

2023-0641

2023-05-18

This label has been updated according to the re-evaluation decision of Zoxamide RVD2023-04. While users are encouraged to follow this updated label immediately, the previously approved label is valid until 02-09-2025 in accordance with the phase out period set out in the re-evaluation/special review decision of Zoxamide RVD2023-04. This previously approved label will be provided upon request by emailing hc.pmra.info-arla.sc@canada.ca. In your email please include the product name and Registration number of the label you are requesting.

2023-0641
2023-05-18

(Box)

GROUP	22	FUNGICIDE
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ZOXIUM™ 80W

AGRICULTURAL FUNGICIDE

Wettable Powder

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

ACTIVE INGREDIENT: Zoxamide
..... 80% Warning, contains the
allergen sulphites

**REGISTRATION NO. 26840
PEST CONTROL PRODUCTS ACT**

**WARNING – EYE AND SKIN IRRITANT
POTENTIAL SKIN SENSITIZER**

NET CONTENTS: 5 kg, 10 kg

Gowan[®]
CANADA
Gowan Company, L.L.C.
P.O. Box 5569
Yuma, AZ 85364-5569
1-800-960-4318

ZOXIUM™ is a trademark of Gowan Company, L.L.C.

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN

Caution - Causes moderate eye irritation. Potential Skin Sensitizer. Do not get on skin or in eyes. Wash thoroughly with soap and water after handling. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid breathing dust. Remove contaminated clothing. Wash contaminated clothing thoroughly before reuse. Do not enter treated areas within 48 hours of application.

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 web site at www.croplife.ca.

Personal Protective Equipment (PPE):

Applicators and other handlers (other than mixers and loaders) must wear:

- Long-sleeved shirt and long pants
- Chemical resistant gloves
- Protective eyewear
- Shoes plus socks

Mixers and Loaders must wear:

- Long-sleeved shirt and long pants
- Chemical resistant gloves
- Shoes plus socks
- A dust/mist filtering NIOSH-approved respirator with an N, R, P or HE filter
- Protective Eyewear
- Chemical-resistant apron when cleaning equipment, mixing or loading.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. 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

Users should: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. 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.

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.

FIRST AID:

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

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.

TOXICOLOGICAL INFORMATION:

No specific antidote. Employ supportive care. Treatment should be based on judgment of the physician in response to reactions of the patient.

AGRICULTURAL CHEMICAL:

Do not ship or store with food, feeds, drugs or clothing.

ENVIRONMENTAL PRECAUTIONS:

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

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.

This pesticide is toxic to fish. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate any body of water by direct application, cleaning of equipment or disposal of wastes.

STORAGE:

Keep away from fire and sparks. Store in a cool, dry, well-ventilated area. To prevent contamination store this product away from food or fee.

DISPOSAL/DECONTAMINATION:

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 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.

Returnable Containers

Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

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.

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.

(Container)

GROUP	22	FUNGICIDE
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Personal Protective Equipment (PPE):

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- Long-sleeved shirt and long pants
- Chemical resistant gloves
- Protective eyewear
- Shoes plus socks

Mixers and Loaders must wear:

- Long-sleeved shirt and long pants
- Chemical resistant gloves
- Shoes plus socks
- A dust/mist filtering NIOSH-approved respirator with an N, R, P or HE filter
- Protective Eyewear
- Chemical-resistant apron when cleaning equipment, mixing or loading.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. 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

Users should: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. 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.

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No specific antidote. Employ supportive care. Treatment should be based on judgment of the physician in response to reactions of the patient.

AGRICULTURAL CHEMICAL:

Do not ship or store with food, feeds, drugs or clothing.

ENVIRONMENTAL PRECAUTIONS:

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

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.

STORAGE:

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(Booklet)

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AGRICULTURAL CHEMICAL:

Do not ship or store with food, feeds, drugs or clothing.

ENVIRONMENTAL PRECAUTIONS:

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Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

This pesticide is toxic to fish. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate any body of water by direct application, cleaning of equipment or disposal of wastes.

STORAGE:

Keep away from fire and sparks. Store in a cool, dry, well-ventilated area. To prevent contamination store this product away from food or feed.

DISPOSAL/DECONTAMINATION:

Recyclable Containers

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GENERAL INFORMATION:

ZOXIUM 80W is effective against plant diseases incited by Phycomycetes and others specifically mentioned on this label. Optimum disease control is achieved when the fungicide is applied in a regularly scheduled preventative spray program.

Use Rate Determination

Carefully read, understand, and follow label use rates and restrictions. Under low disease conditions, minimum label rates per application can be used while maximum label rates and the minimum interval may be used for severe or threatening disease conditions. For proper application, determine the number of hectares to be treated, the recommended label use rate and the water to be applied per hectare. Prepare only the amount of spray solution required to treat the measured area. Careful calibration of spray equipment is recommended prior to use.

GENERAL USE PRECAUTIONS:

Reentry: Do not re-enter treated areas within 48 hours of application.

