

# CLAYTON LITHIUM

MAPP 15803

Contains 200 g/l myclobutanil with cyclohexanone in an oil-in-water emulsion

**For the control of certain diseases of the listed crops.**



**HARMFUL**

**Harmful: may cause lung damage if swallowed  
Possible risk of harm to the unborn child**



**DANGEROUS FOR THE ENVIRONMENT**

**Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment**

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

## IMPORTANT INFORMATION

FOR USE ONLY AS A HORTICULTURAL FUNGICIDE

Crop	Maximum individual dose of product	Maximum total dose of product	Latest time of application
Apple Pear	0.45 l/ha	4.5 l/ha/year See Other Specific Restriction 1	14 days before harvest
Blackcurrant Gooseberry	0.45 l/ha	2.7 l/ha/year See Other Specific Restriction 1	14 days before harvest
Strawberry	0.45 l/ha	2.7 l/ha/year See Other Specific Restriction 1	3 days before harvest
Ornamental plant production	See Other Specific Restriction 2	-	-

### Other specific restrictions

- The following minimum intervals must be observed between applications at the following rates:
  - Up to and including 0.23 l product/ha – 7 days.
  - Greater than 0.23 l product/ha and up to and including 0.33 l product/ha – 8 days.
  - Greater than 0.33 l product/ha and up to and including 0.45 l product/ha – 11 days.
- For applications in ornamental plant production, a maximum concentration of 225 ml product / 750 l of water must not be exceeded.

**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 when handling the concentrate.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), HOOD AND SUITABLE PROTECTIVE GLOVES when applying via air assisted spraying equipment.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when applying via 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.

Wear suitable protective clothing and gloves.

Avoid contact with eyes.

WASH CONCENTRATE from skin or eyes immediately.

WHEN USING, DO NOT EAT, DRINK OR SMOKE.

WASH HANDS AND EXPOSED SKIN before eating and drinking and after work.

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

### **Environmental protection**

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

### **Storage and disposal**

KEEP OUT OF REACH OF CHILDREN.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

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

This material and its container must be disposed of in a safe way.

RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of the container safely.

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

This product is approved under the Control of Pesticides Regulations 1986.

Safety data sheet available for professional user on request.

**Clayton Plant Protection (UK) Ltd.,  
Unit F10, Bracetown Business Park  
CLONEE, Co. Meath  
Ireland**

Tel: (00 353) 1 8210127

Contents: **1 litre**

PROTECT FROM FROST

SHAKE THOROUGHLY BEFORE USE

Batch No:

Permit holder:

Clayton Plant Protection Ltd.

Address and telephone as above.

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains myclobutanil). UN 3082; Class 9; Packing group III
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**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.

## **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.**

Clayton Lithium, containing myclobutanil, is a systemic fungicide with both protectant and curative activity. Maximum advantage is gained when the product is applied in anticipation of disease occurrence.



## APPLES and PEARS

Apply Clayton Lithium up to a total dose of no more than 4.5 l/ha year. Make the last application no later than 14 days before harvest.

Use/disease	Time of treatment	Spray interval	Rate of Use	Remarks
1 Control of leaf scab of apples ( <i>Venturia inaequalis</i> ) or of pears ( <i>Venturia pirinis</i> ). 2 Reduction of spread of apple powdery mildew ( <i>Podosphaera leucotricha</i> ) from primary infections.	From bud burst to start of petal fall	Minimum 7 days	0.23 l/ha	Apply every 7 days when the disease challenge is high or during periods of rapid growth.  If unfavourable spraying conditions have stretched a spray interval beyond 14 days then the following spray should also be made at 0.45 l/ha to gain maximum curative effect.
		8-10 days	0.33 l/ha	
		11-14 days	0.45 l/ha	
Additionally improved control of fruit scab.	After the start of petal fall	Intervals as above	Rate for interval as above	Apply in tank-mixture with mancozeb MAPP 14632 or dithianon MAPP10219 or captan MAPP 12435.
<b>Spray volume</b> In early season apply the chosen dose in at least 200 l/ha water; when in full leaf apply in at least 500 l/ha water.				

