

2023-3635
2025-10-30

GROUP	M	FUNGICIDE
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Harvest Miracle

Fungicide Solution

COMMERCIAL

ACTIVE INGREDIENT: Copper, present as copper sulphate pentahydrate.....0.97%

READ THE LABEL BEFORE USING
KEEP OUT OF REACH OF CHILDREN



POISON

CORROSIVE TO EYES AND SKIN
REGISTRATION NO. 35639 PEST CONTROL PRODUCT ACT

Net Contents: 1-1000 L

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GENERAL INFORMATION:

Harvest Miracle is a fungicide that controls powdery mildew on labelled crops. Apply as an aerial or ground dilute spray with application equipment that gives uniform coverage of all foliage. Complete coverage is essential to ensure good product performance. To avoid plant injury, do not apply undiluted product to plants.

PRECAUTIONS

KEEP OUT OF THE REACH OF CHILDREN. Harmful if swallowed. CORROSIVE to the eye. DO NOT get in eyes. CORROSIVE to the skin. DO NOT get on skin.. Irritating to the respiratory tract. Avoid breathing sprays.

Follow the personal protective equipment, engineering control and restriction requirements for the appropriate mixer/loader and applicator scenario as described below. These restrictions are required to minimize exposure to the worker.

Application equipment and engineering controls	Personal protective equipment	
	Mixer/Loader/Cleanup and Repair	Applicator
Aerial (fixed wing, rotary wing, Remotely Piloted Aircraft System (RPAS))	Coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks, chemical-resistant footwear, and protective eyewear (goggles or face shield).	Long-sleeved shirt, long pants, chemical-resistant gloves ¹ , socks and shoes.
Airblast – Open Cab (does not include handheld airblast)	As above	Chemical-resistant coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks, chemical-resistant footwear and headgear ² , protective eyewear (goggles or face shield), and a respirator ³ .
Airblast – Closed Cab	As above	Long-sleeved shirt, long pants, socks and shoes.
Groundboom – Open Cab	As above	Coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and chemical-resistant footwear, protective eyewear (goggles or face shield), and a respirator ³ .
Groundboom – Closed Cab ⁴	As above	Long-sleeved shirt, long pants, socks and shoes.
Handheld equipment (except handheld airblast)	As above	Coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and

		chemical-resistant footwear, protective eyewear (goggles or face shield), and a respirator ³ .
Handheld airblast	As above	Chemical-resistant coveralls with a chemical-resistant hood over long-sleeved shirt, long pants, chemical-resistant gloves, socks, chemical-resistant footwear, protective eyewear (goggles or face shield), and a respirator ³

¹ Gloves are not required within a closed cockpit.

² Chemical-resistant headgear includes chemical-resistant Sou'Wester hat, chemical-resistant rain hat or large-brimmed waterproof hat and hood with sufficient neck protection.

³ Respirator must have a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides or a NIOSH-approved canister approved for pesticides.

⁴ A closed cab provides both a physical barrier and respiratory protection (such as dust/mist filtering and/or vapour/gas purification system). The closed cab must have a chemical-resistant barrier that totally surrounds the occupant and prevents contact with pesticides outside the cab.

Wash the outside of gloves before removing. Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

RESTRICTED ENTRY INTERVAL: DO NOT enter or allow worker entry into treated areas during the restricted entry interval of 48 hours.

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

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.

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

TOXICOLOGICAL INFORMATION: Treat symptomatically.

ENVIRONMENTAL PRECAUTIONS: Toxic to birds, small wild mammals, aquatic organisms, and non-target terrestrial plants. 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. Additional guidance can be found on the Runoff Mitigation portion of the Canada.ca website.

STORAGE: Store this product away from food or feed. Store in original plastic container. Do not allow to freeze.

DISPOSAL: Dispose of Harvest Miracle through use. Do not pour into lakes or rivers, as this may kill fish. Neutralize spills with bicarbonate of soda or lime.

DISPOSAL OF CONTAINER:

1. Triple or pressure-rinse the empty container. Add the rinsing to the spray mixture in the tank.
2. Follow provincial or territorial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial or territorial requirements.

For information on the 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 clean-up of spills.

HARVEST MIRACLE DIRECTIONS FOR USE:

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.

For outdoor cannabis and industrial hemp: Foliar applications must only be made during the vegetative growth stage.

FOLIAR APPLICATIONS:

Application of Harvest Miracle should be adjusted according to local practice and local weather conditions but annual maximum application per hectare must not be exceeded. Because the properties of local water may affect the efficacy of the product, always try the lower labelled concentrations first and move up to the higher labelled concentrations if needed. Typically, preventative programs can be maintained at the lower labelled concentrations whereas initial or corrective applications require the higher labelled concentrations. Testing for compatibility and crop tolerance on a small portion of land prior to full-scale commercial application is recommended.

