

Container Label

GROUP	2	15	HERBICIDE
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ZIDUA® Prime

NOT FOR USE IN MANITOBA, SASKATCHEWAN AND ALBERTA

HERBICIDE

SUSPENSION CONCENTRATE

COMMERCIAL (AGRICULTURAL)

ACTIVE INGREDIENTS: Pyroxasulfone – 273.5 g/L
Imazethapyr (present as potassium salt) – 159.5 g a.e./L

Contains 1,2-benzisothiazolin-3-one at 0.03440%, 5-chloro-2-methyl-4-isothiazolin-3-one at 0.00096%, 2-methyl-4-isothiazolin-3-one at 0.00032% and 2-bromo-2-nitropropane-1,3-diol at 0.02070%, as preservatives

REGISTRATION NO. 36072

PEST CONTROL PRODUCTS ACT

**IN CASE OF EMERGENCY ENDANGERING LIFE OR PROPERTY
INVOLVING THIS PRODUCT, CALL DAY OR NIGHT,
1-800-454-2673**

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

WARNING – Contains the allergen soy

NET CONTENTS: 0.1 L to 1000 L
BASF Agricultural Solutions Canada Inc.
510 - 28 Quarry Park Blvd. SE
Calgary, Alberta T2C 5P9

1-877-371-2273

ZIDUA is a registered trade-mark of BASF SE, used under license by BASF Agricultural Solutions Canada Inc.

PRECAUTIONS

1. **KEEP OUT OF REACH OF CHILDREN.**
2. MAY BE HARMFUL if swallowed, inhaled or absorbed through the skin.
3. Avoid breathing vapour or spray mist.
4. Avoid contact with skin, eyes or clothing.
5. DO NOT eat, drink or smoke/vape while using this product. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum/tobacco, smoking/vaping, using the toilet or handling mobile devices. Vehicle cabs MUST be decontaminated regularly.
6. Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. Gloves are not required during application within a closed cab.
7. If the product comes in contact with clothing/PPE, remove all contaminated clothing/PPE, wash the outside of gloves with soap and water before removing, wash contaminated skin with soap and water, and then dress in clean clothing. Launder contaminated clothing/PPE regularly and separately from other laundry. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Heavily contaminated or drenched clothing and other absorbent materials contaminated with this product should be discarded. DO NOT reuse them.
8. Apply only when the potential for drift beyond the area to be treated is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.
9. DO NOT apply by air.
10. DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

[Optional statement for smaller container sizes]

Please refer to the booklet for the complete list of Precautions.

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5. DO NOT apply by air.

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 treatment advice.

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

TOXICOLOGICAL INFORMATION

Treat symptomatically.

Contains methanol. Methanol may cause blindness.

ENVIRONMENTAL PRECAUTIONS

Toxic to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE.

This product demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay. Avoid application when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body. Additional guidance can be found on the Runoff Mitigation portion of the Canada.ca website.

[Optional statement for smaller container sizes]

Please refer to the booklet for the complete list of Environmental Precautions.

Toxic to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE.

STORAGE

Store this product away from food or feed.

Store in original container in cool, dry, well-ventilated location.

DISPOSAL

For Recyclable Containers

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 rinsing 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 or territorial requirements.

Refillable Containers

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. DO NOT reuse this container for any other purpose.

For information on disposal of unused, unwanted product, contact the registrant or the provincial or territorial regulatory agency. Contact the registrant and the provincial or territorial regulatory agency in case of a spill, and for cleanup of spills.

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 Product Act* to use this product in a way that is inconsistent with the directions on the label.

Date of proposed label - March 28, 2025

Booklet

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REGISTRATION NO. XXXXX

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TOXICOLOGICAL INFORMATION

Treat symptomatically.

Contains methanol. Methanol may cause blindness.

ENVIRONMENTAL PRECAUTIONS

TOXIC to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE.

This product demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay. Avoid application when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body. Additional guidance can be found on the Runoff Mitigation portion of the Canada.ca website.

