

# CLAYTON ROULETTE

An emulsion in water formulation containing 50g/l cyflufenamid for the control of powdery mildew on a range of cereal crops. MAPP 18017



**CLAYTON ROULETTE** An emulsion in water formulation containing 50 g/l cyflufenamid

## **WARNING : TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS**

Avoid release to the environment.  
Wear protective gloves.  
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.

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

**THE (COSHH) CONTROL OF SUBSTANCES HAZARDOUS TO HEALTH REGULATIONS MAY APPLY TO THE USE OF THIS PRODUCT AT WORK.**

<b>IMPORTANT INFORMATION FOR USE ONLY AS AN AGRICULTURAL FUNGICIDE</b>	
<b>Crops:</b>	Barley, Durum wheat, Oats, Rye (winter), Triticale, Wheat
<b>Maximum individual dose :</b>	0.5L product per hectare
<b>Maximum number of applications:</b>	2 per crop
<b>Latest time of application:</b>	Before the start of flowering (GS60)
<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>	

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

### **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. 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.

### **Environmental protection**

Do not contaminate water with the product or its container.

Do not clean applicator equipment near surface water.

Avoid contamination via drains from farmyards and roads.

### **Storage and disposal**

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

PROTECT FROM FROST.

STORE IN A COOL DRY PLACE

DO NOT RE-USE EMPTY CONTAINER for any purpose.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS. KEEP OUT OF THE REACH OF CHILDREN.

<b>Approval Holder :</b> Clayton Plant Protection Ltd., Bracetown Business Park, Clonee, Dublin 15. Ireland.  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>	<b>Pack size :</b> XXX e  <b>RDN 3082</b>  <b>SHAKE WELL BEFORE USE.</b> <b>Batch No :</b> *see footnote
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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.

*\* Clayton batch numbers have complete traceability back to the original manufacturer's batch numbers and are available to CRD on request. Clayton Roulette with MAPP number 18017 has been confirmed by CRD to be identical to the reference product MAPP No: 15238.*

### **DIRECTIONS FOR USE - READ CAREFULLY BEFORE OPENING THE BOTTLE**

**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 use and successful use of this product.

Clayton Roulette is a protectant fungicide with useful curative activity against Powdery mildew in a range of cereal crops.

#### **Timing and number of applications**

Clayton Roulette can be used on all varieties of wheat, barley, oats, rye (winter), durum wheat, triticale from the beginning of stem elongation (GS30) and before the start of flowering (GS60). A maximum of two applications of Clayton Roulette may be applied to any one crop. Clayton Roulette should be applied at the first visible signs of infection by Powdery mildew. For the control of other diseases Clayton Roulette should be tank mixed with a broad-spectrum fungicide. Where disease pressure remains high or re-infection occurs, a further application of Clayton Roulette can be made to the crop.

**Rate of Use :** 0.5L/ha Clayton Roulette per application Apply as a FINE or MEDIUM spray (as defined by the BCPC) using a conventional hydraulic sprayer.

**Mixing :** Half fill the spray tank with clean water. Commence agitation. Add the recommended quantity of Clayton Roulette to the spray tank. Complete filling and maintain agitation of the solution before and during spraying until the tank is empty.

**Water Volume:** Use between 200 to 400 litres per hectare as it is important to obtain good overall coverage of the crop. If the crop is dense, use the higher water volume. Use the lower water volume if the crop is very open.

**Compatibility :** Clayton Roulette can be tank mixed with a number of fungicide products to broaden the disease spectrum. The other product labels should be checked thoroughly prior to use to ensure that the crops, timing and any other restrictions on them are appropriate for use with Clayton Roulette. Tank mixes should not be allowed to stand in the tank and agitation must be maintained at all times. Clayton Roulette is compatible in two-way tank mixes with any one of the following products:- approved formulations of prochloraz, cyproconazole, azoxystrobin, fenpropimorph, tebuconazole, epoxiconazole. The crop safety of these tank-mixes has only been established on winter wheat and winter barley. On winter wheat some transient chlorosis/necrosis has been recorded which has not affected final yield.

**Resistance Management :** The mode of action of cyflufenamid is different to that of fungicides from other groups. There are no known cases of cross resistance to cyflufenamid in pathogens that have developed reduced sensitivity to other fungicides. Disease control may be reduced if strains of pathogens less sensitive to cyflufenamid develop. Guidelines issued by FRAC may help to reduce the onset of resistant strains:

- Apply Clayton Roulette at the start of foliar disease attack.
- Clayton Roulette must be used as part of an Integrated Crop Management programme that includes use in alternation or tank mixture with fungicides with different modes of action effective against powdery mildew AS WELL AS non-chemical methods of disease management.
- Do not apply consecutive applications of products containing cyflufenamid.
- Apply according to manufacturers' recommendations at the specific crop growth stage indicated.
- Apply a maximum of 2 sprays per cereal crop.

**Rainfastness** : Clayton Roulette is rainfast within one hour.

**Restrictions** : Do not apply Clayton Roulette to crops under stress from drought, waterlogging, cold, pests or diseases, nutrient or lime deficiency or other factors reducing plant growth.

**Succeeding and Replacement Crops** : There are no restrictions on the planting of any succeeding or rotational crop following the application of Clayton Roulette.

**Spray Tank Clean-out** : Immediately after spraying Clayton Roulette, drain tank completely. Any contamination on the outside of the spraying equipment should be removed by washing with water and a suitable commercially available cleaning agent. Rinse inside of tank with clean water and cleaning agent. Flush through boom and hoses using at least one tenth of the spray tank volume. Drain completely. Repeat rinsing as above.

Do not contaminate surface waters or ditches with rinse water or empty containers.

**Warning** : Avoid spray drift onto ponds, waterways and ditches.

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