

**Clayton Plant Protection Ltd**

**CLAYTON TUSKAR**

An emulsifiable concentrate (EC) fungicide containing 250 g/L prothioconazole for the control of certain diseases in wheat, barley, oats, durum wheat, winter rye and winter oilseed rape. **MAPP 19320**

**Clayton Tuskar** : Contains 250 g/L prothioconazole and N,N,-Dimethyl decanamide



**Warning**

**Causes serious eye irritation**

**May cause respiratory irritation.**

**Very toxic to aquatic life with long lasting effects.**

Keep out of reach of children.

Wear protective gloves/protective clothing/eye protection/face protection.

IF exposed or concerned: Get medical advice/attention. Collect spillage.

Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for triple rinsed empty clean containers which can be disposed of as non-hazardous waste.

Contains 2-[2-(1-chlorocyclopropyl)-2-hydroxy-3-phenylpropyl]-2,4-dihydro-3H-1,2,4-triazole-3-thione.

May produce an allergic reaction

**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.

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| <p><b>Authorisation holder:</b><br/>Clayton Plant Protection Limited, Bracetown Business Park, Clonee, Dublin 15, Ireland<br/>Telephone: +353-1-8210127    www.claytonpp.com</p> | <p>Pack Size 5L e<br/><br/>UN 3082</p> |
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**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 AND FACE PROTECTION (FACESHIELD) when handling the concentrate.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) when applying the product.

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

WHEN USING DO NOT EAT DRINK OR SMOKE.

WASH ANY CONTAMINATION from eyes immediately.

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

WASH HANDS AND EXPOSED SKIN before eating and drinking 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).

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 water body, 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. Aim spray away from water.

This product qualifies for inclusion within the Local Environment 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'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.

### Storage and Disposal

KEEP OUT OF REACH OF CHILDREN

KEEP IN ORIGINAL CONTAINER tightly closed in a safe place.

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

DO NOT RE-USE CONTAINER for any purpose.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS

PROTECT FROM FROST

#### IMPORTANT INFORMATION. FOR USE ONLY AS A PROFESSIONAL FUNGICIDE

| Crop                             | Maximum individual dose (L/ha) | Maximum total dose per crop (L/ha) | Latest time of application    |
|----------------------------------|--------------------------------|------------------------------------|-------------------------------|
| Durum wheat, rye (winter), wheat | 0.8                            | 2.4                                | Before grain milky ripe stage |
| Barley, oats                     | 0.8                            | 1.6                                | Beginning of flowering        |
| Oilseed rape (winter)            | 0.7                            | 1.4                                | 56 days before harvest        |

#### Other specific restrictions:

This product qualifies for inclusion within the Local Environment 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 the 'Local Environment Risk Assessment for Pesticides Horizontal Boom Sprayers' booklet available from the HSE Chemical Regulation Division's website or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for three years.

**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.**

### 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 Tuskar contains prothioconazole, DMI fungicide, recommended for control of a wide range of diseases on certain cereals and winter oilseed rape.

Resistance to some DMI fungicides has been identified in *Septoria* leaf blotch (*Mycosphaerella graminicola*) which may seriously affect the performance of some products. For further advice on

resistance management in DMI's contact your agronomist or specialist advisor, and visit the FRAG-UK website.

## CROPS

Clayton Tuskar may be used on all commercial varieties of winter and spring barley, winter and spring wheat, durum wheat, winter rye, winter and spring oats and winter oilseed rape.

## DISEASE CONTROLLED Cereals

|                                | Wheat,<br>Durum wheat                | Barley    | Oats | Winter Rye |
|--------------------------------|--------------------------------------|-----------|------|------------|
| Septoria leaf and glume blotch | C                                    |           |      |            |
| Yellow rust                    | C                                    | C         |      |            |
| Brown rust                     | MC                                   | C         |      | C          |
| Crown rust                     |                                      |           | C    |            |
| Rhynchosporium                 |                                      | C         |      | C          |
| Net blotch                     |                                      | C         |      |            |
| Eyespot                        | C                                    | C         | C    | C          |
| Powdery mildew                 | C                                    | C         | C    | C          |
| Tan Spot                       | MC                                   |           |      |            |
| Fusarium ear blight            | MC                                   | MC        |      |            |
| Sooty moulds                   | reduction                            | reduction |      |            |
|                                | C = control    MC = moderate control |           |      |            |

**Septoria Leaf Blotch and Glume Blotch (*Mycosphaerella graminicola* and *Stagonospora nodorum*)** Apply before disease is established in the crop. To protect the upper leaves and ear apply Clayton Tuskar at full flag leaf emergence (GS 37) up to mid-flowering (GS 65). Where disease pressure remains high application may be repeated. Applications to upper leaves where *S. tritici* symptoms are present are likely to be less effective.

### **Yellow Rust (*Puccinia striiformis*)**

Apply Clayton Tuskar at the first signs of disease. Clayton Tuskar controls yellow rust in wheat, durum wheat and winter barley. A second application may be made 2-3 weeks later if re-infection occurs. Applications made to established infections are likely to be less effective.

### **Brown Rust**

Apply Clayton Tuskar at the first signs of disease. Clayton Tuskar controls brown rust in barley (*Puccinia hordei*) and winter rye (*P. recondita*) and will give moderate control of brown rust in wheat and durum wheat (*P. recondita*). A second application may be made 2-3 weeks later if re-infection occurs. Applications made to established infections are likely to be less effective.

