

This product has been cancelled effective as of November 29, 2024, but is authorized under paragraph 21(5)(a) of the Pest Control Products Act. Manufacturing and importing of the product are no longer permitted. The existing stocks in Canada are to be depleted according to the phase-out schedule, as listed in the Pesticide Product Information Database (<https://pesticide-registry.canada.ca>).

# AXIOM® DF

## 68% WATER DISPERSIBLE GRANULAR HERBICIDE

GROUP	5	15	HERBICIDES
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**FOR CONTROL OF ANNUAL GRASSES AND CERTAIN BROADLEAF WEEDS IN FIELD  
CORN AND SOYBEANS**

**FOR SALE FOR USE IN EASTERN CANADA ONLY**

**AGRICULTURAL**

GUARANTEE:	Flufenacet .....	54.4%
	Metribuzin .....	13.6%

**REGISTRATION NO. 26233 PEST CONTROL PRODUCTS ACT**

**READ THE LABEL AND BOOKLET BEFORE USING  
KEEP OUT OF REACH OF CHILDREN**



**WARNING... POISON**

**POTENTIAL SKIN SENSITIZER**

**NET CONTENTS: 10 Kg, 227 Kg, 454 Kg**

**Product Information: 1-888-283-6847**

Bayer CropScience Inc.  
Suite 100, 3131 114th Avenue S.E.  
Calgary, Alberta T2Z 3X2

**In case of spills, poisoning or fire, telephone emergency response number 1-800-334-7577  
(24 hours a day).**

**NOTICE TO USER:** This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

## PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN. Harmful if swallowed, inhaled or absorbed through skin. Causes eye irritation. Prolonged or frequently repeated skin contact may cause allergic skin reactions in some individuals. Avoid contact with skin, eyes, or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling. Do not contaminate food or feed.

Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Obtain prompt medical aid if poisoning should occur. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Wear long-sleeved shirt, long pants, coveralls and chemical-resistant gloves during mixing/loading, applying clean-up and repair activities. Remove personal protective equipment immediately after handling this product. Wash the outside of the gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Follow manufacturer's instructions for cleaning/maintaining Personal Protective Equipment (PPE). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**Note:** If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's website at: [www.croplife.ca](http://www.croplife.ca).

## FIRST AID

If swallowed	Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.
If on skin or clothing	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.
If inhaled	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.
If in eyes	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 eye. Call a poison control centre or doctor for further treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

## **TOXICOLOGICAL INFORMATION**

**TO PHYSICIAN:** No specific antidote is available. Treat the patient symptomatically.

## **ENVIRONMENTAL HAZARDS**

Do not use on other crops grown for food or forage. Do not apply directly to water, or to areas where surface water is present. Do not contaminate water when disposing of equipment wash waters. Do not apply when weather conditions favour drift from areas treated.

This product is toxic to fish, aquatic plants and non-target terrestrial plants. Overspray or drift to sensitive habitats should be avoided. Do not allow sprays to drift on to adjacent desirable plants. Observe buffer zones specified under DIRECTIONS FOR USE. Do not contaminate these habitats when cleaning and rinsing spray equipment and containers or disposal of waste.

Flufenacet and metribuzin have properties that may result in contamination of groundwater particularly in areas where soils are permeable (e.g., sandy soil) and/or the depth to the water table is shallow. Following application and during rainfall events that cause runoff, these chemicals may reach surface water bodies including streams and reservoirs. To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to, heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g., soils that are compacted, fine textured or low in organic matter such as clay). Avoid application of this product when heavy rain is forecast.

## **STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Store in cool, dry, well ventilated place and in such a manner as to prevent cross contamination with other pesticides, seed, fertilizers, food, and feed. Store in original container and out of reach of children, preferably in a locked storage area. Heated storage is not required for AXIOM DF Herbicide.

**PESTICIDE DISPOSAL:** For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

## **DISPOSAL OF RECYCLABLE CONTAINER**

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.

2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

## **DISPOSAL OF REFILLABLE CONTAINER (ACCUBIN)**

**GENERAL INFORMATION:** The NET CONTENTS of this container is actually greater than 227/454 kg. The unit will only dispense up to the purchase quantity of 227/454 kg, leaving a small amount in the container. This amount is necessary to ensure accurate metering of purchased product down to the last kilogram.

