

# CLAYTON EDGE

MAPP 12911

contains 100 g/l fluoxastrobin, a strobilurin fungicide, and 100 g/l prothioconazole in an emulsifiable concentrate with gamma-butyrolactone and 2-ethylhexanol propylene ethyleneglycol ether

**Fungicide for the control of a certain diseases of winter wheat, winter rye, winter and spring barley.**



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

**DANGEROUS FOR THE 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 AN AGRICULTURAL FUNGICIDE

Crop	Maximum individual dose of product	Maximum total dose of product	Latest time of application
Winter wheat Winter rye	1.5 l/ha	3 l/ha	Before grain milky ripe stage
Barley	1.25 l/ha	2.5 l/ha	Beginning of flowering

### Other specific restrictions

No more than two applications of QoI fungicides must be applied to any cereal crop.

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

WASH ANY CONTAMINATION from eyes immediately.

WHEN USING, DO NOT EAT, DRINK OR SMOKE.

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

IF YOU FEEL UNWELL, seek medical advice immediately (show the label where possible).

### **Environmental protection**

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

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 published guidance or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for inspection for three years.

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.

RISK TO NON-TARGET INSECTS OR OTHER ARTHROPODS. See Direction for Use.

### **Storage and disposal**

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

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

KEEP OUT OF REACH OF CHILDREN.

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

DO NOT RE-USE CONTAINER for any purpose.

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

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

Safety data sheet available for professional user on request.

This product is approved under the Plant Protection Products Regulations (as amended).

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

Contents: **5 litres**

PROTECT FROM FROST  
STORE IN A COOL DRY PLACE  
SHAKE THOROUGHLY BEFORE USE

Tel: (00 353) 1 8210127

Batch No:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains fluoxastrobin and prothioconazole solution). 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.

### RATE OF APPLICATION

#### Winter wheat and winter rye

Apply Clayton Edge at 1.5 l/ha. Up to 3 l/ha of product in total may be applied before the grain is milky ripe.

#### Winter and spring barley

Apply Clayton Edge at 1.25 l/ha. Up to 2.5 l/ha of product in total may be applied up to the start of flowering.

### WINTER WHEAT

Disease	Time of treatment
Eyespot ( <i>Tapesia spp.</i> ) - reduction of disease	Spray as soon as disease is seen from the leaf sheaths becoming erect up to and including the 1 <sup>st</sup> node detectable stage GS 30-32.
Powdery mildew ( <i>Erysiphe graminis</i> ) - reduction of disease	Powdery mildew will be reduced when Clayton Edge is applied to control another disease listed in this table. However, if powdery mildew is amongst the prime diseases to be controlled, use a specific mildewicide in the spray programme.
Leaf spot ( <i>Septoria tritici</i> ) Glume blotch ( <i>Septoria nodorum</i> )	Normally spray from flag leaf just visible up to mid-flowering GS 37-65. Under higher risk conditions, spray earlier, before disease reaches the upper leaves. Repeat if necessary.
Brown rust ( <i>Puccinia spp.</i> ) Yellow rust ( <i>Puccinia spp.</i> )	Treat when the disease first appears. If necessary repeat 2-3 weeks later. Timely treatment to prevent the diseases becoming established gives the best results.
Ear disease complex - reduction of disease	An application made shortly after ear emergence primarily to control another disease listed in this table will usually result in brighter ears by reducing the complex of diseases on the ears.

### WINTER AND SPRING BARLEY, WINTER RYE

Disease	Time of treatment
Eyespot ( <i>Tapesia spp.</i> ) - reduction of disease	Spray as soon as disease is seen from the leaf sheaths becoming erect up to and including the 1 <sup>st</sup> node detectable stage GS 30-32.
Powdery mildew ( <i>Erysiphe graminis</i> )	Powdery mildew will be reduced when Clayton Edge is applied to control another disease listed in this table. However, if powdery mildew is amongst the prime diseases to be controlled, use a specific mildewicide in the spray programme.
Brown rust ( <i>Puccinia spp.</i> )	Treat when the disease first appears. If necessary repeat 2-3 weeks later. Timely treatment to prevent the disease becoming established gives the best results.
Leaf blotch ( <i>Rhynchosporium secalis</i> )	Treat when the disease first appears. If necessary, particularly when conditions have favoured the disease, repeat 2-3 weeks later.
Net blotch in barley ( <i>Pyrenophora teres</i> )	Treat on initial sight of the disease. Repeat 2-3 weeks later for best control especially if conditions have continued to favour the disease.