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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 Product Act* to use this product in a way that is inconsistent with the directions on the label.

DIRECTIONS FOR USE

ZIDUA® Prime is a suspension concentrate herbicide for the control of labelled grasses and broadleaf weeds in soybeans.

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

SPRAY BUFFER ZONES

Field sprayer application: DO NOT apply when wind speed is less than 1 km/h. Avoid application of this product when winds are gusty. DO NOT apply with spray droplets finer than the American Society of Agricultural and Biological Engineers (ASABE) S572 (572.1 to 572.3) medium classification. Boom height must be 60 cm or less above the crop or ground.

A spray buffer zone is NOT required for:

- uses with hand-held application equipment permitted on this label,
- low-clearance hooded or shielded sprayers that prevent spray contact with crop, fruit or foliage.

The spray 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, shelter belts, woodlots, hedgerows, riparian areas and shrublands) and sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of Application	Crop/Site	Spray Buffer Zones (metres) Required for the Protection of:				
		Freshwater Habitat of Depths:		Estuarine/Marine Habitat of Depths:		Terrestrial Habitat:
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer	Soybean	5	3	0	0	1

When tank mixes are permitted, consult the labels of the tank mix partners and observe the largest (most restrictive) spray buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASABE) category indicated on the labels for those tank mix partners.

The spray buffer zones for this product for conventional application equipment can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Drift Mitigation portion of the Canada.ca website.

SOYBEANS

WEEDS CONTROLLED

ZIDUA Prime can be applied as a pre-emergence or early post-emergence treatment to soybeans up to and including third trifoliate leaf stage and prior to flowering. Crop seeds must be planted a minimum 4 cm deep.

When **ZIDUA Prime** is applied for the residual control of labelled weeds, **ZIDUA Prime** is to be applied at a rate range of 0.33 – 0.44 L/ha. Application rates are for all soil types. Use the higher rate for extended residual control or when heavier weed populations are present. **ZIDUA Prime** must be applied and activated prior to weed seedling emergence.

When **ZIDUA Prime** is applied for the burndown control of labelled weeds, **ZIDUA Prime** is to be applied at a rate of 0.44 L/ha and in tank mix with a non-ionic surfactant (e.g. Agral 90) and a nitrogen source (e.g. UAN 28%). Apply before weeds reach 2 true leaf stage.

Weeds	RESIDUAL CONTROL	BURNDOWN CONTROL
	Use rate	Use rate
	ZIDUA Prime at 0.33 L/ha - 0.44 L/ha	ZIDUA Prime at 0.44 L/ha + Non-ionic surfactant at 0.25% v/v + Nitrogen source at 2 L/ha
Broadleaf Weeds		
Cleavers	S ¹	
Cocklebur		C ²
Common chickweed	S	
Common ragweed	C ³	PC
Common waterhemp	S	
Eastern black nightshade	C	C
Kochia	S ¹	
Lady's thumb	C ³	
Lamb's-quarters	C	PC
Palmer amaranth	S	
Redroot pigweed	C	C
Shepherd's- purse	S	
Smartweed	C	
Velvetleaf	C ⁴	C ⁴
Wild buckwheat	S	PC
Wild mustard	C	C
Grasses		
Barnyard grass	C ³	PC
Downy brome	S	
Foxtail (green, yellow)	C	C
Japanese brome	S	
Large crabgrass		PC

Weeds	RESIDUAL CONTROL	BURNDOWN CONTROL
	Use rate	Use rate
	ZIDUA Prime at 0.33 L/ha - 0.44 L/ha	ZIDUA Prime at 0.44 L/ha + Non-ionic surfactant at 0.25% v/v + Nitrogen source at 2 L/ha
Old witchgrass	C ³	C
Proso millet	PC	PC
Wild oat	S	
Woolly cupgrass	S	
Perennials		
Yellow nutsedge		PC

S - Early season residual suppression

C - Control

PC - Partial Control and Reduces Competition

¹ Including Group 2 resistant biotypes

² Some plants that germinate deeper in the soil and emerge late may escape treatment. Heavy infestations of this weed species may only be suppressed.

