

# Paraat<sup>®</sup>

**A fungicide for use against crown rot (*Phytophthora cactorum*) in strawberries and root rot (*Phytophthora* spp.) in raspberries and blackberries.**

A wettable powder containing 50% dimethomorph.

## Risk and Safety Information

### Danger

### May damage fertility.

Wear protective gloves, protective clothing and eye protection or face protection.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

IF exposed or concerned: Get medical advice/attention.

Store locked up.

Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for triple rinsed empty containers which can be disposed of as non-hazardous waste.

**To avoid risks to human health and the environment, comply with the instructions for use.**

**PCS No. : 03614**



Supplied by:  
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**1 kg**



**FOR USE ONLY AS A HORTICULTURAL FUNGICIDE, as directed below:**

<b>Crop</b>	<b>Maximum individual Dose (kg product/ha)</b>	<b>Maximum number of applications (per year)</b>	<b>Latest Time of Application</b>
Strawberry (outdoor)	3.0	1	35 days before harvest
Strawberry (protected)	3.0 See 'Other Specific Restriction (1)' for details.	1	35 days before harvest
Raspberries, blackberries (outdoor and protected qualified minor use)	3.0 See 'Other Specific Restriction (2)' for details.	1	90 days before harvest

**Other Specific Restrictions:**

(1) For use on protected strawberry as a drip irrigation or root drench the concentration of the diluted product must not exceed 1 g product per litre water. If using the maximum concentration do not apply more than 100 ml of diluted product/solution per plant. Do not exceed the maximum individual dose or exceed 0.1 g product per plant.

(2) For the use on protected and outdoor raspberries and blackberries as a drip irrigation or root drench the concentration of the diluted product must not exceed 5 g product per litre water. If using the maximum concentration do not apply more than 200 ml of the diluted product/solution per plant. Do not exceed the maximum individual dose or exceed 1.0g product per plant.

**READ THE LABEL BEFORE USE.****PCS No. : 03614****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** (disposable filtering facepiece respirator to at least EN149 FFP2 or equivalent) when handling the product.

**WEAR SUITABLE PROTECTIVE GLOVES** when handling contaminated surfaces.

**WASH ALL PROTECTIVE CLOTHING** thoroughly after use, especially the insides of gloves.

**Environmental protection**

Do not contaminate water with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads.

Do not allow direct spray from ground crop sprayers to fall within 5m of the top of the bank of a static or flowing waterbody or within 1m of the top of a ditch which is dry at the time of application.

**STORAGE**

**STORE IN ORIGINAL CONTAINER** tightly closed, in a safe place.

**WASH OUT CONTAINER THOROUGHLY**, empty washings into spray tank and dispose of safely.

## 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.

## Restrictions/Warnings

For professional use only.

## Processed crops

Consult processor before use on crops for processing

## Disease control

Paraat is a fungicide with protectant activity against crown rot (*Phytophthora cactorum*) in strawberries and root rot (*Phytophthora spp.*) in raspberries and blackberries. Paraat will be most effective when applied as a protectant treatment immediately after planting, before disease symptoms appear.

## Resistance Management

GROUP	40	FUNGICIDE
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Paraat contains dimethomorph, a CAA fungicide. It should be used in accordance with FRAC resistance management advice for CAA fungicides.

In outdoor and protected crops of strawberries, no more than one application of Paraat per year may be made for moderate control of crown rot (*Phytophthora cactorum*). Applications should be made preventatively after planting.

In raspberries and blackberries, no more than one application of Paraat per year may be made for moderate control of root rot (*Phytophthora spp.*). Applications should be made preventatively immediately after planting in the spring or autumn.

Alternation with fungicides with different modes of action to Paraat is recommended as part of a resistance management programme. CAA fungicides should not make up more than 50% of the intended number of fungicide applications for *Phytophthora* disease control in strawberries, raspberries and blackberries.

Use Paraat as part of an Integrated Crop Management (ICM) strategy incorporating other methods of control, including where appropriate fungicides with a different mode of action.

## Crop Specific Information

### Outdoor strawberries

#### Time of application

For the moderate control of crown rot (*Phytophthora cactorum*) apply Paraat as a preventative treatment immediately after planting.

