

WARNING KEEP OUT OF REACH OF CHILDREN

Fungicide **ManKocide™** **Bactericide**

For the control of early and late blight in potatoes and tomatoes; bacterial speck and bacterial spot in tomatoes; black spot and downy mildew in grapes and downy mildew in cucurbits.

Active Ingredient:

Contains 300 g/kg COPPER as COPPER HYDROXIDE plus 150 g/kg MANCOZEB in the form of a water dispersible granule. Also contains 13.5 g/kg SODIUM HYDROXIDE

GROUP	M3 M1	FUNGICIDE
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Registered pursuant to the ACVM Act 1997, No. P005674.

See www.foodsafety.govt.nz for registration conditions.

Approved pursuant to the HSNO Act 1996, Approval Code HSR000614.

Distributed by:
ETEC Crop Solutions Limited
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Auckland, New Zealand

Phone: 0800 100 325

www.etec.co.nz

Net Contents:

15kg

Etec
CROP SOLUTIONS

PLEASE READ THE LABEL COMPLETELY BEFORE USE
This product MUST NOT be used for any purpose or in any manner contrary to the controls and conditions of registration.
This product MUST be under the control of an Approved Handler during use.

HSNO Classifications
6.1D, 6.3B, 6.4A, 6.5B, 6.9B, 9.1A, 9.3B

WARNING:
May be harmful if swallowed, inhaled or absorbed through the skin.
May cause skin and eye irritation.
May cause sensitisation from prolonged skin contact.
May cause lung and liver damage from repeated oral exposure at high doses.
Very toxic to aquatic organisms.
Toxic to terrestrial vertebrates.

PRECAUTIONS:
Store in original container, tightly closed, away from foodstuffs.
When mixing or applying the substance wear waterproof gloves, hat, eye protection, overalls footwear, and suitable respiratory protection.
Avoid contact with skin and eyes, and inhalation of spray mist.
If clothing becomes contaminated with product, remove clothing immediately.
DO NOT eat, drink, or smoke while using.
Wash hands and face before eating, drinking, or smoking and after work.
Wash protective clothing after use.
Apply with well-maintained and calibrated spray equipment.
Records of use MUST be kept.
Application, storage and record keeping should be as described in the Management of Agrichemicals NZS8409.
DO NOT carry on a passenger service vehicle.
Avoid contamination of any water supply with chemical or empty container.

CONTAINER DISPOSAL: Ensure the container is empty. Triple rinse empty container and add rinsate to the spray tank. Crush and bury in a suitable landfill. DO NOT reuse this container for any other purpose.

PRODUCT DISPOSAL: Dispose of this product only by using according to the label, or at an approved landfill or other approved facility.

FIRST AID
If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. DO NOT SCRUB THE SKIN. If concentrate is splashed in the eyes, flush with running water for at least 15 minutes. If inhaled move the victim to fresh air immediately. Begin artificial respiration if breathing has stopped.

SPILLAGE
Wear appropriate protective clothing. Shovel or sweep up and dispose of waste safely in an approved landfill. Keep stock off areas where the product may have been spilled for three weeks.

PRODUCT INFORMATION
MANKOCIDE DF is dry flowable-ready mixed formulation of copper hydroxide and mancozeb and is characterised by an extremely fine particle size, ease of dispersion, stable spray suspensions and high activity in controlling plant diseases. As both active ingredients are protectants only, it is essential that good coverage of all parts of the plant is obtained, before disease infection begins, to get best results. Weather conditions such as prolonged wet spells, which alter the pH of the leaf surface, may affect the performance of MANKOCIDE DF and may result in possible phytotoxicity or reduced effectiveness.

RESISTANCE MANAGEMENT
MANKOCIDE DF contains fungicides from inorganic and dithio carbamates groups, FRAC Group M1 and M3 Fungicides. Resistance to MANKOCIDE DF could develop from repeated use. To minimise this risk, use strictly in accordance with the label instructions and Directions for Use. MANKOCIDE DF should be used in a program which incorporates effective fungicides with alternate modes of action.

