



# Ceratavo® Plus

syngenta.

**GROUP 7 FUNGICIDE**

Product registration number: PCS No: 05969  
UFI: D94A-90KU-500M-S16T

**PROTECT FROM FROST**  
**STORE ABOVE 5°C**  
**SHAKE WELL BEFORE USE**



CERATAVO® Plus is an emulsifiable concentrate containing 100 g/l (10.2% w/w) benzovindiflupyr.

Provides control of Septoria Leaf Blotch (*Zymoseptoria tritici*), Brown rust, Yellow rust and Glume blotch (*Septoria nodorum*) in winter and spring wheat; moderate control of Net blotch and *Ramularia collo-cygni*, the control of Brown rust and reduction of Leaf Blotch (*Rhynchosporium secalis*) on winter and spring barley; control of Septoria Leaf Blotch (*Zymoseptoria tritici*), Brown rust, Yellow rust and Glume blotch (*Septoria nodorum*) and reduction of *Rhynchosporium secalis* on triticale; control of Brown rust and reduction of *Rhynchosporium secalis* on rye and the moderate control of Crown rust on oats.

**FOR USE ONLY AS AN AGRICULTURAL FUNGICIDE. PLEASE SEE ACCOMPANYING LEAFLET FOR PRODUCT USE DETAILS.**

**FOR PROFESSIONAL USE ONLY**

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

CERATAVO® Plus is an emulsifiable concentrate containing 100 g/l (10.2% w/w) benzovindiflupyr.

**Danger**  
**Harmful if swallowed or inhaled.**  
**Causes serious eye damage.**  
**May cause an allergic skin reaction.**  
**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 CENTRE/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 CENTRE or doctor/physician.

Collect spillage.

Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for empty triple rinsed clean containers which can be disposed of as non-hazardous waste.



PCS No: 05969

UFI: D94A-90KU-500M-S16T

**Authorisation Holder**

Syngenta UK Limited, Jealott's Hill International  
Research Centre, Bracknell, Berkshire, RG42 6EY  
Tel: +44 (0) 1223 883400

**Marketing Company**

Syngenta Ireland Ltd, Block 6, Cleaboy Business  
Park, Old Kilmeaden Road, Waterford, Ireland  
Tel: (051) 377203

L1148732 IREL/01E PPE 4248719 01/17

In case of toxic or transport emergency ring +44 (0)1484 538444 any time (24HR)

# 5 litres

Product names marked © or ™, the ALLIANCE FRAME  
the SYNGENTA Logo and the PURPOSE ICON  
are Trademarks of a Syngenta Group Company



**CONDITIONS OF USE**

FOR USE ONLY AS PROFESSIONAL FUNGICIDE

Crop	Maximum individual dose (litres/hectare/crop)	Maximum no. of treatments (per crop)	Latest time of application
Winter and spring wheat, rye and triticale.	0.75	1	Up to and including anthesis complete (GS 69).
Winter, spring barley and oats.	0.75	1	Up to and including complete ear emergence (GS 59).

**Other Specific Restrictions:**

- (1) This product must not be applied via hand-held equipment.
- (2) No more than two applications of products containing SDH inhibitors must be applied to any cereal crop.
- (3) Earliest time of application is GS31
- (4) Apply SDHI fungicides always in mixtures.

The mixture partner:

- should provide satisfactory disease control when used alone on the target disease
- must have a different mode of action

**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.**

**ADDITIONAL SAFETY INFORMATION****(a) Operator protection**

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate. WASH SPLASHES from skin immediately. WHEN USING DO NOT EAT, DRINK OR SMOKE. WASH HANDS AND EXPOSED SKIN before meals and after work.

**(b) Environmental protection**

To protect aquatic organisms respect an unsprayed buffer zone of 10m to surface waters.\* 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.

**(c) Storage and disposal**

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. KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place. EMPTY CONTAINER COMPLETELY and dispose of safely.

\* To reduce this buffer zone please refer to PRCD Guidance - STRIPE (Surface water Tool for Reducing the Impact of Pesticides in the Environment).

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**

Benzovindiflupyr is an orthosubstituted pyrazole carboxamide fungicide belonging to the sub-class of the benzonorbornenes.

Benzovindiflupyr is an SDH inhibitor (FRAC group #7 carboxamides). Benzovindiflupyr is predominantly protectant substance.

CERATAVO® PLUS should be used as a protectant treatment or in the earliest stages of disease development.