Notification for Potatoes: Mixer/Loader/Applicator and Fieldworker Reentry personnel must be notified verbally before entering the treated area, "this area has been treated with **ZOXIUM** 80W. Contact with treated surfaces may result in an allergic skin reaction (rash, redness, swelling, itchiness) or asthma symptoms or rhinitis (sneezing, nasal discharge, itchy eyes). Report the incident to your Gowan Company representative. All reports are confidential."

Notification for Grapes: Mixer/Loader/Applicator and Fieldworker Reentry personnel must be notified verbally and by a posted sign before entering the treated area, "this area has been treated with **ZOXIUM** 80W. Contact with treated surfaces may result in an allergic skin reaction (rash, redness, swelling, itchiness) or asthma symptoms or rhinitis (sneezing, nasal discharge, itchy eyes). Report the incident to your Gowan Company representative. All reports are confidential." Signs are to be posted at field entrances and along borders no more than 8 m apart. Signs will be posted before the first application and remain in place for at least 20 days after application. The signs will be at least 36 cm by 41 cm with letters at least 3 cm high.

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.

DIRECTIONS FOR USE:

READ ALL DIRECTIONS CAREFULLY BEFORE APPLYING. FAILURE TO FOLLOW LABEL INSTRUCTIONS MAY RESULT IN ERRATIC FUNGICIDE CONTROL OR CROP DAMAGE.

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

DO NOT apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands), estuarine/ marine habitats.

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

Field sprayer application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. Boom height must be 60 cm or less above the crop or ground.

Airblast application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows. DO NOT apply when wind speed is greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side.

Aerial application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply when wind speed is greater than 16 km/h at flying height at the site of application. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. Reduce drift caused by turbulent wingtip vortices. Nozzle distribution along the spray boom length MUST NOT exceed 65% of the wing- or rotorspan.

Apply only by fixed-wing or rotary aircraft equipment which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label.

Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended for aerial application on this label. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment.

Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

Spray Buffer Zones:

A spray buffer zone is NOT required for uses with hand-held application equipment permitted on this label.

The spray buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of 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		Buffer Zones (metres) Required for the Protection of:				
			Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:		Terrestrial Habitat
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field Sprayer*	Potato		5	1	0	0	0
Airblast	Grape	Early Growth Stage	45	20	0	0	0
		Late Growth Stage	35	10	0	0	0
Aerial	Potatoe	Fixed Wing	125	10	0	0	0
		Rotary Wing	100	10	0	0	0

*For field sprayer application, buffer zones can be reduced with the use of drift reducing spray shields. When using a spray boom fitted with a full shield (shroud, curtain) that extends to the crop canopy, the labelled buffer zone can be reduced by 70%. When using a spray boom where individual nozzles are fitted with cone-shaped shields that are no more than 30 cm above the crop canopy, the labelled buffer zone can be reduced by 30%.

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 (ASAE) category indicated on the labels for those tank mix partners.

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

TANK MIXING:

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 Gowan Company at 1-800-960-4318 for information before applying any tank mix that is not specifically recommended on this label.

Crop	Diseases Controlled	Application Rate (per ha)	Remarks (Also Refer to Directions for Use)	Restrictions
POTATO	TANKMIX WITH MANCOZEB			
	Late Blight (<i>Phytophthora Infestans</i>) Early Blight (<i>Alternaria Solani</i>)	235 g of ZOXIUM 80W plus 2.0 kg of Mancozeb	Begin applications at the first sign of disease or when blight is reported in the area. Use a 7 day interval between each application under high disease pressure when late blight is present and environmental conditions favour continued disease development. For aerial spray, apply in 90L of water per hectare.	<ul style="list-style-type: none"> • Maximum of 6 applications per season with a 3 day pre-harvest interval (PHI) Aerial and ground application. • A 30 day plantback interval (PBI) is required for leafy vegetables and root and tuber vegetables. • For all other crops not included on the label, the PBI should be 140 days. • Under low disease conditions, minimum label rates per application can be used while maximum label rates and the minimum interval may be used for severe or threatening disease conditions.
		175 g of ZOXIUM 80W plus 1.5 kg of Mancozeb	Use a 7-day interval between each application under low disease pressure or when environmental conditions are unfavourable for disease development. For aerial spray, apply in 45 to 90 L of water per hectare. Begin applications at the first sign of disease or when blight is reported in the area.	
Late Blight (<i>Phytophthora Infestans</i>) Early Blight (<i>Alternaria Solani</i> – use higher rate)	187.5 - 235 g of ZOXIUM 80W plus 1.0 – 1.24 kg of a 90% chlorothalonil fungicide	Use a 7-day interval between each application when late blight is present and environmental conditions favour continued disease development. For aerial spray, apply in 90L of water per hectare.		

