, AXIOM may be applied to crop stubble after October 15, when the sustained soil temperature at the four-inch soil depth is less than 50⁰ F, but before the ground is frozen. This application is limited to only medium- and fine-textured soils with an organic matter of 2.5% or greater and which will be planted to corn the following spring. The soil may be tilled before or after application with incorporation depth no more than two to three inches following herbicide application. If a spring application of AXIOM follows the fall application, the total AXIOM rate for both applications must not exceed 23 ounces.

CORN

(FIELD AND SEED)

AXIOM dry flowable herbicide is a selective herbicide for control of most annual grasses and selected annual broadleaf weeds in corn. A single or split application program may be used and the product may be applied alone or in tank-mix combination with certain registered herbicides. The following types of applications are allowed: preplant surface, preplant incorporated and preemergence. Most effective weed control will occur when the applied product is moved into the soil by rainfall, sprinkler irrigation or mechanical tillage prior to weed emergence from the soil.

Special Precautions (Field Seedcorn Inbreds): Field seedcorn inbred lines may vary in their response to AXIOM. Do not apply AXIOM to inbreds without first verifying with your local seedcorn company (supplier) the AXIOM selectivity on your inbred line.

Recommended application timing for AXIOM on field seedcorn inbreds are only preplant surface and preemergence. Do not apply preplant incorporated.

Do not apply AXIOM on field seedcorn inbreds grown on coarse textured soils with less than 1.0% organic matter.

WEED SPECIES CONTROLLED BY AXIOM

AXIOM herbicide applied at recommended dosages and application timings will control many important annual grasses and broadleaf weeds.

WEEDS CONTROLLED¹

ANNUAL GRASS WEEDS

(Echinocloa crusgalli)
Crabgrass, large
(Digitaria sanguinalis)
Crabgrass, smooth
(Digitaria ischaemum)
Foxtail, giant (Setaria faberi)
Foxtail, green (Setaria viridis)

Barnyardgrass

Foxtail, yellow (Setaria glauca) Goosegrass (Eleusine indica) (Sorghum halepense)

Lovegrass, India
(Eragrostis sp)

Panicum, browntop
(Panicum fasciculatum)

Panicum, fall
(Panicum dichotomiflorum)

Signalgrass, broadleaf
(Brachiaria platyphylla)

Witchgrass
(Panicum
capillare)

Johnsongrass (seedling)

ANNUAL BROADLEAF WEEDS

(Desmodium tortuosum)
Carpetweed
(Mullugo verticillata)
Galinsoga spp.
(Galinsoga spp.)
Lambsquarters, common'
(Chenopodium album)
Pigweed spp.'

Beggarweed, Florida

Purslane, common
(Portulaca oleracea)
Pusley, Florida
(Richardia scabra)
Spurge, spotted
(Euphorbia maculata)
Waterhemp, common 1,2
(Amaranthus rudis)
Waterhemp, tall 1,2
(Amaranthus tuberculatus)

- (Amaranthus spp.) (Amaranthus tuberculatus)

 These treatments may not provide acceptable control of triazine-resistant biotypes.
- Due to extended germination intervals, full season control may not always be achieved, especially following preplant surface applications. To complement control, AXIOM should be used in tank-mixtures or sequentially with other herbicides that provide additional control of these weed species.

WEED SPECIES PARTIALLY CONTROLLED BY AXIOM

AXIOM herbicide will provide partial control or reduced competition for many additional grass and broadleaf weeds. Reduced competition weeds will be stunted in growth and/or be reduced populations as compared to non-treated areas but control will generally not be commercially acceptable.

WEED SPECIES PARTIALLY CONTROLLED			
ANNUAL GRASS	S/SEDGE WEEDS		
Cupgrass, woolly (Eriochloa villosa)	Panicum, Texas (<i>Panicum texanum</i>)		
Millet, wild-proso (Panicum milliaceum)	Sandbur, field (Cenchrus incertus)		
Nutsedge, yellow (Cyperus esculentus)	Shattercane (Sorghum bicolor)		
ANNUAL BROADLEAF WEEDS			
Jimsonweed (Datura stramonium)	Ragweed, common (Ambrosia artemisiifolia)		
Ladysthumb (Polygonum persicaria) Marestail (Conyza canadensis)	Sida, prickly (Sida spinosa) Smartweed, Pennsylvania (Polygonum pensylvanicum) Sunflower, common		
Mustard spp. (Brassica spp.) Nightshade, eastern black (Solanum ptycanthum)	(Helianthus annuus) Velvetleaf (Abutilon theophrasti)		