³ Tank mixing is recommended for fields with a history of heavy infestations of this weed species.

⁴ Some plants that germinate deeper in the soil and emerge late may escape treatment.

APPLICATION INFORMATION

Moisture is necessary to activate **ZIDUA Prime** in soil for residual weed control. Dry weather following applications of **ZIDUA Prime** may reduce residual effectiveness. However, when adequate moisture is received after dry conditions, **ZIDUA Prime** will control susceptible germinating weeds. When adequate moisture is not received after **ZIDUA Prime** application, weed control may be improved by irrigation.

Emerged weeds in pre-emergent applications which reach the 2- 3 true leaf stage might be considered as escapes. Shallow cultivation or application of a post-emergent herbicide is recommended. DO NOT cultivate deeply.

Post-emergent application of **ZIDUA Prime** to soybeans may cause stunting. This condition is the result of stem inter-node shortening and does not cause yield reductions if **ZIDUA Prime** has been used at label rates and following label recommendations

The use of **ZIDUA Prime** may result in temporary growth suppression if extreme conditions of high rainfall and extended periods of water-saturated soil occur during soybean germination or early seedling development. These suppressions have not resulted in reduced soybean yield potential.

Applications to crops under stress due to either inadequate or excess of moisture for normal crop development, cool and hot temperatures, sodic soils, poorly drained soils, hail damage, flooding, pesticide injury, mechanical injury or widely fluctuating temperatures may result in crop injury.

DO NOT use flood irrigation to activate or incorporate **ZIDUA Prime**.

DO NOT use on peat or muck soils and soils with 7% or more organic matter content.

DO NOT apply through any type of irrigation system.

DO NOT contaminate irrigation ditches or water used for domestic purposes.

DO NOT apply **ZIDUA Prime** or **ZIDUA Prime** tank mixtures when environmental conditions may result in drift to non-target sites.

Drift of this product may be harmful to non-target plants near the treatment area.

DO NOT apply during periods of gusty winds.

Apply in a minimum water volume of 100 L/ha.

Consult nozzle manufacturer's recommendation for spray pressures for specific nozzles.

Tank Mix Options

This product may be tank mixed with a fertilizer, a supplement or with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact BASF Agricultural Solutions Canada Inc. ("BASF") at 1-877-371-2273 for information before mixing any pesticide that is not specifically recommended on this label."

Tank Mix Compatibility Determination: To determine compatibility, mix all components of the finished spray in proportionate quantities in a small jar. Add components to the test jar in the following order: wettable powders and water dispersible granules, liquid flowables and suspensions, emulsifiable concentrate formulations, and solutions. If the mixture does not ball-up or form flakes, sludge, jelly, oily films or layers, or other precipitates within 2 hours after mixing and can easily be resuspended with agitation, then the tested spray-mix is compatible. Always follow the most restrictive label regarding any precautions when tank mixing.

ZIDUA Prime may also be applied in tank mix for the control of weeds in addition to those on the **ZIDUA Prime** label. Consult the product label of the tank mix partners for additional weeds controlled. For all tank mixes, apply **ZIDUA Prime** at 0.33- 0.44 L/ha for residual control of weeds on the **ZIDUA Prime** label. If applying **ZIDUA Prime** for the burndown control of weeds on the **ZIDUA Prime** label, the high rate of 0.44 L/ha must be used. Tank mix products and rates are detailed in the following table.

When applying **ZIDUA Prime** with glyphosate as a tank mix partner, use glyphosate present as isopropylamine, potassium, or diammonium salt.

