



# Kayak<sup>®</sup> Era

syngenta<sup>®</sup>

**GROUP 3 9 FUNGICIDES**



**Product registration number:** MAPP 21114

An Emulsifiable Concentrate (EC) containing 225 g/L of Cyprodinil and 75 g/L of Prothioconazole

For use against net blotch, *Rhynchosporium secalis*, brown rust, eyespot and *Ramularia collo-cygni* in spring and winter barley.

#### **Authorisation Holder and Marketing Company**

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**In case of toxic or transport emergency ring +44 (0) 1484 538444 any time**

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

**PROTECT FROM FROST.**

**STORE IN A COOL, DRY PLACE.**

#### **SAFETY PRECAUTIONS**

##### **(a) 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.

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 and eyes immediately.

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

##### **(b) 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.

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

To protect aquatic organisms respect an unsprayed buffer zone to surface water bodies in line with LERAP requirements. **DO NOT ALLOW DIRECT SPRAY** from horizontal boom sprayers to fall within 6 metres of the top of the bank of a static or flowing water body, or within 1 m of the top of a ditch which is dry at the time of application. Aim spray away from water. **THIS PRODUCT IS NOT ELIGIBLE FOR BUFFER ZONE REDUCTION UNDER THE LERAP HORIZONTAL BOOM SPRAYERS SCHEME.** This product qualifies for inclusion within the Local Environment Risk Assessment for Pesticides (LERAP) scheme. The statutory buffer zone must be maintained and the distance recorded in the LERAP record form. The LERAP record form must be kept available for three years.

##### **(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.

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The  
Voluntary  
Initiative

This product label is compliant with the  
CPA Voluntary Initiative (VI) guidance.

L1128057 GBRI/11C PPE 4220236

# 5 litres

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An emulsifiable concentrate (EC) containing 225 g/L of Cyprodinil and 75 g/L of Prothioconazole

### Danger

- Causes skin irritation.**
- May cause an allergic skin reaction.**
- Causes serious eye damage.**
- May cause respiratory irritation.**
- Very toxic to aquatic life with long lasting effects.**

Avoid breathing mist or vapours.  
Wash skin thoroughly after handling.  
Wear protective gloves/ eye protection/ face protection.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

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 CENTER/ doctor. Collect spillage.

Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except 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.**



MAPP 21114

### IMPORTANT INFORMATION

FOR USE ONLY AS A PROFESSIONAL FUNGICIDE

Crop	Maximum individual dose (L/ha)	Maximum no. of treatments (per crop)	Latest time of application	Aquatic Buffer Zone (m)
Barley	2.0	1	Tip of ear just visible (GS 51)	6

#### Other specific restrictions:

This product must not be applied via hand-held equipment.

#### 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.**

This leaflet is part of the approved Product Label.

## **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**

KAYAK ERA is an emulsifiable concentrate (EC) formulation containing 225 g/L cyprodinil and 75 g/L prothioconazole. It is a foliar fungicide treatment proposed for disease control in winter and spring barley.

Cyprodinil is a broad spectrum systemic fungicide from the pyrimidine group which acts by inhibiting the biosynthesis of methionine. The anilinopyrimidines (APs) are a group of fungicides highly active against a broad range of fungi. The mode of action includes inhibition of methionine biosynthesis and secretion of hydrolytic enzymes, which has been classified as a medium resistance risk.

Prothioconazole is a broad-spectrum systemic fungicide from the triazolothione family of compounds. It has curative, preventative and eradicated action. After absorption, prothioconazole moves into cells of the target organisms, affecting sterol biosynthesis and thereby disrupting membrane structure. This ultimately affects hyphal growth and germ tube elongation.

KAYAK ERA can be used on all varieties of barley.

## **RESTRICTIONS**

Apply KAYAK ERA under good growing conditions with adequate soil moisture. Avoid poor growing conditions which may give less reliable results. Occasionally, after application of KAYAK ERA, some transient chlorosis or necrosis may occur, but these symptoms should have no impact on yield.

## **DISEASES CONTROLLED**

### **Spring barley, Winter barley**

Net blotch

*Rhynchosporium secalis*

Brown rust

*Ramularia collo-cygni* – Moderate control

Eyespot - Reduction

## **RESISTANCE MANAGEMENT**

The combination of cyprodinil and prothioconazole in KAYAK ERA, both with different modes of action, can contribute to a resistance strategy. There is no known cross resistance between the two fungicide modes of action.

To reduce the risk of diseases developing resistance to prothioconazole and cyprodinil, KAYAK ERA should be used as part of a resistance management strategy, including the following:

1. Use KAYAK ERA at the recommended timings and rates. Reduced rate programmes provide continuous selection pressure and accelerate the development of resistant populations.
2. Curative applications should be avoided.
3. For *Ramularia* control, use KAYAK ERA in mixture with fungicides with good efficacy.

## **Cyprodinil**

For sound resistance management, good agricultural practices, including phytosanitary measures and crop protection should be followed. For cereal pathogens, specific guidelines are not yet regarded to be needed.

## **Prothioconazole**

1. Use amine fungicides in mixture or alternation programmes with different mode of action fungicides. When used in mixture recommended effective rates must be maintained.
2. Repeated application of amine fungicides alone should not be used on the same crop in one season against risky pathogens (e.g. barley net blotch) in areas of high disease
3. Split and reduced rate programmes, using multiple repeated applications at dose rates below manufacturer's recommendations, provide continuous selection pressure and accelerate the development of resistant populations, and therefore must not be used.
4. To ensure good performance and particularly resistance management in situations of even low disease pressure it is essential to adhere to dosages and spray timings as recommended by manufacturers. Curative applications should be avoided. Application timing has to be appropriate to all mix partners' characteristics. Mixing with a non-cross resistant fungicide at effective dose rates contributes to a more effective disease control and resistance management.
5. The amine fungicides are effective non-cross-resistant partner fungicides for DMIs on cereals for the control of pathogens included in the label recommendation of each respective product.

Based on the combination of the two active substances and following FRAC guidelines, the overall resistance risk for all proposed uses of KAYAK ERA, applied according to label recommendations, is considered to be acceptable.

## **CROP SPECIFIC INFORMATION**

Application of KAYAK ERA at early stages of disease development will ensure the best results.

For best control of Eyespot, spray KAYAK ERA before or during the period of stem extension in the spring (GS 30-32). Control of eyespot may be reduced when very dry periods follow application. For foliar disease: application of KAYAK ERA at the first sign of disease is recommended.

## **BARLEY**

### **Timing**

Apply KAYAK ERA between growth stage 30 and 51 (from the start of stem elongation until the tip of ear is just visible).

### **Rate of Use**

Apply KAYAK ERA at 2.0 litres per hectare once per crop.

## **MIXING AND SPRAYING**

Apply KAYAK ERA with conventional crop spraying equipment. The product is recommended to be applied at the maximum label rate of 2.0 l/ha in 150 - 400 litres of water per hectare using a medium quality spray (BCPC) at a pressure of at least 2 bar. Maintain agitation in the spray tank. Immediately after use, clean the spray equipment thoroughly. Drain the system completely and rinse spray tank, boom and nozzles at least twice with clean water until the foam and all traces of product have been removed.

To access the Safety Data Sheet for this product, scan QR code:



Alternatively, contact your supplier.