		187.5 - 235 g of ZOXIUM 80W plus 0.8 – 1.7 L of a 720 g/L chlorothalonil fungicide	Use a 7-day interval between each application when late blight is present and environmental conditions favour continued disease development. For aerial spray, apply in 90L of water per hectare.	vegetables. <ul style="list-style-type: none"> For all other crops not included on the label, the PBI should be 140 days. Under low disease conditions, minimum label rates per application can be used while maximum label rates and the minimum interval may be used for severe or threatening disease conditions.
		187.5 - 235 g of ZOXIUM 80W plus 1.2 – 2.4 L of a 500 g/L chlorothalonil fungicide	Use a 7-day interval between each application when late blight is present and environmental conditions favour continued disease development. For aerial spray, apply in 90L of water per hectare.	
<p>IMPORTANT: DO NOT apply ZOXIUM 80W alone for late and early blight control. Always tank-mix with preventative fungicides such as mancozeb or chlorothalonil as directed. Consult the tank-mix partner label and adhere to the most restrictive use directions.</p>				
GRAPE	Downy mildew (<i>Plasmopara Viticola</i>)	175 to 280 g of ZOXIUM 80W per hectare.	Application should start when new shoots are 1 to 4 cm long, repeat at 8 to 12 cm and at 20 to 25 cm. Continue applications on a 7 to 10 day interval when conditions are favourable to disease development. Use the high rate and short application interval under heavy disease pressure. For the additional control of powdery mildew and black rot, tank-mix with Nova* 40W Fungicide at label rate. Follow the Nova 40W Fungicide use directions for rate and timing.	Alternate ZOXIUM 80W with a fungicide having a different mode of action after two sequential applications of ZOXIUM 80W. Ground application only Maximum of 8 applications per season. Do not apply within 14 days of harvest. Not for use in British Columbia

APPLICATION DIRECTIONS

GROUND Application Directions for Use

Thorough coverage foliar sprays generally result in optimum disease control. To achieve good coverage use proper spray pressure, water volume per hectare, nozzles, disc, nozzle spacing, and tractor speed.

AERIAL Application Directions for Use

Apply only by fixed-wing or rotary aircraft equipment which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label.

Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended for aerial application on this label. **Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment.**

Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

Use Precautions

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as outlined in the National Aerial Pesticide Application Manual, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides.

Do not apply to any body of water. Avoid drifting of spray onto any body of water or other non-target areas. Specified buffer zones should be observed.

Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in fine particles (mist). Do not apply during periods of dead calm or when wind velocity and direction pose a risk of spray drift. Do not spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat.

Operator Precautions

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted.

It is desirable that the pilot have communication capabilities at each treatment site at the time of application.

The field crew and the mixer/loaders must wear chemical-resistant gloves, coveralls over long-sleeved shirt and long pants, goggles or face shield, and a dust/mist filtering NIOSH-approved respirator with any N, R, P, or HE filter, during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label.

All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

Product Specific Precautions

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-800-960-4318 or obtain technical advice from the distributor or your provincial agricultural representative. Application of this product must meet and/or conform to the following:

A uniform initial spray deposit over the crop canopy generally results in optimum disease control. Each aircraft should be pre-checked for droplet size, uniformity of spray pattern, swath width, and spray volume. During aerial application, human flaggers are prohibited unless in totally enclosed vehicles.

Nozzle selection: Hollow cone brass nozzles with a D-series orifice disc and core (whirlplate) are recommended. Nozzles should point straight down or slightly backward. Swath width: For most field and vegetable crops, swaths just beyond the wingspan of 11 to 12 metres for light aircraft and up to 14 metres for heavier aircraft are suggested. Optimum swath for helicopters is usually 1.5 to 3 metres beyond normal boom length.

Spray volume: Aerial applications are to be made in 45 to 90 litres of water per hectare. Use 90 litres under high disease pressure to provide better crop coverage. Altitude: For most crops, the spray boom should be positioned in 1.5 to 3 metres above the crop canopy. Flagging: Swaths should be marked at the end of the field with permanent flags. Do not use human flaggers. Swaths should be measured accurately with a chain or other device except when rows can be accurately counted.

Mixing Instructions

Slowly place into spray tank as it is being filled or thoroughly pre-mix in a nurse tank for concentrate or aircraft sprayers. Add other co-applied fungicides after **ZOXIUM 80W** has been placed into suspension.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that **ZOXIUM 80W** contains a Group 22 fungicide. Any fungal population may contain individuals naturally resistant to **ZOXIUM 80W** and other Group 22 fungicides. A gradual or total loss of pest control may occur over time if this fungicide is 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 fungicide resistance:

1. Do not apply application of more than two consecutive sprays of **ZOXIUM** 80W or other fungicides in the same group in a season before alternating with another registered fungicide with a different mode of action.
1. Use tank mixtures with fungicides from different groups when such use is permitted.
2. Fungicide use should be based on an IPM program that includes scouting, historical information related to pesticide use and crop rotation and considers cultural, biological and other chemical control practices.
3. Monitor treated fungal populations for sign of resistance development.
4. If disease continues to progress after treatment with this product, do not increase the use rate. Discontinue use of this product, and switch to another fungicide with a different target site of action, if available.
5. Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens
6. For further information and to report suspected resistance, contact Gowan Company at 1-800-960-4318 or at www.gowanco.com

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.