This container and all attached or associated equipment are the property of Bayer CropScience Inc., Suite 100, 3131 114th Avenue S.E. ; Calgary, Alberta T2Z 3X2. This unit is designed for recycle and refill. Your cooperation in this reusable packaging program will contribute to a cleaner environment and assure that this convenient packaging continues to be available.

1. After use, return the container to the point of purchase or designated locations.
2. This container must **only** be refilled with **AXIOM DF Herbicide (68%)** at designated locations.
3. Do not reuse container for other purposes.
4. Prior to refilling inspect thoroughly for damage.
5. Check for leaks after refilling and before transportation.
6. Do not refill or transport damaged or leaking containers.
7. If the container is not being refilled, return to the point of purchase.

®AXIOM is a registered trademark of Bayer.

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# AXIOM<sup>®</sup> DF

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## **GENERAL INFORMATION**

AXIOM DF 68% Water Dispersible Granular Herbicide is a selective herbicide for control of selected annual grasses and annual broadleaf weeds in field corn (grain and silage) and soybeans. This product may be applied as a pre-plant surface, preplant incorporated or preemergence application either alone or in combination with certain registered herbicides. AXIOM DF 68% Water Dispersible Granular Herbicide will provide effective weed control when applied and subsequently moved into the soil by rainfall, sprinkler irrigation or mechanical tillage prior to weed emergence. When tank mixing, always observe all precautionary statements and limitations on labelling of all products.

## **PRECAUTIONS**

**KEEP OUT OF REACH OF CHILDREN.** Harmful if swallowed, inhaled or absorbed through skin. Causes eye irritation. Prolonged or frequently repeated skin contact may cause allergic skin reactions in some individuals. Avoid contact with skin, eyes, or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling. Do not contaminate food or feed.

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Obtain prompt medical aid if poisoning should occur. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Wear long-sleeved shirt, long pants, coveralls and chemical-resistant gloves during mixing/loading, applying clean-up and repair activities. Users should remove personal protective equipment immediately after handling this product. Wash the outside of the gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Follow manufacturer's instructions for cleaning/maintaining Personal Protective Equipment (PPE). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

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If inhaled	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.
If in eyes	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 eye. Call a poison control centre or doctor for treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

## TOXICOLOGICAL INFORMATION

TO PHYSICIAN: No specific antidote is available. Treat the patient symptomatically.

**ENVIRONMENTAL HAZARDS** Do not use on other crops grown for food or forage. Do not apply directly to water, or to areas where surface water is present. Do not contaminate water when disposing of equipment wash waters. Do not apply when weather conditions favour drift from areas treated.

This product is toxic to fish, aquatic plants and non-target terrestrial plants. Overspray or drift to sensitive habitats should be avoided. Do not allow sprays to drift on to adjacent desirable plants. Observe buffer zones specified under DIRECTIONS FOR USE. Do not contaminate these habitats when cleaning and rinsing spray equipment and containers or disposal of waste.

Flufenacet and metribuzin have properties that may result in contamination of groundwater particularly in areas where soils are permeable (e.g., sandy soil) and/or the depth to the water table is shallow. Following application and during rainfall events that cause runoff, these chemicals may reach surface water bodies including streams and reservoirs. To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to, heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g., soils that are compacted, fine textured or low in organic matter such as clay). Avoid application of this product when heavy rain is forecast.

## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store in cool, dry, well ventilated place and in such a manner as to prevent cross contamination with other pesticides, seed, fertilizers, food, and feed. Store in original container and out of reach of children, preferably in a locked storage area. Heated storage is not required for AXIOM DF 68% Water Dispersible Granular Herbicide.

**PESTICIDE DISPOSAL:** For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

### DISPOSAL OF RECYCLABLE CONTAINER

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1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

### DISPOSAL OF REFILLABLE CONTAINER (ACCUBIN)

1. After use, return the container to the point of purchase or designated locations.
2. This container must **only** be refilled with **AXIOM DF Herbicide (68%)** at designated locations.
3. Do not reuse container for other purposes.
4. Prior to refilling inspect thoroughly for damage.
5. Check for leaks after refilling and before transportation.
6. Do not refill or transport damaged or leaking containers.
7. If the container is not being refilled, return to the point of purchase.

