



# AVASTEL®



ADAMA



**FUNGICIDE**

**Emulsifiable concentrate**

**MAPP 21096**

**F**

THIS PRODUCT MUST BE SOLD AND USED ONLY IN ENGLAND, SCOTLAND AND WALES

### Ingredients

- Fluxapyroxad ..... 75 g/l (7.09 % w/w)
  - Prothioconazole ..... 150 g/l (14.33 % w/w)
- Also contains 1-Octyl-2-pyrrolidinone and Isotridecanol, ethoxylated.

### Crops

A broad-spectrum fungicide for use on wheat, barley, rye and triticale.

### Danger

**Causes skin irritation.**  
**Causes serious eye damage.**  
**May cause harm to breast-fed children.**  
**Toxic to aquatic life with long lasting effects.**  
 Keep out of reach of children.  
 Obtain special instructions before use.  
 Avoid contact during pregnancy and while nursing.  
 Do not eat, drink or smoke when using this product.  
 Wear protective gloves, protective clothing, eye protection & face protection.  
**IF ON SKIN:** Wash with plenty of soap and water.  
**IF IN EYES:** Rinse cautiously with water for several minutes.  
 Remove contact lenses, if present and easy to do. Continue rinsing.  
 Collect spillage.  
 Protect from sunlight.  
 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.  
**To avoid risks to human health and the environment, comply with the instructions for use.**



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### Scan for Safety Data Sheet

Or use the weblink : <https://bit.ly/3Y8kmKm>  
Alternatively, contact your supplier.



R3.0 Nov 24

This label is compliant with the Voluntary Initiative Guidance.

**NO VARNISH AREA**

**5Le**





**FUNGICIDE**

**Emulsifiable concentrate**

**MAPP 21096**



**GROUP 3 | 7 FUNGICIDE**



**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.

*However, engineering controls may replace personal protective equipment if a COSHH assessment shows that they provide an equal or higher standard of protection.*

**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.

**Storage and disposal**

**KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS. KEEP IN ORIGINAL CONTAINER** tightly closed in a safe place. **WASH OUT CONTAINER THOROUGHLY**, empty washings into spray tank and dispose of safely. **DO NOT RE-USE CONTAINER** for any purpose.

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

**For advice on medical emergencies, fires or major spills telephone the National Chemical Emergency Centre on 01865 407333.**

**IMPORTANT INFORMATION**

FOR USE ONLY AS A PROFESSIONAL FUNGICIDE

Crops	Maximum individual dose (L product/ha)	Maximum number of applications (per crop)	Latest time of application
Winter & spring wheat, rye & triticale	1.25	1	Up to the end of flowering (BBCH 69)
Winter & spring barley	1.25	1	Up to mid-flowering (BBCH 65)

**Other specific restriction:**

Do not apply 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.**

**IMPORTANT:** Note that goods treated under the terms of this Great Britain (GB) authorisation can be legally marketed in Northern Ireland if they are being moved under the Northern Ireland Retail Movement Scheme. All other treated goods can only be marketed in Northern Ireland if they are in accordance with the statutory EU Maximum Residue Level (MRL) set under Regulation No 396/2005. This may also apply to residues in animal products where treated crops are fed to livestock. Growers are advised to draw this to the attention of distributors and retailers so that EU MRL breaches and any associated enforcement against goods marketed in Northern Ireland are avoided.

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**SHAKE WELL BEFORE USE**

**PROTECT FROM FROST**

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## Danger

Causes skin irritation.

Causes serious eye damage.

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Obtain special instructions before use.

Avoid contact during pregnancy and while nursing.

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IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Collect spillage.

Protect from sunlight.

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.

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



**AVASTEL® (MAPP 21096)** is an emulsifiable concentrate formulation containing 75 g/l (7.09 % w/w) fluxapyroxad and 150 g/l (14.33 % w/w) prothioconazole. Also contains 1-Octyl-2-pyrrolidinone and Isotrilineanol, ethoxylated.

AVASTEL is a broad-spectrum fungicide for use on wheat, barley, rye and triticale.

**This leaflet is part of the approved label.**

## 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.*

AVASTEL is a fungicide recommended for the control of a wide range of fungal diseases on all varieties of winter and spring wheat, winter and spring barley, rye and triticale.

AVASTEL contains fluxapyroxad, a SDHI (Succinate dehydrogenase inhibitor); and prothioconazole, a triazolinthione which acts as a DeMethylation Inhibitor (DMI: SBI Class I).

AVASTEL has systemic activity, with protectant properties.

## RESTRICTIONS OR WARNINGS

Crops should not be re-entered until spray residues are dry.

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

## RESISTANCE MANAGEMENT

AVASTEL is a co-formulated product, containing fluxapyroxad which belongs to FRAC Group 7 SDHI (Succinate dehydrogenase inhibitors) and prothioconazole FRAC Group 3 (DMI-fungicides (DeMethylation Inhibitors)).

AVASTEL should be used in accordance with the instructions for use for the target diseases at the specific growth stages indicated.

Use AVASTEL 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.

Non-chemical measures such as resistant crop varieties, plant hygiene, and good agricultural practice should be

taken into consideration to reduce the infection pressure of the target pathogens.

