

Container label

Gavel[®] DF Fungicide

GROUP	M3	22	FUNGICIDE
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AGRICULTURAL FUNGICIDE
Dry Flowable

READ THE LABEL AND BOOKLET BEFORE USING
KEEP OUT OF REACH OF CHILDREN
CAUTION - EYE IRRITANT
POTENTIAL SKIN SENSITIZER

GUARANTEE:

MANCOZEB: 66.7%

ZOXAMIDE: 8.3%

REGISTRATION NO. 26842 PEST CONTROL PRODUCTS ACT

NET CONTENTS: _____kg_____



Product Information: 1-800-883-1844

©Trademark of Gowan Company, L.L.C.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN

Hazards to Humans and domestic Animals

CAUTION – EYE IRRITANT

Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, after handling, wash thoroughly with soap and water and change into clean clothing. Wash hands with soap and water before eating, drinking, chewing gum, using tobacco or using the toilet. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Harmful if inhaled. Avoid breathing dust. Remove contaminated clothing and wash clothing before reuse.

Use good pesticide application practices and apply only when the potential for drift to non-target or sensitive areas is minimal. Take into consideration residential areas, areas of human activities, bodies of water, meteorological conditions including wind speed, wind direction, temperature inversions, application equipment and sprayer settings used for application. Do not spray when the wind is blowing towards adjacent residential areas or areas of human activity, e.g., schools, parks.

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 CLOTHING AND EQUIPMENT

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

Coveralls over long-sleeved shirt and long pants
Chemical resistant gloves
Shoes plus socks

Mixers and Loaders must wear:

Coveralls over long-sleeved shirt and long pants
Chemical resistant gloves
Shoes plus socks
Goggles or face shield
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.

FIRST AID

If swallowed: Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center 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 center 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 center 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 center or doctor for treatment advice.

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

For product information call 1-800-883-1844 or visit our website at www.gowanco.com. In case of emergency involving a major spill, leak or fire call Chemtrec® at 1-800-424-9300. For medical emergencies call 1-888-478-0798.

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.

STORAGE

Keep away from fire and sparks. Store in a cool, dry, well-ventilated area. Do not allow to become wet or overheated in storage: decomposition, impaired activity, or fire may result. Keep container closed when not in use. Pallets of containers should not be stacked more than three high. Provide access aisle for each two rows. Decomposition produces a foul odor; if observed, check for hot containers and immediately remove to open areas for disposal. To prevent contamination store this product away from food or feed.

ENVIRONMENTAL HAZARDS

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 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. For terrestrial uses, 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 water when disposing of equipment washwaters or disposing of wastes.

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).

Disposal of Unused/Unwanted Product:

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. The user assumes the risk to persons or property that arises from any such use of this product.

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Coveralls over long-sleeved shirt and long pants

Chemical resistant gloves

Shoes plus socks

Goggles or face shield 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.

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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.

STORAGE

Keep away from fire and sparks. Store in a cool, dry, well-ventilated area. Do not allow to become wet or overheated in storage: decomposition, impaired activity, or fire may result. Keep container closed when not in use. Pallets of containers should not be stacked more than three high. Provide access aisle for each two rows. Decomposition produces a foul odor; if observed, check for hot containers and immediately remove to open areas for disposal. To prevent contamination store this product away from food or feed.

ENVIRONMENTAL HAZARDS

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 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. For terrestrial uses, 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 water when disposing of equipment washwaters or disposing of wastes.

A buffer zone of **25 meters** for application by ground boom sprayer, and a buffer zone of **35 meters** for application by air-blast/vineyard sprayer, should be established between the last spray swath and the edge of aquatic systems such as rivers, lakes, ponds, streams and other bodies of water.

A buffer zone of **5 meters** for application by ground boom sprayer, and a buffer zone of **10 meters** for application by air-blast/vineyard sprayer, should be established between the last spray swath and the edge of terrestrial habitats such as hedgerows, windbreaks, woodlots, vegetative strips and other vegetation.

Aerial drift is increased under certain meteorological conditions. Do not apply during periods of dead calm, when winds are gusty or when wind speed is greater than 15 km/hour at flying height at the site of application. Do not use a boom height greater than 3 meters above canopy.

For the protection of non-target habitats, overspray or drift to sensitive habitats must be avoided. For aerial applications, a **buffer zone** of **20 meters** is required between the downwind edge of the boom and the closest edge of sensitive aquatic habitats such as lakes, rivers, streams, sloughs, ponds, creeks and reservoirs. Do not contaminate these habitats when cleaning and rinsing spray equipment or containers.

STORAGE

Keep away from fire and sparks. Store in a cool, dry, well-ventilated area. Do not allow to become wet or overheated in storage: decomposition, impaired activity, or fire may result. Keep container closed when

not in use. Pallets of containers should not be stacked more than three high. Provide access aisle for each two rows. Decomposition produces a foul odor; if observed, check for hot containers and immediately remove to open areas for disposal. To prevent contamination store this product away from food or feed.

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

Returnable Containers:

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Disposal of Unused/Unwanted Product:

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.

