A broad-spectrum systemic and contact fungicide for the control of foliar and ear disease in cereals, oilseed rape, grassland and beet.

An emulsifiable concentrate containing 250 g/l (25.1 % w/w) propiconazole.

Contains propiconazole. May cause an allergic reaction.

SAFETY INFORMATION

Warning

Very toxic to aquatic life with long lasting effects. Contains propiconazole. May produce an allergic reaction.

Keep out of reach of children. Dispose of contents/container to a licensed waste disposal contractor or collection site except for triple rinsed, empty 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.
**IMPORTANT INFORMATION**
FOR PROFESSIONAL USE ONLY AS AN AGRICULTURAL FUNGICIDE

<table>
<thead>
<tr>
<th>Crop</th>
<th>Maximum individual dose (litres/product/ha)</th>
<th>Maximum number of applications (per crop)</th>
<th>Maximum total dose (L/ha)</th>
<th>Latest time of application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barley (winter &amp; spring), oats (winter &amp; spring), rye (winter &amp; spring), wheat (winter &amp; spring)</td>
<td>0.5</td>
<td>2</td>
<td>1.0</td>
<td>Before grain watery ripe stage (GS 71)</td>
</tr>
<tr>
<td>Oilseed rape</td>
<td>0.5</td>
<td>1</td>
<td>0.5</td>
<td>28 days before harvest</td>
</tr>
<tr>
<td>Sugar beet, fodder beet and mangolds</td>
<td>0.5</td>
<td>2*</td>
<td>1.0</td>
<td>28 days before harvest</td>
</tr>
<tr>
<td>Grassland (established)</td>
<td>0.5</td>
<td>1</td>
<td>0.5</td>
<td>28 days before any cut</td>
</tr>
<tr>
<td>Grassland (seed crop)</td>
<td>0.5</td>
<td>2 **</td>
<td>1.0</td>
<td>35 days before harvest</td>
</tr>
</tbody>
</table>

Other specific restrictions:
* A minimum interval of 21 days must be observed between applications to sugar beet/fodder beet and mangolds.
* ** This product must only be applied to grass seed crops in the year of harvest.

**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.  

Do not contaminate water with the product or its container.  

BUMPER™ is a fungicide containing propiconazole, of the triazole family.  

**RESISTANCE MANAGEMENT**

BUMPER is a triazole group fungicide and 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. Strains of wheat powdery mildew with decreased sensitivity to triazoles are common in Ireland. For further advice on resistance management in DMIs contact your agronomist or specialist advisor and visit the FRAG-UK website. When possible, alternate the use of BUMPER with fungicides not of the triazole group i.e. with fungicides having different modes of action, or use in tank-mixes designed to help combat resistance. Over-reliance on BUMPER against pathogens, such as powdery mildew, with a tendency to develop resistant strains, is to be avoided. Fungicides should be used in combination with cultural methods such as crop rotation and use of disease resistant varieties.
**MODE OF ACTION**
BUMPER is a systemic and contact fungicide, with a broad spectrum of plant disease activity. When applied to the plant foliage, BUMPER is readily translocated to the site of activity. The rate of absorption depends on the prevailing local conditions being best under warm moist growing weather.

**DISEASES CONTROLLED**
BUMPER is recommended for the control of the following diseases, however, it is only recommended for reduction in Leaf spot on oilseed rape and *Ramularia* on beet and mangolds.

<table>
<thead>
<tr>
<th>Disease</th>
<th>Wheat</th>
<th>Barley</th>
<th>Oats</th>
<th>Rye</th>
<th>OSR</th>
<th>Sugar beet, fodder beet &amp; mangolds</th>
<th>Grass</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Crop and Qualifier</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Septoria leaf blotch</td>
<td>R</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>(<em>Mycosphaerella graminicola</em>)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glume blotch</td>
<td>R</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>(<em>Phaeosphaeria nodorum</em>)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Powdery mildew</td>
<td>-</td>
<td>-</td>
<td>C</td>
<td>C</td>
<td>-</td>
<td>-</td>
<td>C</td>
</tr>
<tr>
<td><strong>Rhynchosporium secalis</strong> (leaf scald)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>R</td>
</tr>
<tr>
<td>Brown rust</td>
<td>C</td>
<td>C</td>
<td>-</td>
<td>C</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Yellow rust</td>
<td>C</td>
<td>C</td>
<td>-</td>
<td>C</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Crown rust</td>
<td>-</td>
<td>C</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>C</td>
</tr>
<tr>
<td>Light leaf spot</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>R</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Leaf spot (<em>Ramularia betae</em>)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>R</td>
<td></td>
</tr>
<tr>
<td>Sooty mould</td>
<td>C</td>
<td>C</td>
<td>C</td>
<td>C</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>(<em>Cladosporium spp.</em>)</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

**KEY:** R = Reduction  C = Control
TIMING

**Winter and spring wheat**
Early appearance of disease should be treated as soon as it is seen in the crop. When late foliar and ear diseases are seen they should be sprayed from flag leaf to ear emergence. Treatments should be repeated if weather conditions are favourable to disease spread.

**Winter and spring barley, oats and rye**
Treatments should be applied as soon as disease is seen in the crop.

**Grass for ensiling/hay or seed crops**
Treatments should be applied in spring as soon as disease is seen. If the grass is for ensiling, at least 28 days should elapse before cutting.

**Oilseed rape**
Treatment should be applied as soon as disease is seen in the crop.

**Sugar beet, fodder beet and mangolds**
Treatments should be applied as soon as disease is seen. If required, a second application may be made 21 days later.

RATE OF USE

BUMPER should be applied to all crops at 0.5 litres per hectare. Conventional ground applications should be made in a water volume of 100-200 litres of water per hectare at 2-3 bar.

APPLICATION

For use by tractor mounted/trailed sprayer/knapsack.
Shake well before use. Half fill the spray tank with clean water and begin agitation. Add the required amount of BUMPER and the remainder of water whilst agitating. Continue to agitate the mixture until spraying is completed. Wash out the sprayer thoroughly with water and add liquid detergent immediately after use. Finally, wash out with water and drain.
Do not re-use container for any other purpose.

TANK-MIXES/SEQUENCES

This product may only be used in a tank-mix or in sequence with other products when these uses comply with the label recommendations of every product in the tank-mix/sequence.

CONDITIONS OF SUPPLY

All products supplied by us are of high grade and conform to specification at the time of delivery, but, as we cannot exercise control over their subsequent storage, handling, mixing or use or the weather conditions before, during and after application which may affect the performance of the products, all conditions and warranties, statutory or otherwise, as to the quality or fitness for any purpose of our products are excluded and no responsibility or liability will be accepted by us or our re-sellers for any failure in performance, damage or injury to person or property whatsoever arising from the storage, handling, application or use of the products. These conditions cannot be varied by our staff or agents whether or not they supervise or assist in the use of such products.

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