### **Crown Rust (*Puccinia coronata*)**

Apply Clayton Tuskar at the first signs of disease. Clayton Tuskar controls crown rust in winter and spring oats. A second application may be made 2-3 weeks later if re-infection occurs. Applications made to established infections are likely to be less effective.

### **Eyespot (*Tapesia* spp.)**

Spray in the spring at the first sign of disease, from when the leaf sheaths begin to become erect until the 2nd node is detectable (GS 30-32)

**Leaf Blotch (*Rhynchosporium secalis*)**

Clayton Tuskar gives high levels of *Rhynchosporium* control. Apply Clayton Tuskar in spring at the first signs of disease. For severe infections a second application may be necessary 2-3 weeks later. **Net**

**Blotch (*Pyrenophora teres*)**

Apply Clayton Tuskar at the first signs of disease in spring/early summer. For severe infections, a second application 2-3 weeks later will give most effective control when conditions remain favourable for disease development.

**Powdery mildew**

Apply Clayton Tusker at the first signs of disease. Where disease pressure remains high application may be repeated. **Tan Spot**

Apply Clayton Tusker at the first signs of disease in spring/early summer. Clayton Tusker will give moderate control of tan spot in winter wheat. Where disease pressure remains high application may be repeated.

**Ear disease complex**

Clayton Tusker will give moderate control of Fusarium ear blight and reduction of sooty moulds if applied soon after ear emergence until the end of flowering (GS59-69). Control of ear diseases can result in cleaner, brighter ears. By reducing ear blight, Clayton Tusker effectively reduces the level of the Fusarium mycotoxin deoxynivalenol (DON) in wheat grain. However, if Fusarium levels are high, the reduction achieved may not always be sufficient to ensure that DON levels fall below the statutory limit.

**Oilseed rape Light Leaf Spot (moderate control)**

Apply Clayton Tuskar protectively in autumn/winter (usually late October to early December). Follow up treatment(s) may be required in early spring from the onset of stem elongation, depending on disease development.

**Phoma Leaf spot/Stem Canker**

Apply Clayton Tuskar in autumn at the first sign of disease. Repeat treatment in late autumn/winter, if disease symptoms reoccur.

***Sclerotinia* stem rot (*Sclerotinia sclerotiorum*)** Apply

Clayton Tuskar at early to full flower.

**Spring oilseed rape (QUALIFIED MINOR USE RECOMMENDATION)**

Clayton Tuskar can also be used on varieties of spring oilseed rape but crop safety has not been fully established.

**RESISTANCE**

Repeated application of Clayton Tuskar alone should not be used on the same crop against high risk pathogens such as cereal powdery mildew. Tank-mixtures or alternation with fungicides having a different mode of action (eg morpholines) have been shown to protect against the development of resistant forms of disease. The possible development of disease strains resistant to Clayton Tuskar cannot be excluded or predicted. Where such resistant strains occur, Clayton Tuskar is unlikely to give satisfactory control. Strains of Light Leaf Spot resistant to azole fungicides are known to exist. To avoid development of resistance apply product protectively in response to disease forecasts. Where possible, when Light Leaf Spot is present, avoid the use of azole based fungicides when targeting other diseases such as *Sclerotinia* at mid flowering.

**RATES OF USE AND TIMING Cereals**

Apply Clayton Tuskar at 0.8 L/ha.

The maximum total dose per crop is 1.6 L/ha for barley and oats and 2.4 L/ha for wheat, durum wheat and winter rye. Clayton Tuskar may be applied at any stage before grain milky ripe stage (GS71) in wheat, durum wheat and winter rye and up to the beginning of flowering in barley and oats."

### **Winter Oilseed Rape**

Apply Clayton Tuskar at 0.7 L/ha.

The maximum total dose per crop is 1.4 L/ha. Clayton Tuskar may be applied at any stage up to a preharvest interval of 56 days.

### **APPLICATION METHOD**

Apply with tractor mounted/trailed sprayer in 100-300 litres of water per hectare. In dense crops, at later growth stages, higher water volumes should be used crops to ensure good coverage and penetration. For winter oilseed rape, the higher spray volumes are recommended where the crop is dense or disease pressure / risk is high to ensure good penetration to the lower leaves and stem bases. Disease control maybe compromised by reducing water volumes, where good spray coverage is difficult to achieve. Apply as a MEDIUM quality spray (as defined by BCPC). A spay pressure of 2-3 Bar is recommended. Boom height should be adjusted to ensure even coverage of the crop, particularly at later growth stages. The correct height is one at which the spray from alternate nozzles meets just above the crop. Spray equipment should be thoroughly cleaned with detergent after use.

### **MIXING**

Thoroughly shake the pack before use. Sprayers should be thoroughly cleaned before use, and filters and jets checked for damage and blockages. Add the required quantity of Clayton Tuskar to the half-filled spray tank with the agitation system in operation and then fill to the required level. Continue agitation at all times during spraying and stoppages until the tank is completely empty. Spray immediately after mixing.

### **COMPANY ADVISORY INFORMATION**

This section is not part of the Product Label under the Plant Protection Products Regulations 1995 and provides additional advice on the product use at the discretion of the applicant.”

### **NOTICE TO BUYER**

All goods supplied by us are of a high grade and we believe them to be suitable for any purpose for which we expressly supply them, but as we cannot exercise control over their mixing or use, 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 for any damage or injury whatsoever arising from their storage, handling, application or use

Since the occurrence of resistance cannot be forecast, neither Clayton Plant Protection Limited nor its distributors can accept responsibility for any loss or damage to crops caused by the failure of Clayton Tuskar to control resistant strains.