## BLACKCURRANTS and GOOSEBERRIES

Apply Clayton Lithium up to a total dose of no more than 2.7 l/ha year. Make the last pre-harvest application no later than 14 days before harvest.

Use/disease	Time of treatment	Spray interval	Rate of Use	Remarks
Control of American powdery mildew	Start the spray programme just before the first signs of the disease are expected to appear. Repeat sprays at the recommended intervals.	Minimum 7 days	0.23 l/ha	Best results are achieved from a preventive spray programme.  Further sprays post-harvest to reduce over-wintering disease can be beneficial but the total annual dose must not exceed 2.7 litres product per ha.
		8-10 days	0.33 l/ha	
		11-14 days	0.45 l/ha	
<b>Spray volume</b> In early season apply the chosen dose in at least 200 l/ha water; when in full leaf apply in at least 500 l/ha water.				

## STRAWBERRIES

Apply Clayton Lithium up to a total dose of no more than 2.7 l/ha year. Make the last pre-harvest application no later than 3 days before harvest.

Use/disease	Time of treatment	Spray interval	Rate of Use	Remarks
Control of strawberry powdery mildew	Start the spray programme shortly before or at first flower. Repeat sprays at the recommended intervals.	Minimum 7 days	0.23 l/ha	Further sprays post-harvest may be necessary to maintain crop vigour and reduce over-wintering disease but the total annual dose must not exceed 2.7 litres product per ha.
		8-10 days	0.33 l/ha	
		11-14 days	0.45 l/ha	
<b>Spray volume</b> In early season apply the chosen dose in at least 200 l/ha water; when in full leaf apply in at least 500 l/ha water.				

## OUTDOOR ROSES AND ORNAMENTALS

Use/disease	Time of treatment	Spray interval	Rate of Use	Remarks
<b>Preventive treatment for:</b> Powdery mildew Blackspot Rust	Start spraying in early May.	Repeat every 14 days.	0.225 litres product in 750 litres of water	Spray foliage to just before the point of runoff from the leaves.  Users must test spray any unfamiliar variety to check the safety of the treatment before applying to large numbers of plants.
<b>Crops at known disease risk of:</b> Powdery mildew Blackspot Rust	<u>Powdery mildew</u> As soon as disease is indicated.	Repeat every 14 days.		
	<u>Blackspot</u> <i>High risk:</i> at leaf bud burst.  <i>Low risk:</i> as soon as disease is indicated.	<i>High risk:</i> repeat after 7 days then every 14 days. <i>Low risk:</i> repeat every 14 days.		
	<u>Rust</u> As soon as disease is indicated.	<i>High risk:</i> repeat after 7 days then every 14 days. <i>Low risk:</i> repeat every 14 days		

### COMPATIBILITY

Clayton Lithium is compatible in tank-mixture for use on apples and pears with mancozeb MAPP 14632 or dithianon MAPP10219 or captan MAPP 12435. When tank-mixing follow the Directions for Use of the partner product together with those of this label. Use immediately after mixing. For further information please contact your distributor.

### MIXING

Shake the product in its container thoroughly before opening. Part-fill the sprayer tank with clean water. With the contents of the spray tank under agitation, add the required quantity of Clayton Lithium. Maintain agitation whilst topping up the tank to the required level and until the completion of spraying.

When tank-mixing with mancozeb MAPP 14632 or dithianon MAPP10219 or captan MAPP 12435, firstly mix the required quantity of Clayton Lithium in the part-filled spray tank and maintain agitation. Secondly remove the filter basket and *slowly* pour the partner product directly into the mix so that it is dispersed without forming a mass at the bottom of the spray tank. DO NOT dump the partner product into the spray tank as one mass. After the partner product has been slowly added and dispersed, proceed to fill the tank with water as previously described.

Spray immediately after mixing. Wash all equipment thoroughly immediately after use.

### PROCESSED CROPS

Consult processors before treating crops being grown for processing.

### FUNGICIDAL EFFICACY

It is possible that strains of disease less sensitive to myclobutanil may occur or develop; if such strains are encountered Clayton Lithium will have lesser effect. Use of alternative fungicides with different modes of action will minimise the occurrence of less sensitive strains.