Application timing	Product	Rate
Pre-emergent	ZIDUA Prime + Glyphosate	0.33 – 0.44 L/ha ¹ + Refer to glyphosate label for weeds controlled and registered rates.
	ZIDUA Prime + Metribuzin (e.g., Conquest 480, Sencor 75 DF, Sencor 480 F and Tricor LQ Herbicide) For the burndown control of labelled weeds, ZIDUA Prime must also be applied with: Non-ionic surfactant + Nitrogen source	0.33 – 0.44 L/ha ¹ + 408 – 528 g ai/ha Coarse Soil ² 528 – 840 g ai/ha Medium Soil ³ 840 – 1080 g ai/ha Fine Soil ³ For the burndown control of labelled weeds, ZIDUA Prime must also be applied with: 0.25% v/v + 2 L/ha
	ZIDUA Prime + Metribuzin (e.g., Conquest 480, Sencor 75 DF, Sencor 480 F and Tricor LQ Herbicide) + Glyphosate	0.33 – 0.44 L/ha ¹ + 408 – 528 g ai/ha Coarse Soil ² 528 – 840 g ai/ha Medium Soil ³ 840 – 1080 g ai/ha Fine Soil ³ + Refer to glyphosate label for weeds controlled and registered rates.
	ZIDUA Prime + INTEGRITY® ⁴ + MERGE® Adjuvant + Glyphosate	0.33 – 0.44 L/ha ¹ + 0.37 L/ha + 1 L/ha + Refer to glyphosate label for weeds controlled and registered rates.
	ZIDUA Prime + ERAGON® LQ ⁴ + MERGE Adjuvant + Glyphosate	0.33 – 0.44 L/ha ¹ + 73 mL/ha + 1 L/ha + Refer to glyphosate label for weeds controlled and registered rates.
	ZIDUA Prime + ENGENIA® ⁵ + Glyphosate ⁶	0.33 – 0.44 L/ha ¹ + 0.480 – 1 L/ha + Refer to glyphosate label for weeds controlled and registered rates.
Post-emergent (from emergence up to and including the third trifoliate leaf stage and prior to flowering)	ZIDUA Prime + Glyphosate ⁷	0.33 – 0.44 L/ha ¹ + Refer to glyphosate label for weeds controlled and registered rates.
	ZIDUA Prime + ENGENIA® ⁵ + Glyphosate ^{6, 7}	0.33 – 0.44 L/ha ¹ + 0.480 – 1 L/ha + Refer to glyphosate label for weeds

Application timing	Product	Rate
		controlled and registered rates.
	ZIDUA Prime + BASAGRAN® FORTE Herbicide + Nitrogen source	0.33 – 0.44 L/ha ¹ + Refer to BASAGRAN FORTE Herbicide label for weeds controlled, nitrogen source rate and registered rates.
	ZIDUA Prime + REFLEX LIQUID HERBICIDE ⁸ + Non-ionic surfactant + Nitrogen source	0.33 – 0.44 L/ha ¹ + 1 L/ha + 0.25 %v/v + 2 L/ha
	ZIDUA Prime + ENLIST 1 Herbicide ⁹ +	0.33 – 0.44 L/ha ¹ + Refer to ENLIST 1 Herbicide label for weeds controlled and registered rates.
	ZIDUA Prime + ENLIST 1 Herbicide ⁹ + Glyphosate ⁷	0.33 – 0.44 L/ha ¹ + Refer to ENLIST 1 Herbicide label and glyphosate label for weeds controlled and registered rates.
	ZIDUA Prime + ENLIST DUO Herbicide ⁹	0.33 – 0.44 L/ha ¹ Refer to ENLIST DUO Herbicide label for weeds controlled and registered rates.
	ZIDUA Prime + LIBERTY® 200 SN Herbicide ¹⁰ + Ammonium sulphate ¹¹	0.33 – 0.44 L/ha ¹ Refer to LIBERTY 200 SN Herbicide label for weeds controlled, AMS use rates and registered rates of LIBERTY 200 SN Herbicide.
	ZIDUA Prime + ENLIST 1 Herbicide ⁹ + LIBERTY 200 SN Herbicide ¹⁰ + Ammonium sulphate ¹¹	0.33 - 0.44 L/ha ¹ + Refer to ENLIST 1 Herbicide label for weeds controlled and registered rates. Refer to LIBERTY 200 SN Herbicide label for weeds controlled, AMS use rates and registered rates of Liberty 200 SN Herbicide.
	ZIDUA Prime + CENTURION® ADV + Non-ionic surfactant + Nitrogen source	0.33 - 0.44 L/ha ¹ + Refer to CENTURION ADV label for weeds controlled and registered rates. + 0.25% v/v + 2 L/ha

¹ High rate of 0.44 L/ha is required for extended residual control and for burndown control of **ZIDUA Prime** labelled weeds.

