

# DITHANE\* 945

A wettable powder containing 80% w/w mancozeb. Product Registration Number: MAPP 12585  
A protectant fungicide for the control of POTATO BLIGHT and certain CEREAL DISEASES,  
and for the reduction of DOWNY MILDEW in OILSEED RAPE.

The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work.



**IRRITANT**



**DANGEROUS FOR THE ENVIRONMENT**

**IRRITATING TO THE RESPIRATORY SYSTEM.  
MAY CAUSE SENSITISATION BY SKIN CONTACT.  
VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.**

WEAR SUITABLE GLOVES.

AVOID CONTACT WITH SKIN.

KEEP OUT OF REACH OF CHILDREN.

THIS MATERIAL AND ITS CONTAINER MUST BE DISPOSED OF IN A SAFE WAY.

USE APPROPRIATE CONTAINMENT TO AVOID ENVIRONMENTAL CONTAMINATION.

To avoid risks to man and the environment, comply with the instructions for use

## IMPORTANT INFORMATION

### FOR USE ONLY AS AN AGRICULTURAL FUNGICIDE

Crops	Maximum Individual Dose	Maximum Number of Treatments	Latest Time of Application
Potato (ground application)	2.0 kg product per hectare	See Other Specific Restrictions	7 days before harvest
Potato (aerial application)	1.7 kg product per hectare	See Other Specific Restrictions	7 days before harvest
Winter wheat, spring wheat	2.0 kg product per hectare	Three per crop	Before milky grain ripe stage
Winter oilseed rape	1.7 kg product per hectare	One per crop	Before six true leaf stage (see also Other Specific Restrictions)

### Other Specific Restrictions:

A minimum interval of 7 days must be observed between applications to potatoes. This product must only be applied to winter oilseed rape between drilling and 31 December in the year of sowing.

**READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.**

## SAFETY PRECAUTIONS

### Operator protection:

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

WEAR SUITABLE PROTECTIVE GLOVES AND SUITABLE RESPIRATORY PROTECTIVE EQUIPMENT when handling the concentrate.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

WHEN USING, DO NOT EAT, DRINK OR SMOKE.

WASH HANDS AND EXPOSED SKIN before meals and after work.

### Environmental protection:

DO NOT CONTAMINATE SURFACE WATERS OR DITCHES with chemical or used container.

### Storage and disposal:

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.

EMPTY CONTAINER COMPLETELY and dispose of safely.

This label is compliant with the CPA Voluntary Initiative Guidance

**PROTECT FROM FROST**

**25 kg**

Batch number:

**Marketed by:**



**Kingham's Place, 36 Newgate Street,  
Doddington, Cambridgeshire PE15 0SR**

**Tel: 01354 741414 Fax: 01354 741004**

**e-mail sales@interfarm.co.uk**

**Approval Holder:**

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Number: UK: +44 (0) 1553 761 251.

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## DIRECTIONS FOR USE

IMPORTANT: This information is approved as part of the Product Label. All instructions within this section must be read carefully in order to obtain safe and successful use of this product.

## POTATOES

For the control of blight in all varieties of potatoes.

## APPLICATION RATE

**Ground application:** 1.7-2.0 kg in 200-1000 litres of water per hectare.

**Aerial application:** 1.7 kg in 20-40 litres of water per hectare.

## APPLICATION

With ground sprayers, spray cones should overlap just above the top of the crop.

Use a fine spray at high pressure to ensure complete cover of the foliage.

Allow foliage to dry before applying DITHANE\* 945 after rainfall or irrigation.

## TIMING

The purpose of spraying is to delay the 75% foliage blight development stage until after the full weight of tubers has been formed. With main crop varieties, bulking comes to an end in late September, so there is no point in preserving haulm after this stage. In common with all protectant fungicides, it is essential to spray DITHANE 945 before blight appears in the crop. For this reason a regular spraying programme should be carried out.

### First Application:

In the absence of a blight warning, apply the first spray just before the haulm meets across the row. If a blight warning is issued for the area, apply the first spray immediately, irrespective of the growth stage of the crop.

### Further Application:

Repeat every 10-14 days and continue spraying until the haulm is to be destroyed.

