

# Avoca®

Contains 500 g per litre chlorothalonil in a suspension concentrate

MAPP No. 15549

## Fungicide for protection against certain diseases in wheat and barley

**Barclay Avoca. A suspension concentrate containing 500 g/l chlorothalonil**

**Harmful by inhalation**  
**Irritating to respiratory system**  
**May cause sensitization by skin contact.**  
**Limited evidence of a carcinogenic effect.**  
**Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment**  
 Wear suitable protective clothing and gloves.

**To avoid risks to man and the environment, comply with the instructions for use.**

THE CONTROL OF SUBSTANCES HAZARDOUS TO HEALTH REGULATIONS (COSHH) MAY APPLY TO THE USE OF THE PRODUCT AT WORK.



**HARMFUL**



**DANGEROUS FOR THE ENVIRONMENT**

### IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL FUNGICIDE

Crop	Maximum individual dose of product	Maximum number of treatments	Latest time of application
Wheat	2.0 l/ha	Two per crop	Before grain watery ripe stage (growth stage 71)
Barley	2.0 l/ha	Two per crop	Before beginning of heading (growth stage 51)

**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**

**SHAKE THOROUGHLY BEFORE USE**

**PROTECT FROM FROST**

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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 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.

WASH SPLASHES from skin or eyes immediately.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

DO NOT BREATHE SPRAY.

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

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

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

### 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.

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 HSE'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.

DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5m 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 metre 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 water body. Aim spray away from water.

To protect aquatic organisms respect an unsprayed buffer zone to surface water bodies in line with LERAP requirements.

### Storage and disposal

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

KEEP OUT OF THE REACH OF CHILDREN.

DO NOT RE-USE CONTAINER for any purpose.

This material and its container must be disposed of in a safe way.

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 the container safely.

Safety data sheet available for professional user on request.

This product is approved under the Plant Protection Products Regulations (as amended).

## 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.

For the best results, apply Barclay Avoca before disease appears according to a planned programme on the expected incidence of disease or as soon as disease appears. Control becomes more difficult once disease is established and potential yield may be reduced. The recommendations must be supplemented when necessary to meet specific disease threats not controlled or not fully controlled by chlorothalonil.

### WINTER AND SPRING WHEAT

Disease	Timing	Rate
Leaf spot Glume blotch ( <i>Septoria spp.</i> )  <i>The spread of Septoria spp. on upper leaves and ear is often associated with mildew. Reduced efficacy of Barclay Avoca might result when high mildew levels also occur. Overall efficacy can be improved by tank-mixing with an approved mildewicide (see Compatibility).</i>	<b>Early disease appearance/high risk situations:</b> spray if necessary after pseudostem erect to second node GS30-32 when disease first appears or if conditions appear favourable for disease development.  <b>From the third node to mid-flowering GS33-65:</b> normally spray from the flag leaf being visible up to and including ear emergence complete. If disease is found on the lower leaves and conditions favour its spread, spray as soon as practicable after the appearance of the flag leaf. However if the disease challenge is severe before the flag leaf becomes visible, treat as necessary between the third node and the appearance of the flag leaf GS33-37.  <i>Treatment correctly timed as above according to the disease incidence will effectively control the spread of disease upon the flag leaf and ear. Application too late under severe disease pressure is likely to give a reduction in disease levels only.</i>	2.0 l/ha in at least 200 l/ha water.  2.0 l/ha in at least 200 l/ha water.

### WINTER AND SPRING BARLEY

Disease	Timing	Rate
Leaf blotch ( <i>Rhynchosporium secalis</i> ) - moderate control.	Spray as soon as the disease becomes active. Repeat if required up to the awns being visible (GS 51).	2.0 l/ha in at least 200 l/ha water.
Barley Spotting	Control of Barley Spotting will be achieved when Barclay Avoca is used as part of a disease control programme.	2.0 l/ha in at least 200 l/ha water

### MIXING

Half fill the spray tank with clean water and start agitation. Add the required amount of Barclay Avoca to the sprayer. Agitate during completion of filling and while spraying. Do not leave in spray tank for long periods without using.

### APPLICATION

Apply by conventional mounted or trailed hydraulic sprayer only. Apply as a MEDIUM spray (BCPC definition), achieved at a minimum 2 bar. It is essential to ensure thorough coverage of the crop foliage with the spray.

### COMPATIBILITY

Barclay Avoca must always be applied in combination with a tank-mix partner, as part of an integrated disease control programme. Please contact your distributor for the complete list of products compatible with Barclay Avoca.

### CARE OF SPRAYER

Immediately after each days use with Barclay Avoca, wash out the sprayer thoroughly with clean water and a wetting agent (recommended for the cleaning of sprayers) according to standard cleaning procedures.