² For NO or MINIMUM TILLAGE: DO NOT USE on sandy soils or coarse soils.
For CONVENTIONAL TILLAGE: DO NOT USE on sandy soils or on coarse soils with less than 2% organic matter.

- Product rate depends on soil organic matter levels, refer to metribuzin label for rates.
- ³ Product rate depends on soil organic matter levels, refer to metribuzin label for rates.
 - ⁴ For Pre-emergent timing, apply prior to when the soybeans cause the ground to crack and no more than three days after planting. DO NOT apply to coarse textured soils with less than 2% organic matter.
 - ⁵ Apply ENGENTIA only to Roundup Ready 2 Xtend Soybeans or XtendFlex Soybeans. SOYBEAN VARIETIES WHICH ARE NOT DESIGNATED AS DICAMBA TOLERANT WILL BE DAMAGED OR DESTROYED BY THIS TREATMENT.
 - ⁶ Only use glyphosate products present as an isopropylamine or potassium salt registered for use in soybeans. Do not tank-mix ENGENTIA with glyphosate products where glyphosate is present as an ammonium salt.
 - ⁷ Apply glyphosate herbicides on glyphosate tolerant soybean varieties only.
 - ⁸ Apply to plants in the 1 to 2- trifoliate leaf stage.
 - ⁹ FOR USE IN ENLIST E3 SOYBEAN ONLY. Application of ENLIST 1 Herbicide to non-ENLIST E3 SOYBEANS will cause serious crop damage and/or crop death and yield loss.
 - ¹⁰ FOR USE on soybean varieties that are specially developed to be tolerant to glufosinate ammonium (for example LibertyLink®, ENLIST™ E3 and XtendFlex™ soybean seeds).
 - ¹¹ Ammonium sulphate to be added to the tank for enhanced control of velvetleaf and jimsonweed.

Tank Mix Options- Tank mix with **Metribuzin**

ZIDUA Prime may also be applied in tank mix combinations with metribuzin (e.g. **Sencor 75 DF**, **Sencor 480 F**, **Conquest 480** and **Tricor LQ Herbicide**) for the control of weeds listed on this label (see weeds listed under “**WEEDS CONTROLLED**”) and those on the corresponding tank mix partner.

Tank mix products and rates are detailed in the following table. Consult the product label of the tank mix partners for additional weeds controlled.

When applying **ZIDUA Prime** with glyphosate as a tank mix partner, use glyphosate present as isopropylamine, potassium, or diammonium salt.

- a) Preplant surface applications (up to 30 days before planting) in No or Minimum Tillage systems:

Products	Rates and soil types		
	COARSE	MEDIUM	FINE
ZIDUA Prime + Metribuzin ¹	Do not use	0.44 L/ha 384- 720 g ai/ha	0.44 L/ha 461- 960 g ai/ha
ZIDUA Prime + Metribuzin ¹ + glyphosate	Do not use	0.44 L/ha 384- 720 g ai/ha See glyphosate label	0.44 L/ha 461- 960 g ai/ha See glyphosate label
ZIDUA Prime + Metribuzin ¹ + PROWL H20 Herbicide + glyphosate	Do not use	0.44 L/ha 384- 720 g ai/ha 2.2 L/ha See glyphosate label	0.44 L/ha 461- 960 g ai/ha 2.2 L/ha See glyphosate label
ZIDUA Prime + Metribuzin ¹ + PROWL H20 Herbicide + ERAGON LQ ² + MERGE Adjuvant + glyphosate	Do not use	0.44 L/ha 384- 720 g ai/ha 2.2 L/ha 73 mL/ha 1 L/ha 900 g ae/ha	0.44 L/ha 461- 960 g ai/ha 2.2 mL/ha 73 mL/ha 1 L/ha 900 g ae/ha
ZIDUA Prime	Do not use	0.44 L/ha	0.44 L/ha