AXIOM USE RATES IN PREPLANT SURFACE, PREPLANT INCORPORATED AND PREEMERGENCE APPLICATIONS

For FALL Application (For use only in IA, MN, ND, SD, WI, north of Route 20 in NE, north of Route 136 in IL, and north of Interstate 70 in OH):

After October 15, when the sustained soil temperature at the four inch soil depth is less than 50 °F, AXIOM may be applied to remaining crop stubble following harvest. In conservation, minimum and no-tillage systems on soils having 2.5% organic matter or greater, apply AXIOM at 19 to 23 oz/A on *medium textured soils* and 23 oz/a on fine textured soils. Apply before the ground is frozen. The soil may be tilled before or after application with an incorporation depth no more than two to three inches following the fall application. Minimize furrow and ridge formation in the tillage operations after application of AXIOM. If a spring application is made, the total rate of both fall and spring must not exceed the maximum total rate for corn, or illegal residues may occur.

For CONVENTIONAL Tillage Systems With Applications Made TWO WEEKS OR LESS Preplant Surface, Preplant Incorporated and Preemergence Applications

Recommended AXIOM use rates are located in Table 1. Rates are based on soil texture and organic matter and are for applications made within two weeks of planting and until corn emergence.

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TABLE 1

AXIOM USE RATES IN CONVENTIONAL TILLAGE APPLICATIONS MADE TWO WEEKS OR LESS PREPLANT SURFACE, PREPLANT INCORPORATED OR PREEMERGENCE.

AXIOM DF RATE (OUNCES PER ACRE). 12,3

		SOIL OF	RGANIC MATTER CO	NTENT	
SOIL TEXTURAL GROUP	<0.5%	0.5 to 1%	1 to 1.5%	1.5 to 3%	>3 %
COARSE	8 oz	8 to 10 oz	10 to 12 oz	13 oz	15 oz
^ MEDIUM	10 to 15 oz		15 to 1	18 oz	17 to 20 oz
FINE		20 to	22 oz		20 to 23 oz

- Use the higher rate of AXIOM within the applicable rate range under any of the following conditions: heavy surface plant residues, heavy weed pressure and/or when soil organic matter is at the upper end of the range.
- ² If soil pH is >7.4, use the lower rate of the rate range shown.
- Not recommended for 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.

TABLE 2

AXIOM USE RATES IN CONSERVATION, MINIMUM, AND NO-TILLAGE SYSTEMS; OR CONVENTIONAL TILLAGE SYSTEMS WITH APPLICATIONS GREATER THAN TWO WEEKS PREPLANT SURFACE.

AXIOM DF RATES (OUNCES PER ACRE). 1,2,3

SOIL ORGANIC MATTER CONTENT					
SOIL TEXTURAL GROUP ⁴	<0.5%	0.5 to 1%	1 to 1.5%	1.5 to 3%	>3%
COARSE	9 oz	9 to 11 oz	11 to 13 oz	14 oz	16 97, ,
MEDIUM	11 to	18 oz	18 to 2	0 oz	19 to 22 oz
FINE			20 to 23 oz)))

- Use the higher rate of AXIOM within the applicable rate range under any of the following conditions: heavy surface plant residues, heavy weed pressure and/or when soil organic matter is at the upper end of the range.
- ² If soit pH is > 7.4, use the lower rate of the rate range shown.
- Not recommended for use on peat or muck soils (soils with 20% or more organic matter).
- For more information, refer to the "Rate Selection/Soil Texture" section of this label.

For CONSERVATION, MINIMUM, and NO-TILLAGE Systems; or CONVENTIONAL Tillage Systems With Applications GREATER THAN TWO WEEKS Preplant Surface:

Recommended AXIOM use rates are located in Table 2. Rates are higher for these types of tillage systems and application timings than in Table 1 due to the extended period of weed control needed and the increased crop residue present. Refer to the "Application Methods and Timing" section of the label for details. Weed control will generally be greater the closer the applications are made to planting but prior to weed emergence.

