



TWIST®

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GROUP 11 FUNGICIDE

A strobilurin fungicide for the control of foliar diseases in sugar beet and red beet.

MAPP 20958

A suspension concentrate formulation containing 500 g/L (45.09% w/w) trifloxystrobin.

This product must be sold and used only in England, Scotland and Wales

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

Bayer CropScience Limited,
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Milton Road
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For 24 hour emergency information contact Bayer CropScience Limited
Telephone: 00800 1020 3333



TWIST

UFI: EUA0-X0R2-700C-5WGH
Contains 500 g/L (45.09% w/w) trifloxystrobin.



Warning

May cause harm to breast-fed children.

Very toxic to aquatic life with long lasting effects.

Wear protective gloves.

If skin irritation or rash occurs: Get medical advice/attention.

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.

Contains Trifloxystrobin and 1,2-benzisothiazolin-3-one, reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1). May produce an allergic reaction.

IMPORTANT INFORMATION FOR USE ONLY AS A PROFESSIONAL FUNGICIDE

Crops	Maximum individual dose (litres product/ha)	Maximum Number of applications	Latest time of application	Aquatic Buffer zone distance (metres)
Sugar beet	0.25	2 per crop with a 21 day spray interval	21 days before harvest	12
Red beet	0.25	One per crop	21 days before harvest	12

Other specific restrictions: There must be at least a 21 day interval between treatments in sugar beet.

When used on crops with a greater than 5 m aquatic buffer zone, this product must not be applied via hand-held equipment.

Buffer zones greater than 5 m are NOT eligible for buffer zone reduction under the LERAP scheme.

Low drift spraying equipment must be operated according to the specific conditions stated in the official three star rating for that equipment as published on HSE Chemicals Regulation Division's website. These operating conditions must be maintained until the operator is 30 m from the top of the bank of any surface water bodies.

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.

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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SAFETY PRECAUTIONS

Operator Protection

WASH ALL PROTECTIVE CLOTHING AFTER USE

DO NOT BREATHE SPRAY

WASH SPLASHES from skin or eyes immediately.

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

DO NOT REMOVE BOLTING BEET/WEED BEET for 3 days after treatment.

Consumer Protection

DO NOT HARVEST CROPS FOR HUMAN OR ANIMAL CONSUMPTION FOR AT LEAST 21 DAYS AFTER THE LAST APPLICATION

Environmental Protection

DO NOT CONTAMINATE SURFACE WATERS OR DITCHES with chemical or used container.

TSPe3: 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 12 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 CROP 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.

To protect aquatic organisms, respect an unsprayed buffer zone to surface water bodies as specified for the crop. HORIZONTAL BOOM SPRAYERS MUST BE FITTED WITH THREE STAR DRIFT REDUCTION TECHNOLOGY. Low drift spraying equipment must be operated according to the specific conditions stated in the official three star rating for that equipment as published on HSE Chemicals Regulation Directorate's website. Maintain three star operating conditions until 30 m from the top of the bank of any surface water bodies.

DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within the distance specified for the crop to 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. NOTE: BUFFER ZONES OF MORE THAN 5 M CANNOT BE REDUCED UNDER THE LOCAL ENVIRONMENT RISK ASSESSMENT FOR PESTICIDES (LERAP) SCHEME.

The statutory buffer zone must be maintained and the distance recorded in Section A of the LERAP record form. The LERAP record form must be kept available for three years.

When used on crops with a greater than 5 m aquatic buffer zone, this product must not be applied via hand-held equipment.

Storage and Disposal

Keep out of reach of children.

Keep away from food, drink and animal feeding stuffs.

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.

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.

Avoid spraying within 5 m of the field boundary to reduce effects on non-target insects or other arthropods.

RESTRICTIONS

An interval of at least 21 days must elapse between the last application of Twist and harvesting sugar beet.

PROTECT FROM FROST

STORE IN A COOL DRY PLACE

DISEASES CONTROLLED

When applied as recommended Twist controls the following diseases:

Sugar beet and red beet

Rust (moderate control)

Twist may be used on all commercial varieties sugar beet and red beet.

Apply Twist in a minimum of 200 L water/ha. Use a **MEDIUM** spray quality (as defined by BCPC). A spray pressure of 2-3 bar is recommended. On sugar beet apply a maximum of 2 applications of Twist per crop per year, on red beet apply a maximum of one application per year.

RESISTANCE

Where QoI fungicides are used targeting other sugar beet diseases (e.g. rust, powdery mildew, *Rhizoctonia*, *Ramularia* and *Stemphylium*) then the potential impact of applications on the resistance management of *Cercospora beticola* should be considered.

To avoid build-up of resistance do not apply this or any other product containing QoI fungicides more than two times per crop per year.

Twist contains trifloxystrobin, a member of the QoI cross-resistance group. Twist should be used preventatively and not relied on for its curative potential. Use Twist 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. You should not make more than two applications of QoI (FRAC Code Group 11) containing products to a beet crop.

Twist must always be used in mixture with another product, containing an active ingredient from a different cross resistance group, that is recommended for control of the same target disease applied at a rate that will give robust control. Where strains of fungi resistant to QoI's occur, Twist is likely to be ineffective and should not be used.

Limiting the number of sprays is an important factor in delaying the build-up of resistant pathogen populations. Failure to follow resistance management action may result in reduced levels of disease control. Appropriate disease risk assessment or decision support systems must be used when deciding whether to treat with Twist.

The possible development of resistance to Twist cannot be predicted. Should it occur Twist may not give satisfactory control.

MIXING AND SPRAYING

Effectiveness using three star drift reduction technology may be reduced.

Thoroughly shake the pack before use. Add half the volume of clean water to the spray tank. Turn on the agitation and add the recommended quantity of Twist. Continue agitation at all times, including topping up the spray tank and during spraying and any stoppages until the spray tank is empty. Wash out all spray equipment thoroughly with water immediately after use. Sprayers should be thoroughly cleaned before use, and filters and jets checked for damage and blockages. Boom height should be adjusted to ensure even coverage of the crop, particularly at later growth stages. The correct height is one at which the spray from alternate nozzles meets just above the crop. In dense crops, at later growth stages, higher water volumes should be used. 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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To access the **Safety Data Sheet** for this product scan the code or use the link below:

<https://cropscience.bayer.co.uk/our-products/fungicides/twist>
or alternatively contact your supplier



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