## **DIRECTIONS FOR USE**

### **GENERAL USE RESTRICTIONS**

AXIOM DF 68% Water Dispersible Granular Herbicide is for use on soybeans, grain corn and corn grown for silage. Do not use on popcorn, sweet corn, white corn or corn grown for seed. Do not use on other crops grown for food or forage.

Do not apply more than 1.47 Kg/ha of AXIOM DF 68% Water Dispersible Granular Herbicide per season.

If the crop treated with AXIOM DF 68% Water Dispersible Granular Herbicide is lost, corn or soybeans may be replanted immediately. **Do not** make a second application of AXIOM DF 68% Water Dispersible Granular Herbicide. Winter wheat may be planted 4 months after an AXIOM DF 68% Water Dispersible Granular Herbicide application.

Do not use flood irrigation to apply, activate or incorporate AXIOM DF 68% Water Dispersible Granular Herbicide.

Cool, wet soil conditions which occur shortly after planting and application of this product may cause slight, temporary stunting of corn and soybeans. However, under good growing conditions the plants recover quickly and yields are not affected.

Weed control may not be adequate under severe drought conditions.

### **RE-ENTRY INTERVAL**

Do not enter or allow re-entry into treated areas until 12 hours after application. Exception: If the product is soil-injected or soil-incorporated, workers may enter the treated area if there will be no contact with anything that has been treated.

It is recommended that this product not be applied in a way that will contact workers or other persons, either directly or through drift. Only handlers wearing personal protective equipment may be in the area during application.

### **SPRAY DRIFT MANAGEMENT**

Do not apply this product or tank mixtures with this product when environmental conditions may favour drift to non-target sites. Do not allow sprays to drift on to adjacent desirable plants.

Field sprayer application: **DO NOT** apply during periods of dead calm or when winds are gusty or when wind speed is greater than 15 km/hr at 2 metres high above ground at the site of application. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification.

Apply AXIOM DF 68% Water Dispersible Granular Herbicide only with ground equipment. Do not apply via chemigation. **DO NOT** apply by air.

## BUFFER ZONES

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelterbelts, woodlots, hedgerows, pastures, rangelands, and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, and wetlands), and estuarine/marine habitats.

Crop	Method of Application	Buffer Zones (metres) Required for the Protection of:		
		Freshwater Habitats	Estuarine/Marine Habitats	Terrestrial Habitat
Soybean	Field sprayer	40	40	24

When a tank mixture is used, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture.

## MIXING INSTRUCTIONS

AXIOM DF 68% Water Dispersible Granular Herbicide is a dry flowable herbicide that must be mixed with water for application.

Before mixing AXIOM DF 68% Water Dispersible Granular Herbicide and its labelled tank mixtures, examine the spray equipment making sure it is completely clean and free of rust or corrosion. To ensure the equipment is free of any residues from previously used pesticides, flush lines with clean water or recommended detergents. Use an approved method for disposing of rinse water.

The proper mixing sequence for AXIOM DF 68% Water Dispersible Granular Herbicide and recommended tank mixtures is as follows:

1. Fill the spray tank or nurse tank 1/4 full with water.
2. Start recirculation and agitation system and continue throughout mixing and application.
3. If tank mixing with wettable powders or other dry flowable products, make a slurry of these products with water then add slowly to the spray tank.
4. If tank mixing with emulsifiable concentrates or soluble products, add these products to the spray tank.
5. If tank mixing with Roundup Herbicide, add it to the spray tank.
6. Fill the spray tank with water to the desired level.
7. Continue agitation during transport and application until the spray tank is empty.

AXIOM DF 68% Water Dispersible Granular Herbicide 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 can stand before application.

## APPLICATION INFORMATION

### Ground Broadcast Treatment:

Accurately calibrate the sprayer prior to mixing the herbicide treatments. Apply AXIOM DF 68% Water Dispersible Granular Herbicide and the labelled tank mixtures in no less than the minimum volume recommended by the tank mix product or AXIOM DF 68% Water Dispersible Granular Herbicide recommendation, whichever is highest. Use nozzle screens and in-line strainers no finer than 0.3 mm (50 mesh).