Products	Rates and soil types		
	COARSE	MEDIUM	FINE
+ Metribuzin ¹ + ERAGON LQ ² + MERGE Adjuvant + glyphosate		384- 720 g ai/ha 73 mL/ha 1 L/ha 900 g ae/ha	461- 960 g ai/ha 73 mL/ha 1 L/ha 900 g ae/ha
ZIDUA Prime + Metribuzin ¹ + INTEGRITY ² + MERGE Adjuvant + glyphosate	Do not use	0.44 L/ha 384- 720 g ai/ha 370 mL/ha 1 L/ha See glyphosate label	0.44 L/ha 461- 960 g ai/ha 370 mL/ha 1 L/ha See glyphosate label

¹ For example, Sencor 75 DF, Sencor 480 F, Conquest 480, and Tricor LQ Herbicide. Use the higher rates when weeds are dense and/or soils with high organic matter (over 4%) and at the heavy end of the soil texture class.

² Apply pre-plant from 21 days prior to planting up to the day of planting.

b) Pre-emergent applications in No or Minimum Tillage systems:

Products	Rates and soil types		
	COARSE	MEDIUM	FINE
ZIDUA Prime + Metribuzin ¹	Do not use	0.33 – 0.44 L/ha 384- 720 g ai/ha	0.33 – 0.44 L/ha 461- 960 g ai/ha
ZIDUA Prime + Metribuzin ¹ + glyphosate	Do not use	0.33 – 0.44 L/ha 384- 720 g ai/ha See glyphosate label	0.33 – 0.44 L/ha 461- 960 g ai/ha See glyphosate label
ZIDUA Prime + Metribuzin ¹ + ERAGON LQ ² + MERGE Adjuvant + glyphosate	Do not use	0.33 – 0.44 L/ha 384- 720 g ai/ha 73 mL/ha 1 L/ha 900 g ae/ha	0.33 – 0.44 L/ha 461- 960 g ai/ha 73 mL/ha 1 L/ha 900 g ae/ha
ZIDUA Prime + Metribuzin ¹ + INTEGRITY ² + MERGE Adjuvant + glyphosate	Do not use	0.33 – 0.44 L/ha 384- 720 g ai/ha 370 mL/ha 1 L/ha See glyphosate label	0.33 – 0.44 L/ha 461- 960 g ai/ha 370 mL/ha 1 L/ha See glyphosate label

¹ For example, Sencor 75 DF, Sencor 480 F, Conquest 480, and Tricor LQ Herbicide. Use the higher rates when weeds are dense and/or soils with high organic matter (over 4%) and at the heavy end of the soil texture class.

² For Pre-emergent timing, apply prior to when the soybeans cause the ground to crack and no more than 3 days after planting

c) Pre-emergent applications in Conventional Tillage systems:

Products	Rates and soil types		
	COARSE	MEDIUM	FINE
ZIDUA Prime + Metribuzin ¹	0.33 - 0.44 L/ha 408- 528 g ai/ha	0.33 - 0.44 L/ha 528- 840 g ai/ha	0.33 - 0.44 L/ha 840- 1080 g ai/ha

¹ For example, Sencor 75 DF, Sencor 480 F, Conquest 480, and Tricor LQ Herbicide. The rate of metribuzin depends on soil organic matter levels. See rates for metribuzin alone in the metribuzin labels.

RESTRICTIONS AND LIMITATIONS

1. DO NOT apply by air.
2. **DO NOT** use on peat or muck soils and soils with 7% or more organic matter content.
3. ONLY ONE (1) application of **ZIDUA Prime** may be made during the growing season.