#### Rate of application

Apply Paraat at 3.0 kg/ha as a high volume spray of 600–1000 litres of water per hectare, ensuring good coverage around the base of the plant.

### Protected strawberries

#### Time of application

For the moderate control of crown rot (*Phytophthora cactorum*), apply Paraat as a preventative treatment immediately after planting.

#### Rate of application

Apply Paraat as a drip irrigation or root drench treatment of 0.1 gram of product per plant, not exceeding 3.0 kg of product/ha.

Paraat may be used at the following dilutions and water volumes:

1g Paraat/litre of water – use 100 ml/plant

0.5g Paraat/litre of water – use 200 ml/plant

0.25g Paraat/litre of water – use 400 ml/plant

### Raspberries and blackberries (cut back and protected) – qualified minor use recommendation

#### Time of application

For the moderate control of root rot (*Phytophthora spp.*) apply Paraat as a preventative treatment immediately after planting in the spring or autumn.

#### Rate of application

Apply as a drip irrigation or root drench treatment delivering 1.0 g of Paraat per plant, not exceeding 3.0 kg of product/ha.

Paraat may be used at the following dilutions and water volumes:

5g Paraat/litre of water – use 200 ml/plant

2.5g Paraat/litre of water – use 400 ml/plant

\*There is limited evidence of crop safety and/or product efficacy available for Qualified Minor uses and the commercial risk of using this product under this Qualified Minor use is borne entirely by the grower.

## Following Crops

Following application of Paraat, allow 10 months before sowing clover.

## Mixing and Application

### Mixing

In outdoor strawberries, Paraat should be applied as a COARSE spray as defined by BCPC, using a high volume drenching spray of 600–1000 litres of water per hectare, using hydraulic nozzles and ensuring good coverage around the base of the plant. In protected crops of strawberries, Paraat should be applied via drip irrigation or as a root drench delivering at least 100 ml of water per plant. In outdoor or protected raspberries and blackberries, Paraat should be applied via drip irrigation or as a root drench delivering at least 200 ml of water per plant.

Half fill the sprayer, drench or irrigation tank with clean water and start agitation. Steadily add the required quantity of Paraat direct to the spray, drench or irrigation tank (pre-mixing is not necessary).

Empty product container thoroughly and dispose of safely.

Add the remainder of the water.

Apply immediately and continue agitation until spraying, irrigation or drenching is complete.

Wash sprayer or flush out drench or irrigation equipment thoroughly immediately after use, using clean water and following best practice advice and the guidance provided by the equipment manufacturer.

Do not apply via knapsack sprayers.

### The following does not form part of the product label under S.I. No. 159 of 2012

With many products there is a general risk of resistance developing to the active ingredients. For this reason a change in activity cannot be ruled out. It is generally impossible to predict with certainty how resistance may develop because there are so many crop and use connected ways of influencing this. We therefore have to exclude liability for damage or loss attributable to any such resistance that may develop. To help minimise any loss in activity the BASF recommended rate should in all events be adhered to.

Numerous, particularly regional or regionally attributable, factors can influence the activity of the product. Examples include weather and soil conditions, crop plant varieties, crop rotation, treatment times, application amounts, admixture with other products, appearance of organisms resistant to active ingredients and spraying techniques. Under particular conditions a change in activity or damage to plants cannot be ruled out. The manufacturer or supplier is therefore unable to accept any liability in

such circumstances. All goods supplied by us are of high grade and we believe them to be suitable, but as we cannot exercise control over their mixing or use or the weather conditions during and after application, which may affect the performance of the material, all conditions and warranties, statutory or otherwise, as to the quality or fitness for any purpose of our goods are excluded and no responsibility will be accepted by us for any damage or injury whatsoever arising from their storage, handling, application or use; but nothing should be deemed to exclude or restrict any liability upon us which cannot be excluded or restricted under the provisions of any applicable law.

### **Additional Product Safety Information**

This section does not form part of the product label under S.I. No. 159 of 2012.

The information on this label is based on the best available information including data from test results.

### **Safety Data Sheet**

To access the Safety Data Sheet for this product scan the QR code or use the weblink below:



[agricentre.basf.ie/Paraquat-IE/MSDS](http://agricentre.basf.ie/Paraquat-IE/MSDS)

Alternatively, contact your supplier.