

CLAYTON KUDOS

MAPP 16580

Contains 90 g/l epoxiconazole (8.4 % w/w) and 125 g/l isopyrazam (11.7 % w/w) in a suspension concentrate.

Fungicide for the control of certain foliar diseases of the listed cereals.



HARMFUL

**Harmful by inhalation
May cause sensitisation by skin contact
Possible risk of impaired fertility
Possible risk of harm to the unborn child
Limited evidence of a carcinogenic effect**



DANGEROUS FOR THE ENVIRONMENT

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Contains isopyrazam: may produce an allergic reaction.

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 number of treatments	Latest time of application
Winter wheat, rye, triticale	1 l/ha	2 per crop	Before grain watery ripe stage GS71
Winter barley Spring barley	1 l/ha	2 per crop	Before beginning of flowering GS61

Other specific restrictions

1. No more than two applications of products containing SDH inhibitors must be applied to any cereal crop.
2. A minimum interval of 21 days must be observed between applications.
3. The earliest time of application is GS30.

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 CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when handling the concentrate or handling contaminated surfaces.

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

Avoid contact with skin.

Wear suitable protective clothing and gloves.

WASH SPLASHES from skin immediately.

WASH HANDS AND EXPOSED SKIN before meals and after work.

IF SWALLOWED, seek medical advice immediately and show this container or label.

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.

Use appropriate containment to avoid environmental contamination.

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 CRD 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.

To protect aquatic organisms, respect an unsprayed buffer zone to surface water bodies in line with LERAP requirements.

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

Aim spray away from water.

Storage and disposal

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

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.

KEEP OUT OF REACH OF CHILDREN.

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.

Safety data sheet available for professional user on request.

LERAP Category: B

Clayton Plant Protection (UK) Ltd.
Bracetown Business Park
CLONEE, Dublin 15
Ireland.

Tel: (00 353) 1 8210127

Contents: **1-10 litres**

PROTECT FROM FROST

Shake thoroughly before opening

Batch No:

Permit holder: Clayton Plant Protection Ltd; address as above.

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

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.

ACTIVITY/USE

Clayton Kudos is a suspension concentrate formulation of isopyrazam, an SDHI fungicide (FRAC group 7 Pyrazole carboxamide) and epoxiconazole a DMI fungicide (FRAC group 3 Triazole). Primarily isopyrazam is a protectant fungicide whilst epoxiconazole is a protectant fungicide with curative activity.

Optimum economic responses are most likely to be obtained from crops with high yield potential, growing under good conditions with adequate soil moisture. Conversely, worthwhile responses are less likely to be obtained from crops with a lower yield potential or growing under less than optimum conditions. Do not treat crops lacking vigour.

Clayton Kudos may be applied to all varieties of winter wheat, winter and spring barley, winter rye and triticale. Use as recommended against the target diseases within the growth stages indicated.

Wheat crops may suffer minor temporary foliar bleaching following treatment but this is normally without effect upon yield.

RATE OF APPLICATION

Apply Clayton Kudos at 1 litre per ha.

RECOMMENDED USAGE

Use as part of an integrated disease control strategy in conjunction with other methods of control. Best results are usually obtained from applications made as soon as disease appears upon regular crop inspections or, if according to a plan based upon the judgment of the expected disease challenge to the crop, before disease appears.

Winter wheat

Disease	Degree of control	Application range
Leaf spot (<i>Septoria tritici</i>)	Control	Apply between the start of stem elongation GS30 and flowering just complete GS69. Allow at least 21 days between treatments. Maximum 2 applications per crop.
Glume blotch (<i>Septoria nodorum</i>)	Control	
Yellow rust (<i>Puccinia striiformis</i>)	Control	
Brown rust (<i>Puccinia recondita</i>)	Control	

Winter barley, Spring barley

Disease	Degree of control	Application range
Brown rust (<i>Puccinia hordei</i>)	Control	Apply between the start of stem elongation GS30 and ear emergence just complete GS 59 but for barley intended for malting apply no later than first awns visible GS49 – see note*. Allow at least 21 days between treatments. Maximum 2 applications per crop.
Net blotch (<i>Pyrenophora teres</i>)	Moderate	
<i>Ramularia</i> leaf spots (<i>R. collo-cygni</i>)	Control	
Leaf blotch (<i>Rhynchosporium secalis</i>)	Reduction	

* Epoxiconazole with isopyrazam is accepted by the British Beer and Pubs Association (BBPA) for use on malting barley provided application is made before the start of ear emergence.

Winter rye, Triticale

Disease	Degree of control	Application range
Brown rust (<i>Puccinia recondita</i>)	Control	Apply between the start of stem elongation GS30 and flowering just complete GS69. Allow at least 21 days between treatments. Maximum 2 applications per crop.
<u>Triticale only</u> Leaf spot (<i>Septoria spp.</i>)	Control	
<u>Winter rye only</u> Leaf blotch (<i>Rhynchosporium secalis</i>)	Reduction	

FUNGICIDAL EFFICACY

Use Clayton Kudos as part of an Integrated Crop Management 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 products containing SDH inhibitors to any cereal crop. Refer to current FRAG-UK guidelines for SDHI compounds.

Clayton Kudos contains epoxiconazole, 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.

Disease control may be reduced if strains of pathogens less sensitive to Clayton Kudos develop.

APPLICATION

Apply to dry crop foliage, when rain is not expected for at least one hour, as a MEDIUM spray (BCPC) ideally produced at 2-3 bar. Apply in 100-400 l/ha water through a correctly adjusted and calibrated conventional hydraulic sprayer fitted with fan nozzles. Adjust the water volume as necessary to achieve good coverage of the crop including the lower leaves and stem bases; use the higher water volume when crop growth is dense or the disease pressure is high. Good spray cover of the crop is essential for optimum disease control. Spray accurately to avoid overlapping spray swaths. Avoid spray drift onto neighbouring crops and field margins.

MIXING

SHAKE THE PRODUCT IN ITS CONTAINER thoroughly before opening. Half-fill the spray tank with clean water and put under agitation. Add the required quantity of Clayton Kudos to the spray tank. Maintain agitation whilst topping up the tank to the required level and until the completion of spraying. Spray immediately after mixing; do not allow mixed spray to stand. DO NOT KEEP mixed spray for use next day. Wash all equipment thoroughly immediately after use.

When tank-mixing with a compatible product follow the Directions for Use of the other product to be applied in the tank-mix together with those of this label. Mix each product separately in the spray tank. Disperse Clayton Kudos in the spray tank firstly unless directed otherwise.

COMPATIBILITY

Clayton Kudos is physically compatible for co-application with certain approved pesticides. Please contact your distributor for further information.

FOLLOWING CROPS

No restrictions are placed on following cropping in a normal agricultural rotation after the use of Clayton Kudos on a cereal crop treated as per this label.

CLEANING OF EQUIPMENT

Immediately after use, thoroughly clean the sprayer with water and a cleaning agent recommended for the cleaning of spraying machines following standard cleaning procedures. Dispose of washings as per the DEFRA Code of Practice.