The growing season for **ZIDUA Prime** is defined as the period following the harvest of the preceding crop through the harvest of the planned or current crop.

PRE-HARVEST AND GRAZING INTERVALS (PHI)

The following pre-harvest interval should be observed for **ZIDUA Prime**:

Crop	PHI (days)
Soybeans	100 ¹

¹ Do not graze treated crops or cut for hay.

CROP ROTATIONAL RESTRICTION

Plant Back (in case of crop failure)

If any crop treated with **ZIDUA Prime** is lost, re-plant only soybeans or field corn (imazethapyr tolerant field corn only). Do not make a second application of **ZIDUA Prime**.

Rotational Cropping

Fields treated with **ZIDUA Prime** can be seeded the following season to soybean, field corn or spring wheat. Winter wheat may be seeded 4 months following the **ZIDUA Prime** application. Spring barley can be seeded 11 months following the **ZIDUA Prime** application.

Conduct a field bioassay (a test strip grown to maturity) to confirm crop safety prior to seeding any rotational crops other than listed above.

MIXING INSTRUCTIONS

Mixing Order

1. When applying **ZIDUA Prime**, always start with a clean sprayer. Thoroughly clean the sprayer by flushing the system with water containing detergent. Refer to previously applied product labels for specific cleaning instructions.
2. Fill clean spray tank half full with clean water. Start agitation system.
3. If needed, add the correct amount of water conditioner

4. If using a wettable powder or water dispersible granule tank mix partner add the correct amount to the tank and continue agitation until thoroughly dispersed.
5. If required, add the correct amount of micro-encapsulated product tank mix partner.
6. Using a calibrated measuring device, add the correct amount of **ZIDUA Prime**. Continue to agitate.
7. If required, add the correct amount of liquid, solution or suspension product tank mix partner.
8. If required, add in the correct amount of emulsifiable concentrate product tank mix partner.
9. If required, add the correct amount of glyphosate product tank mix partner.
10. If required, add in the correct amount of adjuvants or surfactants last.
11. Continue agitation while filling the spray tank with the remaining amount of water.
12. Continue to agitate or run the by-pass system.
13. After any break in spraying operation, agitate thoroughly before spraying again. Check inside the tank to ensure that sprayer agitation is sufficient to remix the spray materials. Do not allow the mixture to sit overnight.
14. If an oil film starts to build up in the tank, drain it and clean the tank with strong detergent solution.
15. Immediately after use, thoroughly clean the sprayer by flushing the system with clean water containing detergent.

Dispose of all rinsate in accordance with provincial regulations.

CLEANING SPRAY EQUIPMENT

Clean application equipment thoroughly by using a strong detergent or commercial sprayer cleaner according to the manufacturer's directions. Triple rinse the equipment before and after applying **ZIDUA Prime**.

Refer to the tank mix partner's product label for any additional cleaning instructions not included in the above steps.

RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, **ZIDUA Prime** contains a Group 2 and Group 15 herbicide. Any weed population may contain or develop plants naturally resistant to **ZIDUA Prime** and other Group 2/15 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. 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 **ZIDUA Prime** or other Group 2/15 herbicides within a growing season (sequence) or among growing seasons 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. To delay resistance, the less resistance-prone partner should control the target weed(s) as effectively as the more resistance-prone partner.
- Herbicide use should be based on an integrated weed management program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical control methods), cultural (for example, higher crop seeding rates; precision fertilizer application method and timing to favour the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Monitor weed populations after herbicide application for signs of resistance development (for example, only one weed species on the herbicide label not controlled). If resistance is suspected, prevent weed seed production in the affected area, if possible, by an alternative herbicide from a different group. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields and planting clean seed.
- Have suspected resistant weed seeds tested by a qualified laboratory to confirm resistance and identify alternative herbicide options.
- 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 BASF at 1-877-371-2273 or at www.agsolutions.ca.

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