AXIOM TANK MIXTURES

If a broader spectrum of weed control is required, AXIOM may be tank mixed with certain recommended herbicides. Mixtures may be used in either conventional, conservation, minimum and / or no-tillage systems. They may be applied with similar timings and methods as AXIOM alone unless specifically prohibited in the mix partner's product label. Three-way or multiple tank mixtures are permitted unless restricted by the product label. In conservation, minimum or no-till systems where emerged weeds are present at the time of application, AXIOM alone and/or tank mixtures may also be tank mixed with Gramoxone Extra, glyphosate-containing products, and/or Touchdown to provide burndown of emerged weeds. For additional broadleaf control, an appropriate formulation of 2,4-D may be added to the mixtures.

Refer to individual product labels for use rates, precautions and / or restrictions. Apply in accordance with the most restrictive of label limitations and precautions. No label dosage rates should be exceeded. This product cannot be mixed with any product containing a label prohibition against such mixing.

Herbicides recommended for tank mixtures with AXIOM include:

2,4-D LVE	Hornet®
Atrazine	Marksman®
Balance®	Pentagon®
Banvel®	Prowk®
Cyanazine	Python®
(Bladex® and others)	Roundup®
Clarity®	Roundup Ultra®
Extrazine IMD	Sencor®
Glyphosate	Touchdown®
Gramovone Extra®	1000110011110

Specific or general information for each tank mix product are provided in the following text. Refer to the individual product labels for additional information concerning use rates, precautions and/or restrictions.

AXIOM Plus ATRAZINE:

Use the recommended use rate of AXIOM as shown below with the labeled use rate of atrazine.

USE RATES FOR AXIOM (ounces per acre)			
SOIL	ORGAI	VIC MATTER	CONTENT
TEXTURAL	< 1%	1 to 3%	> 3%
COARSE	4 to 6 oz	8 to 11 o	11 oz
MEDIUM	8 to 11 oz 11 to		z 15 oz
FINE	<3 %		>3%
	15 oz 1		15 to 19 oz

USE RATES FOR ATRAZINE (pounds per acre)

(0.5 to 2.0 lb ai/A are labeled use rates)

For improved control of broadleaf weeds such as groundcherry, nightshade, common ragweed, giant ragweed*, mustards, jimsonweed, kochia (non-triazine resistant), sicklepod*, velvetleaf*, common cocklebur*, and annual morningglory.

Applications may be made preplant surface, preplant incorporated and/or preemergence.

Do not apply more than two weeks prior to planting In preplant surface applications on coarse textures soils.

- Weeds are partially controlled (suppressed).
- ** Use the lower rate range of AXIOM on soils with <1% organic matter and / or soil pH of >7.4.

AXIOM plus BALANCE:

In addition to the weeds controlled by AXIOM alone, AXIOM at rates suggested in Tables 1 or 2 when mixed with the suggested rates of Balance as shown below will improve control of many weeds.

USE RATES FOR BALANCE (Ounces 75 WDG per Acre)			
	COARSE TEXTURED SOILS**	MEDIUM / FINE TEXTURED SOILS	
APPLICATION TIMING	Conventional tillage / Conservation tillage / No-till	Conventional tillage / Conservation tillage / No-till	
Preemergence	0.75 to 1 oz	1.5 to 2.0 oz	
Preplant Surface or Incorporated (0 to 7 days before planting)	. <u>.</u>		
Preplant Surface or Incorporated (8 to 14 days before planting)	1.0 to 1.5 oz	2.0 to 2.5 oz	

ADDITIONAL WEEDS CONTROLLED AND COMMENTS

For improved control of palmer amaranth, buffalobur, common chickweed, seedling dandelion, jirnsonweed, kochia, Venice mallow, marestall, wild mustard, nightshades (eastent, black), field pennycress, broadleaf plantain, triazine resistantovoeds (pigweeds, common lambsquarters), common ragweed, shepherdspurse, Pennsylvania smartweed, velvetleaf, waterhemp (common, tall), wild radish, woolly cupgrass*, wild proso millet*

- * Weeds may require an appropriate posternergence, herbicide application for control of late season escapes. *
- ** On coarse textured soils with < 1.5% organic matter shr/or soil pH > 7.4, use Balance at 0.5 kg/0.87, oz/acre and AXIOM at 4 to 8 oz. Use the high rates as crganic matter content increases.