Repeat every 10 days, if any of the following conditions apply:

- Blight occurs frequently in the area.
- Blight is already present in the area.
- A blight warning has been issued for the area.
- The crop is being irrigated.

A 7 day spray interval may be used under *high risk* circumstances, where for instance, blight risk is already high and rain is forecast at the time the next 10 day spray is due.

Irrigated crops should always be sprayed with DITHANE 945 as soon as possible after irrigation.

The rate can be increased to 2.0 kg/ha with a 7 day or 10 day interval under exceptionally high risk circumstances where one or more of the following conditions apply, susceptible varieties according to the NIAB Blight susceptibility scale, crops which are irrigated, heavy rain is forecast within the next 7-10 days and geographical locations within the UK which are deemed as high risk areas for blight such as the West of England, Wales and other areas where rainfall or humidity is deemed to severely increase the risk of blight. The increased rate must only be used under exceptionally high risk conditions and once conditions improve or blight risk is seen to be decreased then it is recommended to switch back to the 1.7 kg/ha on a 7, 10-14 day interval.

## CEREALS : WINTER AND SPRING WHEAT

For the reduction of leaf spot and useful control of light to moderate attacks of brown rust.

## APPLICATION RATE

DITHANE 945 should be applied at 2.0 kg in 200-400 litres of water per hectare.

## TIMING

### Leaf spot (*Septoria tritici*)

A programme of two applications of DITHANE 945 with a 14 day spray interval, normally starting between GS31 and GS37, should be made to prevent the disease reaching the flag leaf and leaf 2, though in high risk situations a third application may be required after a further interval of 14 days. Apply before any disease is well established.

### Brown rust (*Puccinia recondita*)

One or two sprays of DITHANE 945 should be made beginning at the onset of disease infection.

**Note:** DITHANE 945 is a protectant fungicide and will not control established disease infections. If leaf spot or brown rust is already established specific treatments with an appropriate fungicide with curative activity should be made. If further protection is required, then apply DITHANE 945. Do not spray wet crops and crops suffering from drought or other stress. Persistence may be slightly reduced in rapid growing conditions.

## **WINTER OILSEED RAPE**

For the reduction of downy mildew (*Peronospora parasitica*).

## **APPLICATION RATE**

DITHANE 945 should be applied at 1.7 kg in 200-1000 litres of water per hectare.

## **TIMING**

Apply as soon as downy mildew develops between the cotyledon stage and the 5 true leaf stage. Applications must be made before the end of December. Allow foliage to dry before applying DITHANE 945 after rainfall.

### **Tank Mix with Engage\*\* or Flomide\*\*:**

DITHANE 945 may be tank mixed with Engage or Flomide after 1st October on crops which are beyond the 3 true leaf stage.

## **MIXING**

Add half the required volume of water to the spray tank and begin agitation. Add the recommended quantity of powder into a clean bucket. Add a little water and stir thoroughly into a thin cream, ensuring all lumps are broken down. Pour and rinse the cream into the tank through the filter. Agitate while topping up the tank and continue agitation while spraying. When tank mixing with other products add the DITHANE 945 after the other product has already dispersed in the spray tank.

## **COMPATIBILITY**

For information about compatible tank mixtures please consult your distributor/adviser.

## **NOTES**

It is important to keep containers tightly closed and stored in a cool, dry place.

Keep away from fire and sparks.

Once the container has been opened the material should not be kept over from one season to the next.

## **TRADEMARK ACKNOWLEDGMENTS**

\*Dithane is the trademark of Dow AgroSciences LLC.

\*\*Engage and Flomide are the trademarks of Interfarm (UK) Ltd.

## **Conditions of Supply**

All goods supplied by us are of high grade and we believe them to be suitable but, as we cannot exercise control over their storage, handling, mixing or use, or the weather conditions before, during or after application which may affect the performance of the goods, all conditions and warranties, statutory or otherwise, as to the quality or fitness for any purpose of our goods are excluded. No responsibility will be accepted by us or re-sellers for any failure in performance, damage or injury whatsoever arising from their storage, handling, application or use. These conditions cannot be varied by our staff or agents whether or not they supervise or assist in the use of such goods