

(Container)



Dithane™ M-45 Fungicide

GROUP	M	FUNGICIDE
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Contains: Mancozeb

AGRICULTURAL

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

GUARANTEE: Mancozeb 80%
wetable powder

REGISTRATION NO.: 8556 PEST CONTROL PRODUCTS ACT

NET CONTENTS: 3.5 kg

Corteva Agriscience Canada Company
2450, 215 – 2nd Street S.W.
Calgary, Alberta
T2P 1M4
1-800-667-3852

™Trademark of Corteva Agriscience and its affiliated companies.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN

May cause irritation of nose, throat, eyes and skin. Do not breathe dust or spray mist. Wear an appropriate respirator when handling (mixing and loading) this product. Remove contaminated clothing promptly and wash affected skin areas with soap and water. Thoroughly launder clothing before re-use.

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 HAZARDS

This product is toxic to fish. Do not apply directly to water or wetlands. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not apply when weather conditions favor drift from areas treated.

STORAGE

Keep away from fire and sparks. Store in cool, dry, well ventilated place. 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 3 high. Provide access aisles for each 2 rows. Decomposition produces foul odor: if observed, check for hot containers and remove immediately to open areas for disposal. Do not contaminate food or feed by storage or disposal.

DISPOSAL

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.

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.

(Booklet)



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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.

GENERAL INFORMATION

Dithane M-45 Fungicide is believed compatible with most of the common pesticides used.

GENERAL USE PRECAUTIONS

- **DO NOT APPLY BY AIR**
- 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.

Tank Mixtures

In some cases, tank mixing a pest control product with another pest control product or a fertilizer can result in biological effects that could include, but are not limited to: reduced pest efficacy or increased host crop injury. The user should contact Corteva Agriscience Canada Company at 1-800-667-3852 or www.corteva.ca for information before mixing any pesticide or fertilizer that is not specifically recommended on this label. The user assumes the risk of losses that result from the use of tank mixes that do not appear on this label or that are not specifically recommended by Corteva Agriscience Canada Company.

DIRECTIONS FOR USE

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

Sift Dithane M-45 Fungicide slowly into spray tank as it is being filled or premix thoroughly in the nurse tank for concentrate or aircraft sprayers. Add insecticide and nutritional sprays last. Dithane M-45 Fungicide is believed compatible with most of the common pesticides used. Thorough, uniform coverage is essential for good disease control. For low volume airblast sprayers adjust the mixing rate accordingly.

VEGETABLES

POTATOES - For early and late blight. Begin applications early, applying 1.1 kilograms Dithane M-45 Fungicide per hectare when plants are 10 - 15 cm high. Increase rate to 1.75 kilograms per hectare as the plants increase in size, and to 2.25 kilograms per hectare at row closure. Apply every 7-10 days throughout the season.

Reduced Spray Interval Schedule

During periods of wet weather favouring late blight and/or vigorous crop growth, spray intervals may be reduced to 5 - 6 days. Apply 1.10 kilograms per hectare until row closure, then increase rate to 1.75 kilograms per hectare until conditions allow the return to regular spray schedule.

Thorough, uniform coverage is essential for good disease control. Do not apply within 1 day of harvest.

TOMATOES - For control of early and late blight, Anthracnose, Stemphyllium, (grey leaf spot). Use Dithane M-45 Fungicide at 1.10 to 3.25 kilograms per hectare in sufficient water to provide adequate coverage. Start applications when disease is first reported in the area and repeat every 7 to 10 days or more often under severe disease conditions. Do not apply within 7 days of harvest.

ONIONS - For control of Botrytis leaf blight (leaf spot or blast). Apply 2.25 to 3.25 kilograms per hectare when disease first appears and repeat every 7 days as needed. Add a suitable wetting agent. Do not use on green bunching onions. Do not use later than 10 days before harvest.

CELERY - For early and late blight. Begin spraying at 2.25 kilograms per hectare in the plant bed when plants first come through the ground. Make further applications at 3-5 day intervals until plants are set in field. Continue field applications on a regular weekly schedule. Do not apply later than 14 days before harvest. Strip, trim and wash the celery at harvest.

CARROTS - For leaf spot diseases. Start applications of 2.25 kilograms per hectare when plants are 6 weeks old or when disease threatens. Repeat at 7-10 day intervals. Do not apply later than 7 days before harvest. Do not use treated tops for food or feed.

CANTALOUPE, CUCUMBERS, PUMPKIN, SQUASH, MELONS AND WATERMELONS - For control of Downy Mildew, Anthracnose, Scab, Gummy Stem Blight and Alternaria leaf spot. Use Dithane M-45 Fungicide at 1.10 to 3.25 kilograms per hectare in sufficient water to provide adequate coverage. Start applications when runners begin to form or at first sign of disease and repeat at weekly intervals. Direct spray for thorough coverage of both upper and lower leaf surfaces. Do not apply within 14 days of harvest.

