

dimethomorph

ALWAYS READ AND FOLLOW THE LABEL

Information on this page is not to be substituted for label directions

Active Ingredient (a.i.):
dimethomorph



Target Pest Category:
fungicide

Examples of Trade Names:
Acrobat, Acrobat MZ

Chemical Family:
Cinnamic acid derivative and a member of the morpholine chemical family.

Types of Formulation:
Wettable powder

What it is:

Dimethomorph is a systemic fungicide which protects plants from fungi in the water mold family, such as late blight and downy mildew. Dimethomorph moves up the treated plant stem and into growing leaves. It also has anti-sporulant activity which helps to prevent the spread of blight between plants.

How it works (Mode of Action):

Affects cell wall production in fungi by inhibition of sterol synthesis.

Toxicity based on pure active ingredient:

Species	LD ₅₀ /LC ₅₀	Relative Toxicity
Mammal (rat)	LD ₅₀ Oral : 3900 mg/kg	Slightly toxic
	LD ₅₀ Dermal: >2000 mg/kg	Slightly toxic
Bird (mallard)	LD ₅₀ >2000 mg/kg	Practically non-toxic
Bees (contact/oral, highest dose tested)	LD ₅₀ 0.1 mg/bee	Non-toxic
Fish (trout) (96 hour)	LC ₅₀ 3.4 mg/L	Moderately toxic
Worms (earthworms)	EC ₅₀ >1000 mg/kg soil	-

* For description of relative toxicity categories please click [here](#).

What it controls:

Dimethomorph is active against late blight (*Phytophthora infestans*) on potatoes and blue mold (*Peronospora tabacina*) on tobacco. Refer to product label for registered uses.

Application Timing:

Make the first application when disease threatens and before the onset of infection or when first visible signs of disease occur within the field or nearby. Apply every 5-7 days under high disease pressure or every 7-10 days under low disease pressure. See label for further instructions.

Mixing Instructions:

Fill the spray tank one half to three quarters full with water. Using a calibrated measuring device, add the required amount of product while agitating. Fill the remainder of the tank with water.



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Applicator Safety and Re-entry:

- Dimethomorph is a potential skin sensitizer.
- During all activities, applicators must wear long pants, long sleeved shirt and boots.
- During mixing, loading, clean-up and repair activities applicators must also wear chemical resistant gloves and safety goggles or a face shield.
- Do not re-enter treated areas within 14 days after application to carry out manual topping or weeding. For other activities, do not re-enter treated areas within 48 hours after application. See label for specific directions.

Environmental Considerations:

- Dimethomorph has a low soil mobility and low leaching potential.
- Dimethomorph is only metabolized to a small degree in plants. In studies of crops at harvest, either no residues or residues up to 0.5 mg/kg were found.
- Highly toxic to fish and other aquatic organisms. Observe buffer zones specified on the label.

Storage:

- Store in cool, dry, locked, well-ventilated area without floor drain, in tightly closed **original** container.
- Do not ship or store near food, feed, seeds, fertilizers or other pesticides.
- Keep away from fire, open flame, or other heat sources.

Resistance Management:

- Dimethomorph is a Group 5 fungicide.
- No cross resistance to phenylamide-resistant fungi.
- Avoid application of more than two consecutive sprays of dimethomorph fungicide or other fungicides in the same group in a season.
- Use tank mixtures with fungicides from a different group, as directed on the label. Note: some products that contain dimethomorph also contain other mancozeb fungicide for resistance management purposes.

Integrated Pest Management:

- Dimethomorph is non-toxic to bees.

Restrictions:

- DO NOT apply within 14 days of harvest on potato or 21 days on tobacco. Read label for specific pre-harvest intervals.
- DO NOT plant a new crop in the treated area within 120 days of the last application.
- Do not apply by air in British Columbia. Aerial application is permitted only in Alberta, Saskatchewan and Manitoba.
- DO NOT apply to terrain where there is potential for surface runoff to enter aquatic systems.

Pesticide Labels:

- To find labels for pesticides registered in Canada, please link to the Pest Management Regulatory Agency (PMRA) label search web page:
<http://www.eddenet.pmra-arla.gc.ca/4.0/4.01.asp>