Product registration number: MAPP 18208

ORTIVA Opti® is a suspension concentrate formulation containing 80 g/l azoxystrobin and 400 g/l chlorothalonil.

A broad spectrum fungicide for winter and spring wheat, winter and spring barley and triticale.

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

Syngenta UK Limited, CPC4, Capital Park, Fulbourn, Cambridge, CB21 5XE. Tel: Cambridge (01223) 883400

In case of toxic or transport emergency ring +44 (0) 1484 538444 anytime (24HR).

SAFETY PRECAUTIONS

(a) Operator protection
Engineering controls of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) 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.

AVOID ALL CONTACT WITH SKIN AND EYES. DO NOT BREATHE SPRAY.

WASH ALL PROTECTIVE CLOTHING thoroughly after use especially the insides of gloves.

WASH SPLASHES from skin or eyes immediately.

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

(b) Environmental protection
To protect aquatic organisms respect an unsprayed buffer zone distance 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 water body, unless a Local Environmental Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 1 m from 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 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’s published guidance or the statutory buffer zone must be maintained. The results from the LERAP must be recorded and kept available for three years.

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.

(c) Storage and disposal
KEEP IN ORIGINAL CONTAINER, tightly closed in a safe place.

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 safely.

DO NOT RE-USE CONTAINER FOR ANY PURPOSE.

PROTECT FROM FROST.
SHAKE WELL BEFORE USE.

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**ORTIVA Opti®**
A suspension concentrate formulation containing 80 g/l azoxystrobin and 400 g/l chlorothalonil.

**Danger**
- May cause an allergic skin reaction.
- Causes serious eye damage.
- Harmful if inhaled.
- May cause respiratory irritation.
- Suspected of causing cancer.
- Very toxic to aquatic life with long lasting effects.

Keep out of reach of children.
Avoid breathing spray.
Wear protective gloves/protective clothing/ eye protection/face protection.
Use personal protective equipment as required.

IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or doctor/physician.
Collect spillage.
Store in a well-ventilated place. Keep container tightly closed.
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.
Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

**MAPP 18208**

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**IMPORTANT INFORMATION FOR PROFESSIONAL USE ONLY AS AN AGRICULTURAL FUNGICIDE**

<table>
<thead>
<tr>
<th>Crops</th>
<th>Maximum individual dose (litres product/ha)</th>
<th>Maximum number of applications</th>
<th>Latest time of application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wheat and Triticale</td>
<td>1.8</td>
<td>2</td>
<td>Before ‘caryopsis watery ripe stage’ (GS 71)</td>
</tr>
<tr>
<td>Barley</td>
<td>1.8</td>
<td>2</td>
<td>Before ‘beginning of flowering’ (GS 61)</td>
</tr>
</tbody>
</table>

Other specific restrictions:
- No more than two applications of products containing Qol fungicides must be applied to any cereal crop.
- A minimum of interval of 14 days must be observed between applications.

**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 carefully read in order to obtain safe and successful use of this product.

GENERAL INFORMATION
ORTIVA Opti® contains both a strobilurin and phthalonitrile fungicide. It has systemic and preventative properties for the control of a wide range of diseases in all commercial varieties of winter and spring wheat, winter and spring barley and triticale. Azoxystrobin and other strobilurin analogues inhibit fungal respiration. Their mode of action is different from the action of other fungicidal groups and there is no known cross-resistance to this mode of action in pathogens which have developed reduced sensitivity to other fungicides. Chlorothalonil is a multi-site fungicide and shows no cross resistance to strobilurins or triazoles.

ORTIVA Opti shows good crop safety, disease control and maintenance of green leaf area which results in significant yield benefits.

ORTIVA Opti is best used as a protectant treatment or in the earliest stages of disease development.

RESTRICTIONS
Certain apple varieties are highly sensitive to azoxystrobin. As a precaution ORTIVA Opti should not be applied when there is a risk of spray drift onto neighbouring apple crops. Spray equipment used to apply ORTIVA Opti to other crops should not be used to treat apples.

