

BioMal®

WETTABLE POWDER

A Post-Emergent Mycoherbicide For Control Of Round-Leaved Mallow In Field Crops

AGRICULTURAL

READ THE LABEL AND LEAFLET BEFORE USING. Failure to follow label directions may result in erratic control of Round-Leaved mallow.

GUARANTEE

This product is guaranteed to contain 10^{11} viable spores of *Colletotrichum gloeosporioides* f.sp. *malvae* in the quantity of product required to treat 1 ha (~2.5 acres).

This package contains _____ viable spores in the quantity of product required to treat _____ ha (~_____ acres).

This product contains a maximum of 2×10^{10} *Colletotrichum gloeosporioides* f.sp. *malvae* spores per gram.

REGISTRATION NO. 22359 PEST CONTROL PRODUCTS ACT

DATE OF MANUFACTURE: _____

THIS PRODUCT TO BE USED WITHIN 3 MONTHS OF MANUFACTURE

BATCH NO.: _____

NET WEIGHT: _____ grams



318-111 Research Drive
Saskatoon, Sk. S7N 3R2

1-888-744-5662

www.inoculants.com

® BioMal is a registered trademark of Philom Bios Inc.

BioMal

DIRECTIONS FOR USE

To be applied with ground equipment. Do not apply by air.

1. Drain and flush tank, boom and hoses with water, three times.
2. Nozzles and screens should be removed and cleaned separately.

RATE: 10^{11} viable spores are required to treat 1 ha (~2.5 acres). The contents of this package will treat _____ ha (_____ acres).

WATER VOLUME: 100-150 L/ha (10-15 gallons/acre)
CONSTANT AGITATION REQUIRED. RE-AGITATE BEFORE SPRAYING.

Product should be used immediately after mixing, up to a maximum of 2 hours.

PRECAUTIONS

Keep out of reach of children.

Avoid inhalation, or contact with skin or eyes. Wear standard protective clothing and equipment including water-resistant gloves, safety glasses and a NIOSH-approved respirator.

FIRST AID

In case of contact with skin or eyes, immediately flush exposed areas with plenty of water. Get medical attention if irritation occurs.

STORAGE

Sealed packages of BioMal should be stored frozen, in original, unopened container. Do not store unused product in opened packages.

NOTICE TO USER

This product is to be used only in accordance with the directions on this label. It is an offense under the Pest Control Products Act to use a control product under unsafe conditions.

NOTICE TO BUYER

Seller's guarantee is limited to the terms set out on the label and subject thereto. The buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

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GENERAL INFORMATION

Failure to follow label directions may result in erratic control of Round-Leaved Mallow. Read all information and directions carefully before using BioMal.

BioMal should **NOT** be used to control weeds **OTHER THAN** Round-Leaved Mallow.

FIELD CROPS:

BioMal may be used on the following field crops:

- wheat
- barley
- oats
- rye
- canola
- mustard
- flax
- sunflower
- sugar beet
- lentil
- soybean
- buckwheat

Plant residues from crops sprayed with BioMal should be well incorporated into the soil in the fall if the crop to be planted the following year is known to be adversely affected by BioMal or for which no information on response to BioMal is known.

BioMal should be applied only with conventional on-ground sprayer equipment. BioMal is NOT to be applied with aerial sprayer equipment.

A buffer zone of 15 meters should be maintained around bodies of water and waterways.

ADDITIONAL INFORMATION AND DIRECTIONS FOR USE

BioMal consists solely of a wettable powder containing dried spores of the fungus *Colletotrichum gloeosporioides* f.sp. *malvae*. *C. gloeosporioides* f.sp. *malvae* infects Round-Leaved Mallow and forms disease lesions on stems, petioles and leaves. These lesions will appear on infected Round-Leaved Mallow plants within 2-4 weeks after infection, followed by rapid progression of the disease. Later germinating Round-Leaved Mallow plants are infected by diseased plants and are also controlled within 2-4 weeks after emergence.

When to Apply:

BioMal is effective when applied at any stage of weed growth. However, control occurs at a slower rate in older, more mature plants. The most effective stage of application is at an early seedling stage. Small Round-Leaved Mallow plants are more quickly controlled and provide less competition to developing crops.

BioMal can be applied to actively growing Round-Leaved Mallow plants anytime after the 2-leaf stage and preferably before the weeds are 15 cm tall. Application at this stage will usually result in visible disease lesions within 3-4 weeks in infected plants, which will then show rapid disease progression and plant mortality.

Method of Application:

BioMal should be applied using only clean back-pack or ground spraying equipment. BioMal should not be applied in mixture with any other agricultural pesticides.

BioMal may be applied with any conventional back-pack or ground sprayer calibrated to apply at least 100-150 L/ha (10-15 gallons/acre) of water. The suspension should be agitated constantly during spraying to ensure that the spores stay in uniform suspension in the sprayer. The mixture must be applied within 3 hours of preparation.

Do not store unused product in opened packages; dispose as outlined in the DISPOSAL section.

Timing of Application:

The active ingredient of BioMal (i.e. the spores of *Colletotrichum gloeosporioides* f.sp. *malvae*) must infect Round-Leaved Mallow plants in order to cause the spread of disease lesions within the plant. Successful spore germination and infection requires a period of high humidity for approximately 18-24 hours after spraying. Therefore, spraying should only take place when high relative humidity (80-100%) is expected for the next 18-24 hours. These conditions usually occur on overcast, humid days; during the late afternoon and early evening; or when rain is imminent. Rainfall during or immediately after BioMal application will increase the efficiency of BioMal on Round-Leaved Mallow plants. If available, sprinkler irrigation should be used to create more humid conditions at spraying.

Note: If humid conditions do not prevail for at least 18-24 hours after BioMal application, infection may occur but complete control may not be achieved as rapidly. Depending on the level of infection achieved, reapplication may be warranted if control of Round-Leaved Mallow is slow to develop.

PRECAUTIONS

Keep out of reach of children.

Avoid inhalation, or contact with skin or eyes. Wear standard protective clothing and equipment including water-resistant gloves, safety glasses and a NIOSH-approved respirator.

FIRST AID

In case of contact with skin or eyes, immediately flush exposed areas with plenty of water. Get medical attention if irritation occurs.

STORAGE

BioMal should be stored frozen.

Dispose of any product after the expiry date has passed.

Do not store product after the package has been opened. Store only in original container.

DISPOSAL

1. Thoroughly empty the contents of the container into the application device.
2. Make the empty container unsuitable for further use.
3. Dispose of the container in accordance with provincial requirements.
4. For information on the disposal of unused, unwanted product and the cleanup of spills, contact the provincial regulatory agency or the manufacturer.

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