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 DF 68% Water Dispersible Granular Herbicide and the recommended tank mixtures may be applied as a band treatment. Use the following formula to calculate the amount of herbicide needed for band treatments:

$$\frac{\text{Band width in centimetres}}{\text{Row width in centimetres}} \times \text{Broadcast rate / ha} = \text{Band rate / ha}$$

## APPLICATION METHODS AND TIMING

### Application Timing:

AXIOM DF 68% Water Dispersible Granular Herbicide may be applied either alone or in tank mixtures with certain other registered and recommended herbicides. Applications may be made preplant surface, preplant incorporated, or preemergence. Do not apply when environmental conditions favour drift.

### Preplant Surface:

For use in conservation tillage, minimum-tillage or no-tillage crop production systems, AXIOM DF 68% Water Dispersible Granular Herbicide alone or as a recommended tank mixture may be applied as a broadcast spray up to 7 days before planting. If weeds are present at the time of application, apply the AXIOM DF 68% Water Dispersible Granular Herbicide treatment in tank mixture with Roundup 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. Rainfall after application and before planting will improve weed control. Apply AXIOM DF 68% Water Dispersible Granular Herbicide in a minimum of 200 L/ha of total volume.

### Preplant Incorporation:

Apply AXIOM DF 68% Water Dispersible Granular Herbicide alone or in combination with recommended tank mixes as a broadcast spray and incorporate into the upper 2.5 to 5 cm of the soil surface up to 7 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.). Apply this product in a minimum of 200 L/ha of total volume.

- Applications may be made up to 7 days before planting
- Immediate incorporation is not necessary
- Incorporation equipment should include rolling or western harrows.

TYPE OF EQUIPEMENT	MAXIMUM WORKING DEPTH	MINIMUM SPEED
“S”-Tine (Danish) cultivator	10 cm	10 km/hr
“C”-Tine cultivator with overlapping sweeps	10 cm	10 km/hr
Tandem disc (max. 18 cm spacing between discs)	10 cm	6 km/hr
Power driven cultivator	5 cm	any
Mulch Master	5 cm	10 km/hr

**Preemergence:**

AXIOM DF 68% Water Dispersible Granular Herbicide alone, or in the recommended tank mixes, may be applied to the soil surface as a broadcast spray after planting of the crop, but prior to weed or crop emergence.

**For conservation tillage systems:** If weeds are present at the time of application, apply the AXIOM DF 68% Water Dispersible Granular Herbicide treatment in tank mixture with Roundup Herbicide.

Rainfall and/or overhead sprinkler irrigation is necessary to move this product 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 1.25 cm deep) will improve performance and minimize crop damage. Excessive rainfall or irrigation after application may reduce weed control. Apply this product in a minimum of 200 L/ha of total volume.

**WEEDS CONTROLLED**

AXIOM DF 68% Water Dispersible Granular Herbicide applied at recommended dosages and application timings will control the following annual grass and broadleaf weeds.

ANNUAL GRASS WEEDS		ANNUAL BROADLEAF WEEDS <sup>1</sup>
Barnyard grass <sup>3</sup> Crabgrass, large Panicum, fall	Foxtail, giant green yellow <sup>3</sup>	Lambs quarters, common <sup>2</sup> Ragweed, common <sup>2, 4</sup> Redroot pigweed

<sup>1</sup> Control of triazine-resistant biotypes of these species may not be acceptable with this product alone. For control of triazine-resistant weeds, AXIOM DF 68% Water Dispersible Granular Herbicide can be tank-mixed with a non-triazine herbicide or followed with a sequential postemergence application of a non-triazine herbicide.

<sup>2</sup> **Suppression only.** Suppressed weeds will be stunted in growth and/or reduced in populations compared with an untreated area, but control will generally not be commercially acceptable. For best suppression of these species, use the highest recommended rates according to soil texture.

<sup>3</sup> Control on medium and fine textured soils only.

<sup>4</sup> Suppression on medium and fine textured soils only.