Plant injury (phytotoxicity):

Higher concentrations may damage some tender, open blooms, and soft young foliage. The user should determine if Harvest Miracle can be used safely prior to commercial use. Apply the recommended concentration of Harvest Miracle to a small group of test plants of the same species requiring treatment and observe for 7 to 10 days for symptoms of phytotoxicity. To avoid higher wind speeds and daytime temperatures, apply spray in early morning.

SPRAY SOLUTION PREPARATION:

The volume applied and concentration of the spray are dependent on the specific crops as designated in the use directions below.

Mixing Directions:

Pour one half of specified volume of water into spray or mix tank. Add specified volume of Harvest Miracle, and then add remainder of water. This procedure alone ensures complete mixing of the solution. The amount of spray solution may need to be increased on crops with dense foliage within the recommended water volumes.

Tank Mixtures:

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 Ocion Water Sciences Inc at 1-800-587-1191 or www.ocion.ca for information before applying any tank mix that is not specifically recommended on this label.

Ground Application Instructions

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 sprays 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.

Airblast application: DO NOT apply when wind speed is less than 1 km/h. 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 Instructions

Conventionally piloted aircraft 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 when wind speed is greater than 16 km/h at flying height at the site of application. DO NOT apply with sprays finer than the American Society of Agricultural and Biological Engineers (ASABE) S572 (572.1 to 572.3) 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.

Remotely Piloted Aircraft System (RPAS) 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 when wind speed is greater than 16 km/h at flying height at the site of application. DO NOT apply with sprays finer than the American Society of Agricultural and Biological Engineers (ASABE) S572 (572.1 to 572.3) Medium classification. RPAS pilots must operate their RPAS in compliance with Part IX of the Canadian Aviation Regulations (SOR/96-433).

Apply only by aircraft equipment that 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 specified 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.

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 or RPAS application as outlined in the relevant manuals, as provided by the provincial/territorial pesticide regulatory authority where the pesticide application is to occur.

Product Specific Precautions

Read and understand the entire label before opening this product. If you have questions, call the registrant at 1-800-587-1191 or obtain technical advice from the distributor or your provincial or territorial agricultural representative.

For aerial applications of Harvest Miracle, the following guidelines are recommended across all listed crops:

- **Spray Volume:** 30-200 litres per hectare to ensure adequate canopy coverage.
- **Droplet Size:** Apply only as a Medium or coarser spray (ASABE S572 (572.1 to 572.3) or a volume mean diameter of 300 microns or greater for spinning atomizer nozzles.
- **Temperature Inversions:** If applying at wind speeds less than 5 km/h, the applicator must determine if a) conditions of temperature inversion exist, or b) stable atmospheric

conditions exist at or below nozzle height. Do not make applications into areas of temperature inversions or unstable atmospheric conditions.

- **Equipment:** The application equipment must be properly maintained and calibrated using appropriate carriers or surrogates. Release spray at the lowest height consistent with efficacy and flight safety. When applications are made with a crosswind, the swath may be displaced downwind. The applicator must compensate for this displacement at the up and downwind edge of the application area by adjusting the path of the aircraft upwind.
- **Application Timing:** Early morning to reduce evaporation and maximize adherence.

Harvest Miracle may be applied as an aerial spray. Harvest Miracle is sprayed on all parts of the plant so they are thoroughly covered with spray solution. The dispersion of the spray is usually achieved by its passage under pressure through the nozzle of the sprayer. The amount of spray solution and concentration required for a hectare will depend on the nature of crops to be treated and the equipment used. For trees, more spray solution is required than in the case of ground crops.

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 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/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	Cannabis, industrial hemp		10	4	1	1	0
	Coriander, mint, rutabaga, pea		4	2	1	1	0
	Cucurbits (cantaloupe, cucumber, honeydew, watermelon, muskmelon, pumpkin, squash), okra		5	3	1	1	0
Airblast	Grape	Early growth stage	55	45	10	3	1
		Late growth stage	45	35	4	2	1
	Pome fruit (apple, pear, quince)	Early growth stage	20	10	10	4	0
		Late growth stage	10	4	5	2	0
Aerial	Cannabis, industrial hemp	Fixed wing	35	15	1	0	0
		Rotary wing	30	10	1	0	0
		RPAS	30	10	1	0	0
	Coriander, mint, rutabaga	Fixed wing	15	10	1	0	0
		Rotary wing	10	5	1	0	0
		RPAS	10	5	1	0	0
	Cucurbits (cantaloupe, cucumber, honeydew, watermelon, muskmelon, pumpkin, squash)	Fixed wing	25	10	1	0	0
		Rotary wing	20	10	1	0	0
		RPAS	20	10	1	0	0
	Okra	Fixed wing	30	10	1	0	0
		Rotary wing	25	10	1	0	0
		RPAS	25	10	1	0	0
	Pea	Fixed wing	15	10	1	0	0
		Rotary wing	15	5	1	0	0

	Grape	RPAS	15	5	1	0	0
		Fixed wing	275	65	1	0	0
		Rotary wing	150	45	1	0	0
		RPAS	150	45	1	0	0
	Pome fruit (apple, pear, quince)	Fixed wing	1	1	1	0	0
		Rotary wing	1	1	1	0	0
		RPAS	1	1	1	0	0

RPAS = Remotely Piloted Aircraft System

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.