**Caution:** a short-lived yellowing of the leaves may be seen on occasions following an application of Clayton Edge to wheat or barley. The effect is normally minimal set against the yield responses achieved.

### FUNGICIDAL EFFICACY

Clayton Edge contains a DMI fungicide. Resistance to some DMI fungicides has been identified in *Septoria* leaf blotch (*Mycosphaerella graminicola/Septoria tritici*) which may seriously affect the performance of some products. For further advice on resistance management in DMIs contact your agronomist or specialist advisor, and visit the FRAG-UK website.

An alternative fungicide with a different mode of action should be used if strains of disease less sensitive to Clayton Edge develop as the level of disease control obtained from the continued use of Clayton Edge may be reduced. Alternate or tank-mix applications of fungicides from different groups with different modes of action will minimise the occurrence of less sensitive strains.

## DISEASE RESISTANCE MANAGEMENT

Clayton Edge contains fluoxastrobin, a member of the QoI cross resistance group of fungicides. Clayton Edge should be used preventatively and should not be relied upon for curative potential.

### General advice

- Where available, make full use of disease-resistant varieties.
- Minimise the use of fungicides by avoiding unnecessary prophylactic treatments and particularly repeated applications of fungicides of the same group.
- Alternate applications of fungicides from different groups. Use the recommended dose.
- Make as full a use as possible of fungicides with a multi-site mode of action, which are less prone to fungicide resistance problems.

### Specific advice

- Use Clayton Edge as part of an Integrated Crop Management (ICM) strategy incorporating other methods of control, including where appropriate, other fungicides with a different mode of action. Do not apply more than two foliar applications of QoI containing products to any cereal crop.
- There is a significant risk of widespread resistance occurring in *Septoria tritici* populations in the UK. Failure to follow resistance management action may result in reduced levels of disease control.
- Strains of wheat powdery mildew resistant to QoI group fungicides are current in the UK. If the existence of strains of wheat powdery mildew is known or suspected, use Clayton Edge in conjunction with a specific powdery mildew fungicide from a different cross resistance group.

### APPLICATION (BCPC definitions)

Mix the recommended dose in 200-300 l/ha (20-30 gal/ac) water and apply as a MEDIUM spray produced at 2-3 bar. Use the higher water volume when crop growth is dense or the disease pressure is high. Adjust boom height so that spray from alternate nozzles meets just above the crop. Ensure thorough coverage of the crop. Avoid spray drift.

### WEATHER AND GROWING CONDITIONS

Do not treat crops under growing stresses however caused. Spray onto dry crop leaves when rain is not imminent. Do not apply during frosty weather.

### PROTECTION OF NON-TARGET ORGANISMS

Avoid application within 6m of the field boundary to reduce the effects on non-target insects or other arthropods.

### MIXING

Shake the container thoroughly before use. Half-fill the sprayer tank with clean water. With the contents of the spray tank under agitation, add the required quantity of Clayton Edge. Maintain agitation whilst topping up the tank to the required level and until the completion of spraying. Spray immediately after mixing. Wash all equipment thoroughly immediately after use.

### CLEANING OF EQUIPMENT

After each days use thoroughly clean all equipment with water and a cleaning agent recommended for the cleaning of sprayers.

### MAXIMUM RESIDUE LEVELS

The following maximum residue levels must not be exceeded in the harvested crop:

Fluoxastrobin	Wheat and rye	0.05 mg/kg
	Barley	0.5 mg/kg
Prothioconazole	Wheat and rye	0.01 mg/kg
	Barley	0.05 mg/kg

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