**RATE SELECTION/SOIL TEXTURE**

The recommended use rates of AXIOM DF 68% Water Dispersible Granular Herbicide are dependent upon soil texture and organic matter content of the soil being treated. Rate tables in 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 representative, Soils & Crops Advisor, or other knowledgeable persons. The following chart includes a complete listing of soil textures included in each of the soil texture groupings:

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

## **SOYBEANS**

- Applications of AXIOM DF 68% Water Dispersible Granular Herbicide may result in burning, yellowing or stunting of the crop. Such injury is most likely to occur when application is made at above recommended rates. Avoid application at rates in excess of those specified for each soil texture grouping.
- If heavy rains occur soon after an AXIOM DF 68% Water Dispersible Granular Herbicide application, plant injury may result, especially in poorly drained areas where water may stand for several days.
- Soybean seeds must be planted at least 4 cm below the soil surface.
- **VARIETIES:** Some soybean varieties may be sensitive to AXIOM DF 68% Water Dispersible Granular Herbicide. Consult your Bayer representative, chemical dealer, or your seed supplier for information on the tolerance of soybean varieties, prior to the use of this product.
- **DO NOT USE THIS PRODUCT ON SANDY SOILS OR ON COARSE SOILS WITH LESS THAN 2% ORGANIC MATTER**
- Use the higher rate of AXIOM DF 68% Water Dispersible Granular Herbicide within the applicable rate ranges listed under any of the following circumstances:
  1. heavy plant residues on soil surface
  2. heavy weed pressure
  3. higher soil organic matter
- Do not graze or feed soybean forage, hay or straw treated with this product to livestock.

## Preplant Surface (up to 7 days before planting) and Pre-emergence Application in Conservation Tillage

Weeds controlled	Products <sup>1</sup>	Rates per hectare and soil texture groupings		
		COARSE (with >2% organic matter)	MEDIUM	FINE
Annual grasses and control or suppression of non-triazine resistant annual broadleaf weeds	AXIOM DF 68% Water Dispersible Granular Herbicide	Do not use	1.12 - 1.26 kg	1.26 - 1.47 kg
Annual grasses and non-triazine resistant annual broadleaf weeds	AXIOM DF 68% Water Dispersible Granular Herbicide plus Sencor 75DF	Do not use	1.12 kg 0.65 kg	1.26 kg 0.83 kg
Annual grasses and annual broadleaf weeds including triazine resistant weeds	AXIOM DF 68% Water Dispersible Granular Herbicide plus Lorox DF dry flowable	Do not use	1.12 kg 2.0 kg	1.26 kg 2.3 kg
	AXIOM DF 68% Water Dispersible Granular Herbicide plus Sencor 75DF plus Lorox DF dry flowable	Do not use	1.12 kg 0.6 kg 1.7 kg	1.26 kg 0.65 kg 2.0 kg
	AXIOM DF 68% Water Dispersible Granular Herbicide plus Pursuit (240 g a.e./L)	Do not use	1.12 kg 310 mL	1.26 kg 310 mL
For burndown of above including control of weeds taller than 4 cm and perennial weeds <sup>2</sup> .	One of the above treatments plus Roundup Original 360 Liquid or Roundup Transorb Liquid	Do not use Do not use	2.5 L 2.5 L	2.5 L 2.5 L

1. Refer to the other product label for pertinent recommendations, directions for use, restrictions, precautions and any additional weeds not specified on this label. Observe the largest (most restrictive) buffer zone of the products involved in the tank mixture. Unless prohibited on this or other product labels, apply as a broadcast or band application.
2. The level of control for Quackgrass may be reduced when AXIOM DF 68% Water Dispersible Granular Herbicide is tank mixed with Roundup Herbicide.

**Preplant Incorporated Application (up to 7 days before planting)**

Weeds controlled	Products <sup>1</sup>	Rates per hectare and soil texture groupings		
		COARSE (with > 2% organic matter)	MEDIUM	FINE
Annual grasses and suppression of non-triazine resistant annual broadleaf weeds	AXIOM DF 68% Water Dispersible Granular Herbicide	0.84 - 1.12 kg	1.12 - 1.26 kg	1.26 - 1.47 kg
Annual grasses and non-triazine resistant annual broadleaf weeds	AXIOM DF 68% Water Dispersible Granular Herbicide plus Sencor 75DF	0.84 kg	1.12 kg	1.26 kg
		0.5 kg	0.65 kg	0.83 kg

1. Refer to the other product label for pertinent recommendations, directions for use, restrictions, precautions and any additional weeds not specified on this label. Observe the largest (most restrictive) buffer zone of the products involved in the tank mixture. Unless prohibited on this or other product labels, apply as a broadcast or band application.