## **DISEASES CONTROLLED**

### **Winter and Spring Wheat**

Septoria Leaf Blotch (*Zymospetoria tritici*)

Glume blotch (*Septoria nodorum*)

Yellow rust (*Puccinia striiformis*)

Brown rust (*Puccinia recondita*)

### **Winter and Spring Barley**

Net blotch (*Pyrenophora teres*) [Moderate control]

Leaf blotch (*Rhynchosporium secalis*) [Reduction]

Brown rust (*Puccinia hordei*)

*Ramularia collo-cygni* [Moderate control]

### **Triticale**

Septoria Leaf Blotch (*Zymospetoria tritici*)

Glume blotch (*Septoria nodorum*)

Yellow rust (*Puccinia striiformis*)

Brown rust (*Puccinia recondita*)

Leaf blotch (*Rhynchosporium secalis*) [Reduction]

### **Rye**

Brown rust (*Puccinia recondita*)

Leaf blotch (*Rhynchosporium secalis*) [Reduction]

### **Oats**

Crown rust (*Puccinia coronata*) [Moderate control]

## **RESISTANCE MANAGEMENT**

CERATAVO PLUS must always be tank mixed with another fungicide(s) from different cross resistance group(s) /different mode(s) of action which when used alone, gives effective control of the same target disease(s). Products should be applied at robust rates. In any tank mix the SDHI should be applied in a balanced mixture.

CERATAVO PLUS should be used in accordance with the instructions for use for the target diseases at the specified growth stages indicated. Use CERATAVO PLUS 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. For further advice on resistance management contact your agronomist or specialist advisor, and visit the FRAG-UK website.

You must not apply more than two foliar applications of products containing SDH inhibitors to any cereal crop. Reduced application rates and split applications of SDHI products must not be used. Mixtures of two or more SDHI fungicides do not provide an anti-resistance strategy. Each application of such a mixture counts as one SDHI application. Users should refer to current FRAC guidelines for SDHI compounds.

Isolates of *Septoria* leaf blotch with reduced sensitivity to SDHI fungicides have been detected.

Disease control may be reduced if strains of pathogens less sensitive to CERATAVO PLUS develop.

## **CROP SPECIFIC INFORMATION**

### **Crops and growing conditions**

CERATAVO PLUS can be used on all varieties of winter and spring wheat, winter and spring barley, rye, triticale and oats. Apply CERATAVO PLUS under good growing conditions with adequate soil moisture. Avoid poor growing conditions which may give less reliable results.

### **Timing**

Always inspect crops to assess disease development immediately before spraying. Best results will be achieved from applications made as a protectant treatment or in the earliest stages of disease development following a disease risk assessment or the use of appropriate decision support systems.

### **Rates of use**

Apply CERATAVO PLUS at 0.75 litres per hectare.

## **FOLLOWING CROPS**

There are no restrictions on succeeding crops in a normal rotation.

## **MIXING AND SPRAYING**

### **Mixing Procedure**

Make sure the sprayer is set to give an even application at the correct volume. Fill the spray tank with half the required volume of water and begin agitation. Add the required amount of CERATAVO PLUS to the spray tank and allow to disperse before adding any other product. Add the rest of the water and continue to agitate the mixture thoroughly. Always agitate during spraying.

### **Spray Volume and Application**

Apply CERATAVO PLUS in a recommended 100 - 400 litres of water per hectare through conventional crop spraying equipment. The higher spray volumes are recommended where the crop is dense or disease pressure/risk is high to ensure good penetration to the lower leaves and stem bases. Disease control may be compromised by reducing water volumes, where good spray coverage is difficult to achieve. A spray pressure of 2-3 bars is recommended. Effectiveness using three star drift reduction technology may be reduced.

### **After Spraying**

Thoroughly wash out sprayer three times according to manufacturer's guidelines and dispose of washing and clean containers according to local water authority guidelines.

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



Alternatively, contact your supplier

**CONDITIONS OF USE**

FOR USE ONLY AS PROFESSIONAL FUNGICIDE

Crop	Maximum individual dose (litres/hectare/crop)	Maximum no. of treatments (per crop)	Latest time of application
Winter and spring wheat, rye and triticale.	0.75	1	Up to and including anthesis complete (GS 69).
Winter, spring barley and oats.	0.75	1	Up to and including complete ear emergence (GS 59).

**Other Specific Restrictions:**

- (1) This product must not be applied via hand-held equipment.
- (2) No more than two applications of products containing SDH inhibitors must be applied to any cereal crop.
- (3) Earliest time of application is GS31
- (4) Apply SDHI fungicides always in mixtures.

The mixture partner:

- should provide satisfactory disease control when used alone on the target disease
- must have a different mode of action

**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.**

**ADDITIONAL SAFETY INFORMATION****(a) Operator protection**

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate. WASH SPLASHES from skin immediately. WHEN USING DO NOT EAT, DRINK OR SMOKE. WASH HANDS AND EXPOSED SKIN before meals and after work.

**(b) Environmental protection**

To protect aquatic organisms respect an unsprayed buffer zone of 10m to surface waters.\* 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.

**(c) Storage and disposal**

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. KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place. EMPTY CONTAINER COMPLETELY and dispose of safely.

\* To reduce this buffer zone please refer to PRCD Guidance - STRIPE (Surface water Tool for Reducing the Impact of Pesticides in the Environment).