The spray buffer zones for application of this product with a Remotely Piloted Aircraft System (RPAS) CANNOT be modified based on weather conditions and spray equipment configuration.

Foliar application rate for food crops

Field Crop	Disease Controlled	Season	Application rate in mL Harvest Miracle per 1 litre of water			Minimum retreatment interval in days	Comments
			Minimum Rate	To	Maximum Rate		
Cannabis	Powdery Mildew (<i>Golovinomyces cichoracearum</i>)	Growing season	9	-	14	7	Do not exceed 280 L of product per hectare per year. Apply using ground or aerial application equipment in enough spray volume to provide adequate coverage of all foliage.
Industrial Hemp	Powdery Mildew	Growing season	9	-	14	7	Do not exceed 280 L of product per

	<i>(Golovinomyces cichoracearum)</i>						hectare per year. Apply using ground or aerial application equipment in enough spray volume to provide adequate coverage of all foliage.
Coriander (Cilantro)	Powdery Mildew (<i>Erysiphe polygoni</i>)	Growing season	9	-	14	10	Do not exceed 126 L of product per hectare per year. Apply using ground or aerial application equipment in enough spray volume to provide adequate coverage of all foliage.
Mint	Powdery Mildew (<i>Golovinomyces cichoracearum</i>)	Growing season	9	-	14	10	Do not exceed 126 L of product per hectare per year. Apply using ground or aerial application equipment in enough spray volume to provide adequate coverage of all foliage.
Rutabaga	Powdery Mildew (<i>Erysiphe polygoni</i>)	Growing season	9	-	14	10	Do not exceed 126 L of product per hectare per year. Apply using ground or aerial application equipment in enough spray

							volume to provide adequate coverage of all foliage.
Pome Fruit (Apple, Pear, Quince)	Powdery Mildew (<i>Podosphaera leucotricha</i>)	Fall, late dormant	18.8	-	28	One application per year	Do not exceed 28 L of product per hectare per year. Apply using ground or aerial application equipment in enough spray volume to provide adequate coverage of all foliage.
Cucurbits (Cantaloupe, Cucumber, Honeydew, Watermelon, Muskmelon, Pumpkin, Squash)	Powdery Mildew (<i>Podosphaera xanthii</i> , <i>Golovinomyces cichoracearum</i>)	Growing season	9	-	14	5	Do not exceed 228 L of product per hectare per year. Apply using ground or aerial application equipment in enough spray volume to provide adequate coverage of all foliage. Begin treatment when conditions are favourable for disease development and repeat every 5 to 10 days as necessary. A ground application before emergence may help decrease disease

							pressure after emergence. Note: crop injury may occur from higher rates and shorter intervals.
Okra	Powdery Mildew (<i>Golovinomyces cichoracearum</i>)	Growing season	9	-	14	5	Do not exceed 247 L of product per hectare per year. Apply using ground or aerial application equipment in enough spray volume to provide adequate coverage of all foliage.
Pea	Powdery Mildew (<i>Erysiphe pisi</i>)	Growing season	9	-	14	7	Do not exceed 140 L of product per hectare per year. Apply using ground or aerial application equipment in enough spray volume to provide adequate coverage of all foliage. Begin spraying when disease first appears and repeat at 7 to 10 day intervals as needed.
Grape	Suppression of Powdery Mildew (<i>Erysiphe necator</i>)	Growing season	9	-	14	3	Do not exceed 893 L of product per hectare per year. Apply using ground or aerial

							application equipment in enough spray volume to provide adequate coverage of all foliage. Apply at late dormant to bud break. Repeat applications following a 3-day interval if disease progresses.
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RESISTANCE MANAGEMENT RECOMMENDATIONS:

For resistance management, Harvest Miracle contains a Group M fungicide. Any fungal population may contain individuals naturally resistant to Harvest Miracle and other 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 Harvest Miracle or other Group M fungicides with different groups that control the same pathogens.
- Use tank mixtures with fungicide from a different group that is effective on the target pathogen when such use is permitted.
- Fungicide use should be based on an integrated disease management 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 applications.
- Monitor treated fungal populations for resistance development. Notify OCION WATER SCIENCES INC. if reduced sensitivity of the pathogen to Harvest Miracle 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 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 OCION WATER SCIENCES INC. at 1-800-567-1191 or at www.ocion.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.