FRUIT

APPLES - For the control of scab and cedar apple rust and quince rust. For a protective schedule begin application of Dithane M-45 Fungicide in the green tip up to half-inch green sprays. Repeat any subsequent pre-bloom, bloom and cover sprays in accordance with the timing in your local schedule for a protective program. Use 2.0 kilograms of Dithane M-45 Fungicide per 1000 litres of water in single strength sprays or the equivalent in concentrate sprays. If moderate disease conditions prevail, the dosage can be reduced to 1.5 kilograms in the cover sprays. The addition of a wetting agent will ensure a smoother, more even coverage of your spray material and helps prevent blotchy, visible residues. Fruit colour and finish on most apple varieties sprayed with Dithane M-45 Fungicide have frequently been outstanding; however this product may cause some injury to Golden Delicious. Do not apply within 45 days of harvest.

CAUTION - Do not feed treated apple pomace to livestock.

PEARS - For the control of pear psylla. Use Dithane M-45 Fungicide at the rate of 6.75-9.0 kilograms per hectare in accordance with local spray recommendations. Do not apply within 45 days of harvest.

GRAPES - For the control of Downy Mildew on grapes use Dithane M-45 Fungicide at the rate of 2.0 kilograms per 1000 litres (6.75 kilograms per hectare) as follows; start applying when new shoots are 20-25 centimeters long (pre-bloom). Apply two to three more sprays 10-12 days apart post-bloom. Do not use spray within 30 days of harvest.

FIELD CROPS

SUGAR BEETS - For Cercospora Leaf Spot control, use 2.25 kilograms per hectare in 800 litres of water in a protective program of 3-5 sprays. Do not apply within 21 days of harvest. Do not feed tops of treated sugar beets to cattle.

WHEAT (ALL VARIETIES, INCLUDING DURUM) - For the control of tan spot, Septoria leaf blotch, and leaf rust.

Early Spray: Apply at a rate of 1.1 kilograms per hectare at the Feeks 1-3/Zadoks 12-21 growth stages, when the crop is in the 3 leaf to tillering stage.

AND/OR

Late Spray: Apply at a rate of 2.25 kilograms per hectare at the Feeks 10.5/Zadoks 59 growth stages, when the head is fully emerged but prior to flowering (heading stage).

For ground spray applications with flat fan nozzles, use 100 litres of water per hectare at a pressure of 345 kPa. Do not make more than two applications during the season and do not apply within 40 days of harvest.

CAUTION: Do not graze the treated crop or cut for hay; there are not sufficient data to support such use. Do not feed straw or screenings to livestock.

TOBACCO

GREENHOUSE - For blue mold control, apply 50 to 100 grams of Dithane M-45 Fungicide in 25 to 50 litres of water and apply to 100 square metres. Spray seedlings to wet without run-off. Start spraying when plants are 1.5 centimetres across and then twice per week until transplanting.

ORNAMENTALS

JUNIPERS - (British Columbia only) For pear trellis rust control use 2.8 - 3.5 kg Dithane M-45 Fungicide in 1,000 L water per hectare. Make 3 applications annually in the third week of August and the second and fourth weeks of September. Thorough coverage of all junipers in the nursery is required.

ARBORVITAE, JUNIPER, DOUGLAS FIR - For control of Coryneum blight, Keithia blight, Dieback, Rhabodcline needle cast, apply 2.75 - 3.5 kg in 1,000 L. Spray at 10-14 day intervals during April, May, and early June to protect new growth.

ASH, OAK, SYCAMORE - For control of Anthracnose (*Gloeosporium* spp.), apply 2.75 - 3.5 kg in 1,000 L. Spray at 10-14 day intervals beginning just prior to bud burst and continuing as long as wet weather persists in spring.

HAWTHORN - For control of Leaf Blight (*Diplocarpon* sp.), apply 2.75 - 3.5 kg in 1,000 L. Spray at 10-14 day intervals as required beginning with bud burst in spring.

HOLLY - For control of Algae Leaf and twig blight (*Phytophthora ilicis*), apply 1.8 - 2.5 kg in 1,000 L. Spray as required especially during wet season. Avoid applications close to harvest to avoid visible residues.

IVY - For control of (*Hedera* spp.) Leaf spot, apply 1.25 - 2.5 kg in 1,000 L. Spray as required especially during the wet season.

PINE - For control of *Lophodermium* needle cast, apply 2.5 kg in 1,000 L. Spray every 2-3 weeks during July, August and September.

HERBS

GINSENG - For control of *Alternaria* leaf blight. Use Dithane M-45 Fungicide at 4.4 kg/ha in 2,000 L of water. Apply when disease first appears and follow with five subsequent sprays at two week intervals as part of a regular spray program. Do not apply within 30 days of harvest. Do not feed treated ginseng (roots or foliage) to livestock.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that Dithane M-45 Fungicide contains a Group M fungicide. Resistance populations are less likely to develop with this fungicide since it has multiple modes of action.

To delay fungicide resistance:

- 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.
- Monitor treated fungal populations for resistance development.
- 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 Corteva Agriscience Canada Company at 1-800-667-3852 or at www.corteva.ca.

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