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In the following tank mixes, use AXIOM at use rates recommended in Tables 1 or 2 plus the recommended labeled use rate of the tank mix partner.

AXIOM Plus:		
TANK MIX PARTNER		
(Labeled Use Rates)	ADDITIONAL WEEDS CONTROLLED	
Cyanazine (1 lb ai/A) Extrazine II (1.5 lb ai/A)	annual groundcherry, ladysthumb, Pennsylvania smartweed, nightshade, common ragweed, kochia (non-triazine resistant), mustards, jimsonweed*, prickly sida, velvetleaf*, common cocklebur*, annual morningglory* and sunflower*	

Preplant surface, preplant incorporate and preemergence applications

Do not use on coarse textured soils.

Do not use after December 31, 2002

Banvel/Clarity (1 pint/A)	kochia, ladysthumb, Pennsylvania smartweed, marestail, Venice mallow, nightshade, common ragweed,
Marksman	jimsonweed*, velvetleaf*, common cocklebur*, morningglory sp.*,
(3.5 pints/A)	sicklepod, waterhemp and triazine- resistant weeds

Preplant and preemergence applications only.

Use only on field which are flat planted (no furrows)

Avoid direct contact with the com seed or injury may result.

Apply only to medium and fine textured soils with > 2% organic matter.

Prowl/Pentagon	velvetleaf, triazine-resistant weeds
(0.75 to 1.5 lb ai/A)	

Preemergence application only.

Do not apply preplant incorporate as serious corn damage may result.

Hornet (3.2 to 4.8 oz/A)	common cocklebur, marestail, jimsonweed, kochia, ladysthumb, Pennsylvania smartweed, Venice mallow, momingglory*, common ragweed, giant ragweed*, Russian thistle, sicklepod, prickly sida, common sunflower, velvetleaf, tall waterhemp, wild mustard, black nightshade, triazine-resistant weeds and Canada thistle*

Apply preplant surface, preplant incorporate and/or preemergence.

Do not apply to areas where the soil pH is >7.8.

Do not apply to areas with a soil pH < 5.9 and organic matter > 5% (Both must apply).

Use of Hornet on soils that average < 1.5% organic matter may result in com damage.

Python (0.89 to 1.33 oz/A)	marestail, ladysthumb, Pennsylvania smartweed, Venice mallow, common cocklebur*, jimsonweed*, nightshade (black, cutleaf, eastern black, hairy), velvetleaf, wild mustard, Russian thistle, prickly sida, waterhemp sp., sicklepod*, common ragweed*, giant ragweed*, momingglory sp*, wild sunflower, triazine-resistant weeds
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Apply preplant surface, preplant incorporate and/or preemergence.

Use of Python on soils that average < 1.5% organic matter may result in com damage.

TANK MIX	
PARTNER	
(Labeled Use Rates)	ADDITIONAL WEEDS CONTROLLED
Sencor (0.05 to 0.114 lb ai/A)	ladysthumb, Pennsylvania smartweed, prickly sida, velvetleaf, common ragweed, waterhemp sp.*
Apply preplant incorpo	rate and/or preemergence.
Do not use on coarse	textured soils with < 1.5% organic matter
	metribuzin. The maximum application rat to applying 0.136 lbs metribuzin (ai) per
	Metribuzin (Sencor) rate of 0.187 lb ai/A anic matter and 0.25 lb ai/a on all other
2,4-D	common cocklebur, mustards, commor
(low volatile ester) (1/4 to 1 lb ai/A)	ragweed, giant ragweed, jimsonweed, morningglory sp., sunflower, velvetleaf, dandelion*,
Apply preplant surface	and/or preemergence.
Apply 7 to 14 days price but before com emerg	or to planting or 3 to 5 days after planting ence.
Do not use on light, sa inadequate for normal	andy soils, or where soil moisture is weed growth.
Glyphosate / Touchdown	Annual and perennial weeds
(0.375 to 4 lb ai/A)	
Apply before or after p	lanting but prior to corn emergence
For use in conservation, minimum and no-till systems.	
Gramoxone Extra	Annual weeds and suppression of
(1.5 to 3 pints/A)	some perennials
(1.5 to 3 pints/A)	anting but prior to corn emergence

