

# Dualitas

An aqueous suspension concentrate containing 200g/l Tebuconazole and 100g/l trifloxystrobin.

MAPP 18000

Dualitas is a contact and systemic fungicide for the control of:

Fusarium Patch (*Microdochium nivale*)  
Red Thread (*Laetisaria fuciformis*)  
Anthracnose (*Colletotrichum cereale*)  
Dollar Spot (*Sclerotinia homoeocarpa*)  
Leafspot (*Drechslera spp.*)  
Rust (*Puccinia spp.*)

...in amenity turf, at any time of the year.

250ml e



agrovista  
amenity



**WARNING**

Suspected of damaging the unborn child.  
Very toxic to aquatic life with long lasting effects.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF exposed or concerned: Call a POISON CENTER or doctor/physician.

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.

Contains trifloxystrobin, 1,2-benzisothiazolin-3-one and 5-chloro-2-methylisothiazol-3-one/2-methylisothiazol-3-one. May produce an allergic reaction.

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

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

## 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.

## IMPORTANT INFORMATION FOR USE ONLY AS A PROFESSIONAL HORTICULTURAL FUNGICIDE.

For Use on Amenity Grassland and managed Amenity turf.

Maximum individual dose: 1l/ha

Maximum number of treatments: 4 per year

### Other Specific restriction:

A minimum of 28 days must be observed between applications.

**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.**

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## Authorisation holder:

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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 AND SUITABLE PROTECTIVE GLOVES** when handling the concentrate, applying by hand-held equipment 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.

DO NOT BREATHE SPRAY.  
WHEN USING DO NOT EAT, DRINK OR SMOKE.

WASH ANY CONTAMINATION from eyes immediately.

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

WASH HANDS AND EXPOSED SKIN before meals and after work.

### Environmental Protection

Do not contaminate water with the product or its container (Do not clean out application equipment near surface water. Avoid contamination via drains from farmyards and roads).

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. Aim spray away from water.

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 CRD published guidance or the statutory buffer zone must

be maintained. The results of the LERAP must be recorded and kept available for three years.



### Storage and Disposal

KEEP OUT OF REACH OF CHILDREN.

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.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.

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## General Information

Dualitas may be applied year round to managed amenity turf sites including: Golf courses, Sports turf (football and rugby pitches, tennis, bowls and cricket pitches), Ornamental turf (parks, institutional, commercial and residential lawns, municipal grounds, cemeteries).

Dualitas is a broad spectrum triazole and strobilurin fungicide exhibiting both contact and systemic mode of action. It is recommended for control or reduction of a range of diseases on managed amenity turf. The product displays both protective and some curative activity.

## Restrictions

Do not apply during drought conditions or to frozen turf.

If grass is being mown, Dualitas should be applied after cutting and further mowing should not take place until AT LEAST 48 hours after treatment.

## Application

For control of Fusarium Patch, Red Thread and Dollar Spot, use 1 litre of Dualitas in 400-500 litres of water per hectare of turf.

Control of Leaf Spot and a reduction of Rust and Anthracnose may also be achieved. Dualitas can be applied using knapsack sprayers or vehicle mounted hydraulic sprayers.

Application Equipment			
Vehicle-mounted Hydraulic Sprayer		Knapsack Sprayer	
Rate per ha	Water per ha	Rate per 100m <sup>2</sup>	Water per 100m <sup>2</sup>
1l	400-500l	10ml	4-5l
		Rate per 500m <sup>2</sup>	Water per 500m <sup>2</sup>
		50ml	20-25l

### **Application Timing**

Dualitas should be used preventatively or as early as possible in the disease cycle, applying at the first sign of disease.

Dualitas can be used when grass is either dormant or actively growing and can be applied year round.

If grass is being mown, Dualitas should be applied after cutting. Further mowing should not take place until AT LEAST 48 hours after treatment. This is to allow adequate movement of the systemic active ingredients throughout the plant.

Allow at least 28 days between applications of Dualitas.

Alternate with a fungicide having a different mode of action.

### **Resistance Management**

Dualitas contains trifloxystrobin which belongs to the QoI class of chemistry and also contains Tebuconazole, which belongs to the Dimethylation class of chemistry. The combination of two active ingredients from separate classes of fungicide with different modes of action together in one product should reduce the chance of resistance appearing,

however the possible development of diseases resistant to Dualitas cannot be excluded or predicted.

Certain fungal pathogens are known to develop resistance to QoI products when used repeatedly.

The use of Dualitas should conform to resistance management strategies. Such strategies may include rotating with products containing active substances with different modes of action, or limiting the total number of applications per season.

ProKlass recommends responsible product stewardship to ensure effective long term control of the fungal diseases on this label.

Do not apply more than two sequential applications of Dualitas or any product containing a QoI fungicide.

Alternate with a fungicide having a different mode of action.

Do not apply more than two applications per year of any product containing a QoI fungicide.

For further advice on resistance management in turf contact your agronomist or specialist advisor and visit the FRAC-UK website: [www.frac.info](http://www.frac.info)

## Mixing

Sprayers should be THOROUGHLY CLEANED before use and filters and jets checked for damage and blockages.

Thoroughly shake the pack before use.

Half fill the sprayer tank with clean water and agitate.

Add the required amount of Dualitas.

Mix thoroughly and make up to the required volume of water while still agitating. Spray immediately after mixing. Continue agitation at all times during spraying and stoppages, until the tank is completely empty.

Wash out all spray equipment thoroughly with water immediately after use.

## Conditions Of Supply

Our products are high grade and we believe them suitable for use as directed, but as we cannot control their mixing, use or weather conditions during and after application, no condition or warranty is made as to their quality or fitness and no responsibility will be accepted for damage or injury arising either directly from their storage, handling or use. No liability shall be accepted for any loss or damage caused due to any person failing to use the product in accordance with the instructions for use.

**SAFETY DATA SHEET: A safety data sheet is available on request.**