DIRECTIONS FOR USE
Complete spray coverage is essential for consistent disease control. Apply MANKOCIDE DF in sufficient water to achieve complete spray coverage without undue run-off.

Do not apply less than the recommended minimum rate of MANKOCIDE DF. Under heavy disease pressure, or when conditions are favourable for disease, use the higher rate and shorter spray intervals specified for each crop. The per hectare use rate of MANKOCIDE DF is applicable for both dilute and concentrate spraying. For concentrate spraying or aerial application, unless you have had previous experience, it is advisable to test for compatibility with other chemicals and tolerance to crop injury before spraying large areas. While volume is important in order to obtain good coverage, other factors such as foliage density, weather conditions and sprayer calibration can have a greater influence. Ensure that sprayers are well maintained and accurately calibrated and that weather conditions are within acceptable tolerances. MANKOCIDE DF should be applied in spray solutions with a pH between 6.5 and 9.0 to reduce risk of any phytotoxicity or reduction in efficacy.

CROP	DISEASE	RATE	REMARKS
Grapes	Black Spot, Downy Mildew	200 - 250 g/ 100 litres water/ha (minimum 2.5 kg/ ha)	Apply at 10 – 14 day spray intervals during the pre-bloom and post-bloom periods.
Potatoes	Late Blight, Early Blight	2.5 – 4 kg/ha	Apply at 7 – 10 day intervals. Use the higher rate when conditions favour disease development.
Pumpkins, Squash	Angular Leaf Spot, Downy Mildew	2 – 2.5 kg/ha	Apply at 7 – 10 day intervals, commencing when plants begin to run.
Tomatoes	Late Blight, Early Blight, Bacterial Speck, Bacterial Spot	250 - 400 g/ 100 litres water/ha (minimum 2.5 kg/ ha)	Apply at 7 – 10 day intervals. Repeat applications after 13mm rain or irrigation.

MIXING
MANKOCIDE DF is not water soluble but is water dispersible. Half fill the spray tank with water and, with agitation running, pour in the required amount of MANKOCIDE DF. Always pour MANKOCIDE DF slowly into the water while stirring. Then complete filling of the spray tank. Add other products (spreader, sticker, insecticide, nutrients etc.) ONLY after MANKOCIDE DF has been thoroughly mixed. Observe all cautions and limitations on the labels of all products used in mixtures.

MANKOCIDE DF may be measured volumetrically.
Pour MANKOCIDE DF slowly into a dry measuring cylinder or jug.
Approx. volumetric measure 1kg = 950mL
NOTE: Measurement by weight is the most accurate.

APPLICATION
Apply in sufficient water to achieve complete coverage without undue runoff. The rate per hectare is applicable for dilute and concentrate applications. For concentrate or aerial applications it is advised to test compatibility with other products and crop safety of mixtures before application.

COMPATIBILITY
MANKOCIDE DF is compatible with most commonly used fungicides and insecticides as a tank mix. DO NOT mix with diazinon or with strongly alkaline or acidic materials. If compatibility is in question, use the compatibility jar test before mixing whole tank. For further information consult your supplier.

WITHHOLDING PERIOD: Cucurbits and tomatoes 1 day. All other crops 14 days.
It is an offence to use this product on animals

It is an offence for users of this product to cause residues exceeding the relevant MRL in the Food Notice: Maximum Residue Levels for Agricultural Compounds

STORAGE
Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight.

SAFETY DATA SHEET
If additional hazard or safety information is required, refer to the Safety Data Sheet. For a copy visit our website at www.etec.co.nz

EXCLUSION OF LIABILITY: PLEASE READ
To the extent permitted by law, buyers and/or users of the goods accept that neither the manufacturer, Etec Crop Solutions Limited as distributor, nor any other distributor have any liability or responsibility whatsoever for any loss, damage or injury whether in contract or tort, whether direct, indirect or consequential howsoever arising in connection with the supply of these goods.

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ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Mancozeb, Copper Hydroxide)
MARINE POLLUTANT
PACKING GROUP III, HAZCHEM 22

In a transport emergency
dial 111, Police or Fire Brigade
For specialist advice in an emergency only,
call 0800 CHEMCALL (0800 243 622)

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