


## CLAYTON PATRIOT

A suspension concentrate (SC) containing 400 g/L pyrimethanil. A fungicide for the control of leaf scab (*Venturia inaequalis*, *Venturi pyrina*) in apples and pears and grey mould (*Botrytis cinerea*) on strawberry, raspberry and blackberry. MAPP 18418

	<p><b>CLAYTON PATRIOT is a soluble concentrate containing 400 g/L pyrimethanil.</b></p> <p><b>Signal Word : WARNING</b>  <b>Toxic to aquatic life with long lasting effects.</b></p> <p>Keep out of reach of children.          Keep only in original container.          Do not eat, drink or smoke when using this product.          Avoid release to the environment.          Collect spillage.          Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste</p> <p><b>To avoid risks to human health and the environment, comply with the instructions for use</b></p>
<p>The Control of Substances Hazardous to Health (COSHH) Regulations may apply to the use of this product at work.</p>	

<p><b>Approval Holder</b>  <b>Clayton Plant Protection Ltd.,</b>  <b>Bracetown Business Park</b>  <b>Clonee, Co. Meath. Ireland</b>          Tel: (00 353) 1 8210127  <a href="http://www.claytonpp.com">www.claytonpp.com</a> Email:  <a href="mailto:info@claytonpp.com">info@claytonpp.com</a></p> <p><b>Marketing company in UK</b>  <b>Clayton Plant Protection (UK) Ltd.</b>          Address and telephone as above.</p>	<p><b>Contents: 1 L e</b></p> <p>PROTECT FROM FROST          STORE IN A COOL, DRY PLACE</p> <p><b>UN 3082</b></p> <p>Batch No:</p>
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IMPORTANT INFORMATION : FOR USE ONLY AS AN AGRICULTURAL FUNGICIDE			
Crops	Maximum Individual dose (L/ha)	Maximum No. of treatments (per year)	Latest time of application
Apple and Pear	1	4	56 days before harvest
Strawberry	2	2	3 days before harvest
Raspberry and Blackberry	2	2	7 days before harvest
<b>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</b>			

**Conditions of Supply:** all goods supplied by us are of high quality and we believe them to be correct but, as we cannot exercise control over their storage, handling, mixing or use, or weather conditions before, during and 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, and no responsibility will be accepted by us or resellers 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.

### **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 CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE

GLOVES when handling contaminated surfaces or applying the product.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND RUBBER BOOTS when handling the concentrate or applying by hand held equipment. However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

WASH CONCENTRATE from skin and eyes immediately.

WASH HANDS AND EXPOSED SKIN before meals and after work.

### **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.

### **Apple and Pear**

DO NOT ALLOW DIRECT SPRAY from broadcast air-assisted sprayers to fall within 15 m of the top of the bank of a static or flowing water body, unless a Local Environmental Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 5 m of the top of a ditch which is dry at the time of application. Aim spray away from water.

### **Strawberry**

DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5m of the top of the bank of a static or flowing water body, unless a Local Environmental Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 1m of the top of a ditch which is dry at the time of application. Aim spray away from water.

This product qualifies for inclusion within the Local Environmental Risk Assessment for Pesticides (LERAP) scheme. Before each spraying operation from a horizontal boom sprayer, either a LERAP must be carried out in accordance with PSD's published guidance or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for three years. To protect aquatic organisms respect an unsprayed buffer zone to surface water bodies in line with LERAP requirements.

### **Storage and disposal**

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

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

Store well away from seeds, fertilizers and animal feeding stuffs in a safe dry place designated as an agrochemical store.

PROTECT FROM FROST.

### **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 OR WARNING**

Do not plant sugar beet within a year of an application of Clayton Patriot. Consult processors before use on strawberry, raspberry or blackberry.

**Apple and pear – resistance.** Clayton Patriot contains pyrimethanil, an anilinopyrimidine (AP) fungicide. Clayton Patriot should only be used as a protectant spray. To prevent less-sensitive strains of Venturia from developing, Clayton Patriot should be used in a programme, alternating or mixing with products of different modes of action. Application should be made in accordance with FRAC Guidelines. A maximum of four AP containing products is recommended per season. In locations where AP insensitive strains of Venturia have been reported, Clayton Patriot should be used in mixture with effective scab fungicides of differing modes of action.

**Strawberry – resistance.** Clayton Patriot should only be used as a protectant spray. To prevent strains of Botrytis less sensitive to Clayton Patriot from developing, its use with other effective botryticides is recommended in alternating programmes. In 3 or 4 spray programmes Clayton Patriot should be applied no more than once. If more than 4 applications are necessary Clayton Patriot may be used twice in a season providing at least two applications of other botryticides with different modes of action are made between the applications of Clayton Patriot.

## DISEASES CONTROLLED

Clayton Patriot is a fungicide containing 400 g/L pyrimethanil. It can be used as a preventative treatment for the control of leaf scab (*Venturia inaequalis*, *Venturi pyrina*) in apples and pear. It will also give control of grey mould (*Botrytis cinerea*) on strawberry (field), and moderate control on strawberry (protected). It may also be used on raspberry and blackberry. These are qualified recommendations based on limited effectiveness and crop safety data.

## CROP-SPECIFIC INFORMATION Apple and Pear.

For the control of Leaf scab. Use 1 litre product per hectare in 330 to 500 litres water per hectare. **See note below \***

Apply as part of a programme of preventative fungicides. Applications can be made from start of bud burst at intervals of 7 days, using a maximum of 4 applications per year. A minimum of 56 days must elapse between the last treatment and harvest.

## Strawberry (outdoor and protected), raspberry and blackberry

For the control of Grey mould. Use 2 litres product per hectare in 500 to 900 litres of water per hectare. It is important to achieve accurate and complete coverage of the plant rows for effective protection of the crop.

Apply as part of a programme of preventative fungicides. Applications can be made from pre-bloom up to 7 days before harvest at intervals of 7 to 10 days depending on disease conditions.

Ensure adequate penetration of the canopy and coverage of the foliage and flowers/fruit. To avoid resistance, alternate treatments in a programme with fungicides with different modes of action which give effective grey mould control.

### Note \*

For dose adjustment to follow changing tree height or cropping environment it is recommended that the PACE process is followed.

PACE is a recognised process in the UK, info on PACE at <http://pjwrc.co.uk/>

Where tree height and/or canopy density is reduced, the dose (and water volume) should be adjusted in accordance with an appropriate dose adjustment scheme. Consult your specialist advisor for further information. Further information on the PACE scheme is available from HDC, or see the HDC leaflet (Orchard Spraying: Opportunities to reduce rates)

## APPLICATION

Add the required quantity of Clayton Patriot to a half-filled spray tank with continuous agitation, then add the remaining volume of water.

Spray immediately after mixing and continue agitation during spraying.

Wash out the sprayer thoroughly with water and liquid detergent immediately after use. Finally wash out with water and drain.

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