## Pre-Emergence Application in Conventional Tillage

Weeds controlled	Products <sup>1</sup>	Rates per hectare and soil texture groupings		
		COARSE (with > 2% organic matter)	MEDIUM	FINE
Annual grasses and control or suppression of non-triazine resistant annual broadleaf weeds	AXIOM DF 68% Water Dispersible Granular Herbicide	0.84 - 1.12 kg	1.12 - 1.26 kg	1.26 - 1.47 kg
Annual grasses and non-triazine resistant annual broadleaf weeds	AXIOM DF 68% Water Dispersible Granular Herbicide	0.84 kg	1.12 kg	1.26 kg
	plus Sencor 75DF	0.5 kg	0.65 kg	0.83 kg
Annual grasses and annual broadleaf weeds including triazine resistant weeds	AXIOM DF 68% Water Dispersible Granular Herbicide	0.84 kg	1.12 kg	1.26 kg
	plus Lorox DF dry flowable	1.7 kg	2.0 kg	2.3 kg
	AXIOM DF 68% Water Dispersible Granular Herbicide	0.84 kg	1.12 kg	1.26 kg
	plus Sencor 75DF	0.5 kg	0.6 kg	0.65 kg
	plus Lorox DF dry flowable	1.4 kg	1.7 kg	2.0 kg
	AXIOM DF 68% Water Dispersible Granular Herbicide	0.84 kg	1.12 kg	1.26 kg
Annual Grasses and Annual Broadleaf weeds: common lambs-quarters, common ragweed, velvetleaf, cocklebur, redroot pigweed, barnyard grass <sup>2</sup> , large crabgrass, fall panicum, and giant, green and yellow <sup>2</sup> foxtail.	AXIOM DF 68% Water Dispersible Granular Herbicide	0.84 kg	1.12 kg	1.26 kg
	plus FirstRate	20.8 g	20.8 g	20.8 g

1. Refer to the other product label for pertinent recommendations, directions for use, restrictions, precautions and any additional weeds not specified on this label. Observe the largest (most restrictive) buffer zone of the products involved in the tank mixture. Unless prohibited on this or other product labels, apply as a broadcast or band application.
2. Control on medium and fine textured soils only.

## **CORN**

- Applications of AXIOM DF 68% Water Dispersible Granular Herbicide may result in burning, yellowing or stunting of the crop. Such injury is most likely to occur when application is made at above recommended rates. Avoid application at rates in excess of those specified for each soil texture grouping.
- If heavy rains occur soon after application, plant injury may result, especially in poorly drained areas where water may stand for several days.
- Corn seeds must be planted at least 4 cm below the soil surface.
- **DO NOT USE THIS PRODUCT ON SANDY SOILS OR ON COARSE SOILS WITH LESS THAN 2% ORGANIC MATTER**
- Use the higher rate of AXIOM DF 68% Water Dispersible Granular Herbicide within the applicable rate ranges listed under any of the following circumstances:
  1. heavy plant residues on soil surface
  2. heavy weed pressure
  3. higher soil organic matter
- Do not graze or feed corn treated with this product to livestock within 60 days of application.

## Preplant Surface (up to 7 days before planting) and Pre-emergence Application in Conservation Tillage

Weeds controlled	Products <sup>1</sup>	Rates per hectare and soil texture groupings		
		COARSE (with > 2% organic matter)	MEDIUM	FINE
Annual grasses and control or suppression of non-triazine resistant annual broadleaf weeds	AXIOM DF 68% Water Dispersible Granular Herbicide	Do not use	1.12 - 1.26 kg	1.26 - 1.47 kg
Annual grasses and non-triazine resistant annual broadleaf weeds	AXIOM DF 68% Water Dispersible Granular Herbicide plus AAtrex Nine-0	Do not use	1.12 kg 1.4 kg	1.26 kg 1.65 kg
Annual grasses and annual broadleaf weeds including triazine resistant weeds	AXIOM DF 68% Water Dispersible Granular Herbicide plus Banvel II <sup>2</sup>	Do not use	1.12 kg 1.25 L	1.26 kg 1.25 L
	AXIOM DF 68% Water Dispersible Granular Herbicide plus Marksman <sup>2</sup>	Do not use	1.12 kg 4 L	1.26 kg 4.3 L
For burndown of above including control of weeds taller than 4 cm and perennial weeds <sup>3</sup>	One of the above treatments  plus Roundup Original 360 Liquid or Roundup Transorb Liquid	Do not use Do not use	2.5 L 2.5 L	2.5 L 2.5 L