AVASTEL should be used preventively and should not be relied on for its curative potential.

There is a risk of widespread resistance occurring on *Zymoseptoria tritici* in the UK. Failure to follow resistance management action may result in reduced levels of disease control.

There is a significant risk of widespread resistance occurring on *Ramularia collo-cygni* populations to a number of different modes of action. Repeated use of products containing the same mode of action are unlikely to provide effective control of this disease. For further information on the resistance status of *Ramularia* contact your agronomist or specialist advisor and visit the FRAG-UK website.

You must not apply more than two foliar applications of products containing complex II: succinate-dehydro-genase inhibitors (SDHI's) to any cereal crop.

AVASTEL contains a DMI fungicide. Resistance to some DMI fungicides has been identified in *Septoria* leaf spot (*Zymoseptoria tritici*) which may seriously affect the performance of some products. For further advice on resistance management in DMI's contact your agronomist or specialist advisor and visit the FRAG-UK website. Failure to follow resistance management action may result in reduced levels of disease control.

## **DISEASES CONTROLLED**

### **Wheat**

Leaf spot (*Zymoseptoria tritici*)

Brown rust (*Puccinia triticina*)

Yellow rust (*Puccinia striiformis*)

Tan spot (*Pyrenophora tritici - repentis*), moderate control

Powdery mildew (*Blumeria graminis*)

Ear complex diseases - Fusarium (*Fusarium spp.*) and Head blight (*Microdochium spp.*), moderate control

### **Barley**

Leaf blotch (*Rhynchosporium secalis*)

Net blotch (*Pyrenophora teres*)

Brown rust (*Puccinia hordei*)

Powdery mildew (*Blumeria graminis*)

Ramularia leaf spot (*Ramularia collo-cygni*)

### **Rye**

Brown rust (*Puccinia recondita*),

Leaf blotch (*Rhynchosporium secalis*)

### **Triticale**

Leaf spot (*Zymoseptoria tritici*)

Brown rust (*Puccinia recondita*)

Yellow rust (*Puccinia striiformis*)

Tan spot (*Pyrenophora tritici - repentis*)

Powdery mildew (*Blumeria graminis*)

## CROP SPECIFIC INFORMATION

### Time of application

A maximum of one application of AVASTEL can be applied to any crop.

For best results apply AVASTEL as a protectant treatment, before the disease appears and when disease forecasts indicate the onset of disease is imminent.

### Cereals (foliar diseases)

Apply AVASTEL from BBCH 30 (beginning of stem elongation) up to and including BBCH 69 (up to the end of flowering) on wheat, rye and triticale and up to and including BBCH 65 (up to mid-flowering) on barley.

A second application of an alternative product may be needed where AVASTEL has been used at the earlier timing to control diseases. AVASTEL can be used later in the spray program after an earlier application of an alternative product.

### Wheat (ear diseases)

Apply AVASTEL soon after ear emergence until the end of flowering (BBCH 59-69) for moderate control of *Fusarium* ear blight. Control of ear diseases can result in cleaner, brighter ears. Through the reduction of ear blight AVASTEL effectively reduces the level of the *Fusarium* mycotoxin deoxynivalenol (DON) in wheat grain. However, where *Fusarium* levels are high, the reduction achieved may not always be sufficient to ensure that DON levels fall below the statutory limit.

### **RATE OF USE**

For all crops apply AVASTEL at 1.25 L/ha in a water volume of 125-400 L/ha.

Apply as a medium spray as defined by BCPC.

### **MIXING AND SPRAYING**

Ensure the sprayer is clean and in good working order. Calibrate according to the sprayer manufacturer's recommendations.

Half-fill the spray tank with clean water and begin agitation. Shake the container and add the required amount of AVASTEL to the sprayer using a filling device (e.g. induction bowl or closed transfer unit) or by direct addition to the sprayer tank. Add the rest of the water and continue to agitate the mixture thoroughly. Always agitate during spraying.

On emptying the container, 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 container safely. Add the remainder of the water whilst continuing to agitate the mixture until spraying is complete.

Do not leave the sprayer standing with the spray mixture overnight.

After spraying, wash out sprayer thoroughly and dispose of washings and clean containers according to DEFRA Code of Practice and local authority guidelines.

### **Spraying**

Ensure that the sprayer boom is adjusted in height so that the spray pattern gives good, even cover.

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## COMPANY ADVISORY INFORMATION

*This section is not part of the Product Label under the Plant Protection Products Regulations and provides additional advice on product use at the discretion of ADAMA Agricultural Solutions UK Ltd.*

### DISCLAIMER/CONDITIONS OF SUPPLY

The specified properties of our products and the mode of application stated on this label have been established on the basis of research and experience. Products conform to specification at the time of delivery but, as we exercise no control over their subsequent storage, handling, mixing or use or the weather conditions before, during and after application, all of which may affect the performance of the products, no responsibility or liability will be accepted by us or our re-sellers for any failure in performance, damage or injury to person or property whatsoever arising from the storage, handling, application or use of the products. These conditions cannot be varied by our staff or agents whether or not they supervise or assist in or make recommendations concerning the use of such products. We recommend you contact your dealer to request advice on the suitability of this product for any new and/or unusual growing methods or for new varieties not listed on this label.

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