AXIOM SEQUENTIAL APPLICATIONS

Weeds are partially controlled (suppressed)

Sequential herbicide applications either before or following AXIOM treatments may be used to control additional weeds. Herbicides recommended for sequential applications include:

** Burndown weed control in minimum and no-till corn only

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Atrazine	Buctril + Atrazine®	Permit®
Accent®	Buctril Gel® 🎚	Poast®
Aim®	Clarity®	Prowl® .
Balance®	Contour®	Pursuit®
Banvel®	Exceed®	Python®
Basagran®	Extrazine II®	Resolve®
Basis®	Glyphosate	Resource®
Battalion®	Gramoxone	Roundup®
Beacon®	Extra®	Roundup Ultra®
Bladex®	Hornet®	Scotpich III
Bromoxynii	Laddok S-12®	Sencor®
Bromownil +	Liberty® ;	Tough®
Atrazine	Lightning® * •	2,4-0
Buctril®	Marksman® * * * * * * * * * * * * * * * * * * *	2,π-≱r 3.3

Refer to the above information and the individual product labels for detailed explanations on use rates and directions and special precautions/restrictions.

SOYBEAN

AXIOM is a selective herbicide for the control/suppression of annual grasses and selected broadleaf weeds in soybeans. AXIOM may be applied once per use season either alone or in tank mix combination with or sequentially with certain registered herbicides. The following types of application are allowed: preplant surface, preplant incorporated and preemergence. The preplant surface and preplant incorporate treatments may be applied up to 14 days before planting. The most effective weed control will occur when the applied product is moved into the soil by rainfall, sprinkler irrigation or mechanical tillage prior to weed emergence from the soil.

Do not graze or feed forage, hay or straw to livestock.

WEED SPECIES CONTROLLED BY AXIOM

AXIOM herbicide applied alone at the recommended dosages and application timings will provide control of certain annual grasses and broadleaf weeds.

WEEDS CONTROLLED ¹ ANNUAL GRASS WEEDS		
Crabgrass, large (Digitaria sanguinalis)	Goosegrass (Eleusine indica) Lovegrass, India	
Crabgrass, smooth (Digitaria ischaemum)	(Eragrostis sp) Panicum, fall	
Foxtail, giant (Setaria faberi) Foxtail, green (Setaria viridis)	(Panicum dichotomiflorum)	

ANNUAL BROADLEAF WEEDS

Carpetweed (Mullugo verticillata) Galinsoga spp. (Galinsoga spp.) Purslane, common (Portulaca oleracea) Spurge, spotted

Spurge, spotted (Euphorbia maculata)

Full season weed control will be achieved only on coarse textured soils using the maximum 13 ounce use rate. Use rates of 7 to 13 ounces will provide only early season weed control on all other soil textures. To complement early season weed control, AXIOM is recommended for use in tank-mixture with or sequentially with other herbicides that provide additional control of these weed species.

WEED SPECIES PARTIALLY CONTROLLED BY AXIOM

AXIOM herbicide will provide partial control or reduced competition for additional grass and broadleaf weeds. Reduced competition weeds will be stunted in growth and/or be of reduced populations as compared to non-treated areas but control will generally not be commercially acceptable.

WEED SPECIES PARTIALLY CONTROLLED		
ANNUAL G	RASS WEEDS	
Johnsongrass, seedling (Sorghum halepense)	Signalgrass, broadleaf (Brachiaria platyphylla)	
Panicum, browntop (Panicum fasciculatum)	Shattercane (Sorghum bicolor)	
Sandbur, field (Cenchrus incertus)	Witchgrass (Panicum capillare)	
ANNUAL BROADLEAF WEEDS		
Beggarweed, Florida (Desmodium tortuosum)	Ragweed, common (Ambrosia artemisiifolia)	
Jimsonweed (Datura stramonium)	Sida, prickly (Sida spinosa) Smartweed, Pennsylvania	
Lambsquarters, common (Chenopodium album)	(Rolygonum pensylvanicum) Waterhemp, common	
Mustard spp. (Brassica spp.)	(Amaranthus rudis) Waterhemp, tall	
Pigweed spp. (Amaranthus spp.)	(Amaranthus tuberculatus)	

AXIOM USE RATES

The recommended use rate for AXIOM applied alone, in tank-mix combination with and/or sequentially with other herbicides for all application methods and timings is 7 to 13 ounces per acre. The 13 ounce rate of AXIOM alone will provide full season control of annual grasses and certain broadleaf weeds in coarse textured soils but will provide only early season weed control on medium and fine textured soils. Rates lower than 13 ounces will provide only early season weed control on all soil textures. To complement this early season weed control, AXIOM should be used in tank-mixture or sequentially with other herbicides that provide additional control of these weed species.

