



# BELCHIM

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

## SPIRODOR

Version and date: Version 1 Autumn 2016

Changes since last version: New product

**FORMULATION AND ACTIVE INGREDIENT:** A suspension concentrate (SC) containing 500 g/L (41.3% w/w) chlorothalonil. A non-systemic broad spectrum fungicide for disease control in winter and spring wheat and winter and spring barley

**PACK SIZE:** 1 – 20 LT e



**MAPP No.** 17710

**PROTECT FROM FROST  
SHAKE WELL BEFORE USE  
FOR PROFESSIONAL USE ONLY**

<b>IMPORTANT INFORMATION FOR USE ONLY AS AN AGRICULTURAL FUNGICIDE</b>				
<b>Crops</b>	<b>Maximum individual dose (L/ha)</b>	<b>Maximum total dose (L/ha)</b>	<b>Maximum number of treatments</b>	<b>Latest time of application</b>
Wheat	2	-	2 per crop	Before GS71 (grain watery ripe stage)
Barley	2	-	2 per crop	Before GS51 (beginning of heading)

**Other specific restrictions**

1. 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 Chemicals 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.
2. 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 MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.**

**SPIRODOR**

A suspension concentrate containing 500 g/L (41.3% w/w) chlorothalonil.

**WARNING**

**H317** May cause an allergic skin reaction  
**H319** Causes serious eye irritation  
**H332** Harmful if inhaled  
**H335** May cause respiratory irritation  
**H351** Suspected of causing cancer  
**H410** Very toxic to aquatic life with long lasting effects

P102 Keep out of reach of children  
P201 Obtain special instructions before use  
P280 Wear protective gloves/protective clothing/eye protection/face protection  
P302+P352 IF ON SKIN: Wash with plenty of soap and water  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+P313 IF exposed or concerned: Get medical advice/attention  
P391 Collect spillage  
P501 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

**EUH401** To avoid risks to human health and the environment, comply with the instructions for use.

SP1: Do not contaminate water with the product or its container.

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), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate.
- 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.

- WASH ALL PROTECTIVE CLOTHING thoroughly after use, especially the inside of gloves.
- WASH SPLASHES from skin or eyes immediately.
- DO NOT BREATHE SPRAY
- WASH HANDS AND EXPOSED SKIN before eating, drinking or smoking and after work.

## 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 5m 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 1m 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 1m of the top of the bank of a static or flowing waterbody. 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 of the LERAP must be recorded and kept available for inspection 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.

## 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 the time of filling and dispose of safely.
- DO NOT RE-USE CONTAINER FOR ANY PURPOSE.

## 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.**

## DISEASES CONTROLLED

SPIRODOR contains chlorothalonil, a non-systemic broad spectrum fungicide for use on winter and spring wheat and winter and spring barley. When sprayed onto foliage it provides long lasting protection. Best results from this protectant property are obtained by treatment before disease enters the crop or at the first sign of attack.

### Disease control

#### Winter and Spring Wheat

Protection against Septoria Leaf Spot (*Mycosphaerella graminicola*) and Glume Blotch (*Leptosphaeria* (syn. *Septoria*) *nodorum*).

#### Winter and Spring Barley

*Rhynchosporium secalis* [moderate control]. Barley spotting control is also achieved when used as part of a programme with other fungicides.

It is particularly important to achieve a good spray coverage of all foliage.

## CROP SPECIFIC INFORMATION

### Wheat

Protection against Septoria Leaf Spot (*Mycosphaerella graminicola*) and Glume Blotch (*Leptosphaeria* (syn. *Septoria*) *nodorum*).

## **RATE OF USE**

Apply 2.0 litres in 200 litres of water per hectare as a MEDIUM spray (as defined by BCPC) at a pressure of at least 2.0 bar.

## **TIMING**

**Growth stage 30-32** (2nd node detectable). SPIRODOR may be applied once at up to a maximum individual dose of 2.0 L/ha if Septoria is evident and/or conditions are favourable for the spread of the disease. This may give protection against the spread of Septoria.

**Growth stage 33-65** SPIRODOR will provide protection against Septoria on the flag leaf and ear and should normally be applied between the third node detectable stage (GS 33) and the mid flowering stage (GS 65). For best results apply up to 2.0 L/ha between the third node detectable stage (GS 33) and the flag leaf fully emerged stage (GS 39). The activity of SPIRODOR against Septoria may be reduced in the presence of serious mildew infection. If mildew is also a problem combined use of SPIRODOR and a suitable mildew fungicide is recommended.

## **Barley**

*Rhynchosporium secalis* [moderate control]. Barley spotting control is also achieved when used as part of a programme with other fungicides.

## **RATE OF USE**

Apply 2.0 litres in a minimum of 200 litres of water per hectare as a MEDIUM spray (as defined by BCPC) at a pressure of at least 2.0 bar.

## **TIMING**

Apply the first application as soon as disease is first detected in the crop. A second application may be made before the beginning of heading: tip of inflorescence emerged from sheath, first spikelet just visible (GS 51) if severe *Rhynchosporium* pressure occurs or if there is a risk of leaf spotting.

## **MIXING AND SPRAYING**

### **Preparation of Sprayer:**

Ensure that the sprayer is clean and correctly set to give even application at the required volume. Half fill the spray tank with clean water and start agitation. Slowly invert the container several times and add the required amount of SPIRODOR to the sprayer using a filling device (e.g. induction hopper) or by direct addition to the spray tank. Rinse the container clean. Preferably use an integrated pressure rinsing device or manually rinse three times. Add washings to the sprayer at the time of filling. Agitate during completion of filling and while spraying. Do not leave in spray tank for long periods without using.

### **Volume of Water and Spraying:**

See individual crop recommendations for recommended water volume.

### **After Use:**

Dispose of rinsed container according to the DEFRA Code of Practice.

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

## **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

### **BELCHIM CROP PROTECTION LIMITED**

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