DISEASES CONTROLLED

Winter and Spring Wheat
Leaf Spot (*Mycosphaerella graminicola*)
Leaf Blotch, Glume Blotch (*Leptosphaeria* (syn. *Septoria*) *nodorum*)
Yellow Rust (*Puccinia striiformis*)
Brown Rust (*Puccinia recondita*)
Powdery Mildew (*Eyrisphe graminis*)
Cladosporium spp.
Tan spot (*Pyrenophora tritici-repentis*) [Moderate control]

Winter and Spring Barley
Net blotch (*Pyrenophora teres*) [Moderate control]
Brown Rust (*Puccinia hordei*)
Leaf Blotch (*Rhynchosporium secalis*) [Moderate control]
Ramularia leaf spot (*Ramularia collo-cygni*)

Triticale
Leaf Spot (*Mycosphaerella graminicola*)
Brown Rust (*Puccinia recondita*)

CROPS AND GROWING CONDITIONS
ORTIVA Opti can be used on a wide range of commercial varieties of winter and spring wheat, spring and winter barley and triticale. Apply ORTIVA Opti under good growing conditions with adequate soil moisture. Avoid poor growing conditions which may give less reliable results.
DOSE

Wheat and Triticale
Apply 2 applications of 1.8 litres/ha from the beginning of stem elongation (GS 30) allowing a minimum interval of 14 days between applications.
The latest time of application for ORTIVA Opti is before ‘caryopsis watery ripe stage’ (GS 71).

Barley
Apply 2 applications of 1.8 litres/ha from the beginning of stem elongation (GS 30) allowing a minimum interval of 14 days between applications.
The latest time of application for ORTIVA Opti is before ‘beginning of flowering’ (GS 61).

TIMING
Always inspect crops to assess disease development immediately before spraying. Best results will be achieved from applications made as a protectant treatment or in the earliest stages of disease development following a disease risk assessment or the use of appropriate decision support systems.

RECOMMENDATIONS
Use ORTIVA Opti as part of a disease management programme. Control of Septoria spp., Brown rust and Yellow rust in wheat may be improved by using ORTIVA Opti with an appropriate triazole mixture partner. This is also good practice for resistance management.

Treatment at the onset of disease development will ensure best results. Further applications may be needed if disease attack is prolonged.

APPLICATION

MIXING AND SPRAYING
Make sure the sprayer is set to give an even application at the correct volume. Fill the spray tank with half the required volume of clean water and start agitation. Add the required amount of ORTIVA Opti to the spray tank. Agitate the mixture thoroughly before use and continue agitation during spraying. Thoroughly wash all spray equipment with water immediately after use.

Wash out containers thoroughly, preferably using an integrated pressure rinsing device, or manually rinse three times. Add washings to the sprayer at the time of filling. Complete filling to the required volume and continue to agitate throughout the spraying operation.

Do not leave the spray liquid in the sprayer for long periods (such as during meal breaks or overnight).

VOLUME OF WATER AND SPRAYING
Apply in at least 150 litres of water per hectare using a medium quality spray (BCPC) at a pressure of at least 2 bar. Apply through conventional crop spraying equipment. In dense crops, increase the water volume to 250-400 litres per hectare to improve coverage.

AFTER SPRAYING
Thoroughly wash out sprayer according to manufacturer’s guidelines and dispose of washings and clean containers according to DEFRA Code of Practice and local water authority guidelines.
RESISTANCE MANAGEMENT
ORTIVA Opti is a co-formulated mixture of the strobilurin azoxystrobin and chlorothalonil. The two active ingredients possess different modes of action thus form part of a resistance management strategy.

ORTIVA Opti should be used preventatively and should not be relied on for its curative potential. Control of many diseases may be improved by using ORTIVA Opti with an appropriate triazole mixture partner. This is also good practice for resistance management.

Use ORTIVA Opti 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.

Azoxystrobin is a member of the Qol cross resistance group. You must not apply more than two foliar applications of Qol containing products to any cereal crop.

There is 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.

Disease control may be reduced if strains of other pathogens less sensitive to ORTIVA Opti develop.

Users should refer to current FRAG-UK guidelines for Qol compounds.

This product is to be used only in accordance with the recommendations and instructions given on the labels provided with this pack.

Section 6 of the Health and Safety at Work Act
Additional Product Safety Information

(This section does not form part of the product label under the Plant Protection Products Regulations 1995.)

The product label provides information on a specific pesticidal use of the product; do not use otherwise, unless you have assessed any potential hazard involved, the safety measures required and that the particular use has ‘Extension of use’ approval or is otherwise permitted under the Plant Protection Products Regulations.

The information on this label is based on the best available information including data from test results.