GENERAL INFORMATION

Gavel DF Fungicide is a broad-spectrum protectant fungicide. 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 Gavel DF Fungicide. 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, L.L.C. 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 Gavel DF Fungicide. 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, L.L.C. 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.

Tank Mixtures: Do not apply this product with any other additive, pesticide or fertilizer except as specifically recommended on this label.

MIXING INSTRUCTIONS

Slowly place into spray tank as it is being filled or thoroughly premix in a nurse tank for concentrate or aircraft sprayers. Add other co-applied fungicides after Gavel DF Fungicide has been placed into suspension.

DIRECTIONS FOR USE

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

Crop	Diseases Controlled	Rate of GAVEL DF Fungicide Per Application Kilograms/ Hectare	Remarks (Also Refer to Directions for Use)	Restrictions
Potatoes	Late Blight (<i>Phytophthora infestans</i>) Early Blight (<i>Alternaria solani</i>)	2.25 kg	<p>Begin applications at the first sign of disease or when blight is reported in the area.</p> <p>Apply every 7 days under high disease pressure when either disease is present and environmental conditions favour continued disease development.</p> <p>For aerial spray, apply in 90L of water per hectare.</p>	<p>Maximum of 6 applications per season with a 3 day pre-harvest interval (PHI)</p> <p>Aerial and ground application.</p>
		1.7 kg	<p>Apply every 7 days under low disease pressure and environmental conditions unfavourable for disease development.</p> <p>For aerial spray, apply in 45 to 90 L of water per hectare</p>	
Grapes	Downy mildew (<i>Plasmopara viticola</i>)	2.25 kg	<p>Application should start when new shoots are 1 to 4 cm long, repeat at 8 to 12 cm and at 20 to 25 cm.</p> <p>Continue applications on a 7 to 10 day interval when conditions are favourable to disease development.</p>	<p>Maximum of 6 applications per season with a 66 day pre-harvest interval (PHI)</p> <p>Ground application only</p> <p>Not for use in British Columbia</p>

Crop	Diseases Controlled	Rate of GAVEL DF Fungicide Per Application Kilograms/ Hectare	Remarks (Also Refer to Directions for Use)	Restrictions
onion, bulb	Downy mildew (Peronospora destructor) – Suppression Neck rot (Botrytis allii)	1.7 to 2.25 kg	Apply preventatively when diseases are first reported in the area and repeat at 7 day intervals throughout the season as required. Use the high rate under moderate to high disease pressure. Do not allow spray or drift to contact bulbs after lifting from soil.	<ul style="list-style-type: none"> Do not apply within 10 days of harvest. Do not make more than 8 applications or apply more than 18 kg per hectare per season. Do not apply to exposed bulb.

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.

Buffer Zones

Use of the following spray methods or equipment **DO NOT** require a buffer zone: hand-held or backpack sprayer and spot treatment.

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, shelter belts, woodlots, hedgerows, riparian areas and shrublands), 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:				Terrestrial Habitat
			Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:		
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field Sprayer*	Potatoes		5	1	1	1	1
Airblast	Grapes	Early growth stage	35	10	15	5	1
		Late growth stage	25	5	5	2	1
Aerial	Potatoes	Fixed Wing	150	10	10	1	1
		Rotary Wing	125	5	10	1	1

*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 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.

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 (generally hollowcone), disc (generally D5 to D7), nozzle spacing, and tractor speed. Consult spray nozzle accessory catalogues for specific information on proper equipment calibration.

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

Aerial 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.

Aerial 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 coveralls over long-sleeved shirt and long pants, chemical resistant gloves, shoes plus socks, protective eyewear and a chemical resistant apron 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 1-800-667-3852 or obtain technical advice from the distributor or your provincial agricultural representative. Application of this product must meet and/or conform to the following:

Volume: Apply the recommended spray volume rate of 45 to 90 liters of water per hectare. Use 90 liters under high disease pressure to provide better crop coverage.

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 meters for light aircraft and up to 14 meters for heavier aircraft are suggested. Optimum swath for helicopters is usually 1.5 to 3 meters beyond normal boom length.

Altitude: For most crops, the spray boom should be positioned 1.5 to 3 meters 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.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that Gavel DF Fungicide contains both a Group M and Group 22 fungicide. Any fungal population may contain individuals naturally resistant to Gavel DF Fungicide and other Group 22 or Group M fungicides. A gradual or total loss of pest control may occur over time if these fungicides 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 fungicide resistance:

- Where possible, rotate the use of Gavel DF Fungicide or other Group M or Group 22 fungicides with different groups that control the same pathogens.
- Use tank mixtures with fungicides from a different group that is effective on the target pathogen when such use is permitted.
- Fungicide use should be based on an IPM program that includes scouting, historical information related to pesticide use and crop rotation and considers host plant resistance, impact of environmental conditions on disease development, disease thresholds, as well as cultural, biological and other chemical control practices. Where possible, make use of predictive disease models to effectively time fungicide/bactericide applications.
- Monitor treated fungal populations for resistance development. Notify Gowan Company if reduced sensitivity of the pathogen to Gavel DF Fungicide is suspected.
- 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.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.
- For further information and to report suspected resistance, contact Gowan Company at 1-800-883-1844 or at www.gowanco.com.

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