



# BELCHIM

C R O P P R O T E C T I O N

## SPIKE® MAX

**Version and date:** Version 1 Summer 2018

**Changes since last version:** New product



This label is compliant with the CPA Voluntary Initiative Guidance

**FORMULATION AND ACTIVE INGREDIENT:** A suspo-emulsion concentrate containing 85 g/L (8.2% w/w) pyraclostrobin and 62.5 g/L (6% w/w) epoxiconazole. A protectant and systemic fungicide with curative properties for use in winter wheat, winter barley, spring wheat, spring barley, durum wheat, oats, rye and triticale.

**PACK SIZE:** 1 – 10L

**MAPP No.** 18551






**PROTECT FROM FROST  
KEEP DRY  
FOR PROFESSIONAL USE ONLY**

<b>IMPORTANT INFORMATION FOR USE ONLY AS AN AGRICULTURAL FUNGICIDE</b>			
<b>Crops/situations</b>	<b>Max. individual dose: (L product/ha)</b>	<b>Maximum number of treatments (per crop):</b>	<b>Latest time of application</b>
<b>Winter and spring wheat, durum wheat, rye and triticale</b>	2	2	Up to and including flowering complete (GS 69)
<b>Winter and spring barley, oats</b>	2	2	Up to and including emergence of ear just complete (GS 59)

**Other specific restrictions:**  
This product must not be applied via hand-held equipment.  
Non-returnable containers must not be re-used for any purpose.

**READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS  
INCONSISTENT WITH THE LABEL IS AN OFFENCE. FOLLOW THE CODE OF PRACTICE  
FOR USING PLANT PROTECTION PRODUCTS.**

<p><b>DANGER</b></p> 	<p><b>Spike Max</b></p>	<p><b>A suspo-emulsion containing 85 g/L (8.2% w/w) pyraclostrobin and 62.5 g/L (6% w/w) epoxiconazole</b></p>
	<p><b>H302+H332 H315 H317</b></p>	<p><b>Harmful if swallowed or if inhaled Causes skin irritation May cause an allergic skin reaction</b></p>
	<p><b>H351 H360Df H410</b></p>	<p><b>Suspected of causing cancer May damage fertility or the unborn child Very toxic to aquatic life with long lasting effects</b></p>
	<p>P260 P271</p>	<p>Do not breathe mist or vapour Use only outdoors or in a well-ventilated area</p>
	<p>P280 P308+P311</p>	<p>Wear protective gloves/protective clothing IF exposed or concerned: Call a POISON CENTRE or doctor/physician.</p>
	<p>P405 P501</p>	<p>Store locked up 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</p>
	<p><b>EUH401</b></p>	<p><b>To avoid risks to human health and the environment comply with the instructions for use.</b></p>
	<p>SP1</p>	<p>Do not contaminate water with the product or its container</p>

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

### 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 ALL CONTACT WITH SKIN
- WASH HANDS AND EXPOSED SKIN before meals and after work.
- WHEN USING DO NOT EAT, DRINK OR SMOKE.
- 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.
- DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5m of the top of the bank of a static or flowing waterbody, unless a Local Environment 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.

- 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 inspection for three years.

### Storage and Disposal

- KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.
- KEEP OUT OF REACH OF CHILDREN.
- 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
- Store in a suitable pesticide store. Keep dry and protect from frost.

### 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.**

SPIKE MAX is a fungicide with protectant, systemic and curative properties for use in winter and spring wheat, durum wheat, winter and spring barley, oats, rye and triticale.

Yield response may be obtained in the absence of visual disease.

### RESTRICTIONS/WARNINGS

Extreme care must be taken to avoid drift onto nearby crops.

Wash equipment thoroughly after use.

This product may cause damage to broad-leaved plant species.

Consult processor before use.

When applied to barley intended for malting, refer to the latest timing restrictions for epoxiconazole given by the British Beer and Pub Association.