AXIOM TANK MIXTURES

If a broader spectrum of weed control or improved residual activity is required, AXIOM may be tank mixed with certain recommended herbicides. Mixtures may be used in either conventional, conservation, minimum and no-tillage systems. They may be applied with similar timings and methods as AXIOM alone unless specifically prohibited in the mix partner product label. Three-way or multiple tank mixtures are permitted unless restricted by the mix partner product labels. Refer to the individual product labels for recommended use rates, precautions and/or restrictions. Herbicides recommended for tank mixtures with AXIOM include:

Authority Broadleak®	Linuron (Lorox® and others)	Scenter®
Canopy®	Pentagon® , , , , ,	(Metribuzin)
Canopy XL®	Prowf®	Sonalan HEP®
Command®	Pursuit® '';'';	Touchdown®
FirstRate®	Python®	Turbo®
Glyphosate	Roundup® ; ; ; ; *	Trifluralin
Gramoxone Extra®	Roundup Ultra®	2, 4D USE, ,
		, , , , , , , , , , , , , , , , , , ,

AXIOM SEQUENTIAL APPLICATIONS

Sequential herbicide applications may be used in an AXIOM weed control program to control additional weeds. Herbicides recommended for use either before or following AXIOM treatments include:

Assure IN® Basagran® Blazer® Canopy® Classic® Cobra® Command® Concert® FirstRate® Flexstar® Fusilade® Fusion® Galaxy® Glyphosate	Gramoxone Extra® Liberty® Linuron Option II® Pentagon® Pinnacle® Poast® Poast Plus® Prowl® Pursuit® Python® Raptor® Reflex®	Reliance STS® Resource® Roundup® Roundup Ultra® Scepter® Select® Sencor® Sonalan HFP® Storm® Synchrony STS® Tornado® Touchdown® Trifluralin 2, 4-D
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Refer to the above information and the individual product labels to for use directions, use rates and special precautions/restrictions.

CORN AND SOYBEAN CROP ROTATION RECOMMENDATIONS

In the event of a crop failure, any crop on this label can be replanted immediately. Do not make a second application of AXIOM. After application of AXIOM, only the following crops can be planted, after the waiting period as listed below.

Immediately		
Com		
Soybean		
1 month		
Potato		
4 months		
Carrot		
12 months		
Alfalfa	Millet, pearl	Tritical
Barley	Millet, prose	Wheat
Bermudagrass	Oats	Wild Rice
Bluegrass	Popcom	
Bromegrass	Rice	
Buckwheat	Rye	
Clover	Sorghum	
Fescue	Teosinte	<u> </u>

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: 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.

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APPENDIX I

SPRAYABLE FLUID FERTILIZER 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:

- Add two inches of water 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.
- Add one pint of the 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.
- Observe the mixture for signs of separation, flakes, gels, precipitates, etc. 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.
- If the mixture is now compatible, a compatibility agent should be used in the spray mixture at its recommended rate.
- If the mixture is still incompatible, the liquid fertilizer and herbicides should not be mixed together for use in the same spray tank.

APPENDIX II

IMPREGNATION AND APPLICATION ON DRY FERTILIZER

Dry bulk fertilizer may be impregnated or coated with AXIOM for applications to corn and soybeans. Follow all AXIOM 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 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 needed per ton of fertilizer applied.

Oz AXIOM per acre x 2000 = Oz AXIOM

Lb fertilizer per acre

Per ton fertilizer

(1 lb = 16 ounces AXIOM)

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

To impregnate AXIOM on bulk fertilizer, use a closed rotarydrum mixer or other commonly used dry bulk fertilizer blender equipped with suitable spray equipment. Mix AXIOM 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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