- 1 Refer to the other product label for pertinent recommendations, directions for use, restrictions, precautions and any additional weeds not specified on this label. Observe the largest (most restrictive) buffer zone of the products involved in the tank mixture. Unless prohibited on this or other product labels, apply as a broadcast or band application.
- 2 DO NOT USE this tank mixture in **Pre-Plant Surface applications**.
- 3 The level of control for Quackgrass may be reduced when AXIOM DF 68% Water Dispersible Granular Herbicide is tank mixed with Roundup Herbicide.

### Preplant Incorporated Application (up to 7 days before planting)

Weeds controlled	Products <sup>1</sup>	Rates per hectare and soil texture groupings		
		COARSE (With > 2% organic matter)	MEDIUM	FINE
Annual grasses and suppression of non-triazine resistant annual broadleaf weeds	AXIOM DF 68% Water Dispersible Granular Herbicide	0.84 - 1.12 kg	1.12 - 1.26 kg	1.26 - 1.47 kg
Annual grasses and non-triazine resistant annual broadleaf weeds	AXIOM DF 68% Water Dispersible Granular Herbicide plus AAtrex Nine-0	0.84 kg	1.12 kg	1.26 kg
		1.1 kg	1.4 kg	1.65 kg

- 1 Refer to the other product label for pertinent recommendations, directions for use, restrictions, precautions and any additional weeds not specified on this label. Observe the largest (most restrictive) buffer zone of the products involved in the tank mixture. Unless prohibited on this or other product labels, apply as a broadcast or band application.

### Pre-Emergence Application in Conventional Tillage

Weeds controlled	Products <sup>1</sup>	Rates per hectare and soil texture groupings		
		COARSE (With > 2% organic matter)	MEDIUM	FINE
Annual grasses and control or suppression of non-triazine tolerant annual broadleaf weeds	AXIOM DF 68% Water Dispersible Granular Herbicide	0.84 - 1.12 kg	1.12 - 1.26 kg	1.26 - 1.47 kg
Annual grasses and non-triazine resistant annual broadleaf weeds	AXIOM DF 68% Water Dispersible Granular Herbicide plus AAtrex Nine-0	0.84 kg	1.12 kg	1.26 kg
		1.1 kg	1.4 kg	1.65 kg
Annual grasses and annual broadleaf weeds including triazine resistant weeds	AXIOM DF 68% Water Dispersible Granular Herbicide plus Banvel II	0.84 kg	1.12 kg	1.26 kg
		1.25 L	1.25 L	1.25 L
	AXIOM DF 68% Water Dispersible Granular Herbicide plus Marksman	0.84 kg	1.12 kg	1.26 kg
		3.5 L	4 L	4.3 L

- 1 Refer to the other product label for pertinent recommendations, directions for use, restrictions, precautions and any additional weeds not specified on this label. Observe the largest (most restrictive) buffer zone of the products involved in the tank mixture. Unless prohibited on this or other product labels, apply as a broadcast or band application.

### **RESISTANCE-MANAGEMENT RECOMMENDATIONS**

For resistance management, please note that AXIOM DF 68% Water Dispersible Granular Herbicide is both a Group 5 and a Group 15 herbicide. Any weed population may contain or develop plants naturally resistant to this product and other Group 5 and/or Group 15 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same fields.

Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

#### **To delay herbicide resistance:**

- Where possible, rotate the use of AXIOM DF 68% Water Dispersible Granular Herbicide or other Group 5 and Group 15 herbicides with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group when such use is permitted.
- Herbicide use should be based on an IPM program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical), cultural, biological and other chemical control practices.
- Monitor treated weed populations for resistance development.
- Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment and planting clean seed.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance contact Bayer CropScience Inc. via internet at [www.bayercropscience.ca](http://www.bayercropscience.ca) or phone 1-888-283-6847.

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