### DISEASES CONTROLLED

SPIKE MAX is a fungicide with protectant, systemic and curative properties for use in winter and spring wheat, durum wheat, winter and spring barley, oats, rye and triticale. Disease control is summarised below:

	Winter wheat	Spring wheat	Durum wheat	Winter barley	Spring barley	Oats	Rye	Triticale
<i>Septoria tritici</i>	C	C	C	-	-	-	-	C
<i>Septoria nodorum</i>	C	C	C	-	-	-	-	C
Powdery mildew	-	-	-	C	C	C	C	-
Yellow rust	C	C	C	C	C	-	C	C
Brown rust	C	C	C	C	C	-	C	C
Net blotch	-	-	-	C	C	-	-	-
<i>Rhynchosporium</i>	-	-	-	C	C	-	C	-
Crown rust	-	-	-	-	-	C	-	-
Tan spot	C	C	C	-	-	-	-	-
<i>Ramularia</i>	-	-	-	R	R	-	-	-
<i>Fusarium</i> ear blight #	GR	GR	GR	-	-	-	-	-
Sooty moulds ( <i>Cladosporium</i> , <i>Botrytis</i> )	R	R	R	-	-	-	-	-

C = CONTROL

GR = GOOD REDUCTION

R = REDUCTION

#Application of SPIKE MAX to ears of wheat can lead to reduction of the levels of the mycotoxin deoxynivalenol (DON) associated with *Fusarium* ear blight infection, but this level of effect may not necessarily lead to reduction of DON below the statutory limit in wheat grain. Yield response in cereals may be obtained in the absence of visual disease.

## **RESISTANCE MANAGEMENT**

SPIKE MAX contains pyraclostrobin, a member of the QoI cross resistance group. SPIKE MAX should be used preventatively and should not be relied on for its curative potential.

When curative activity is needed apply QoI fungicides in mixture with a suitable dose of a curative fungicide from a different cross-resistance group. SPIKE MAX meets this requirement as it contains epoxiconazole. To ensure the effectiveness of the epoxiconazole component as a partner, SPIKE MAX should always be applied at the full recommended rate.

SPIKE MAX contains epoxiconazole, a DMI fungicide. 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 DMIs contact your agronomist or specialist advisor, and visit the FRAG-UK website.

Use SPIKE MAX 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. You must not apply more than two foliar applications of QoI containing products to any cereal crop.

There is a significant risk of widespread resistance to QoI cross resistance group fungicides occurring. Failure to follow resistance management action may result in reduced levels of disease control.

## **CROPS**

SPIKE MAX is approved for use in winter and spring wheat, durum wheat, winter and spring barley, oats, rye and triticale.

### **Time of Application**

Apply SPIKE MAX at the start of foliar disease attack. A maximum of two applications can be made before grain watery ripe in winter and spring wheat, durum wheat, rye and triticale and up to and including emergence of ear just complete in winter and spring barley and oats.

### **Rate of Application**

Apply 2 litres SPIKE MAX in 200 to 300 litres of water per hectare.

### **Qualified recommendation**

If required water volumes down to 100 litres per hectare may be used, however these have not been supported by effectiveness or crop safety data.

## **FOLLOWING CROPS**

After treating a cereal crop with SPIKE MAX onions, oats, sugar beet, oilseed rape, cabbages, carrots, sunflowers, barley, lettuce, ryegrass, dwarf French beans, peas, potatoes, clover, wheat, field beans and maize may be sown as the following crop.

The effect of SPIKE MAX on other crops has not been assessed.

## **MIXING AND SPRAYING**

Never prepare more spray solution than is required.

Half fill the spray tank with clean water and start the agitation. SHAKE THE CONTAINER WELL before use and pour in the required amount of product. Rinse any empty containers thoroughly and add rinsings to the spray tank. Add the remainder of the water and continue agitation until spraying is completed. Spray solution MUST be used on the day of mixing and must NOT be left overnight.

When tank mixes are to be used, take due note of any instructions given as to the order of

mixing. Each product should be added separately to the spray tank and fully dispersed before the addition of any further product(s).

All tank mixes should be used immediately after mixing.

On emptying the container, rinse container thoroughly by using an integrated pressure rinsing device or by manually rinsing three times. Add washings to tank at time of filling and dispose of container safely.

#### **CONDITIONS OF SUPPLY**

All goods supplied by us are of high grade and we believe them to be suitable but, as we cannot exercise control over their storage, handling, mixing or use, or the weather conditions before, during or 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. No responsibility will be accepted by us or re-sellers 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.

TECHNICAL ENQUIRIES:	01480 403333
24 HOUR EMERGENCY NUMBER:	0032 1458 4545

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