

**TRIFLOXYSTROBIN WG 50 W****U-EU**

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Version 2 / EU  
102000007798Revision Date: 31.08.2010  
Print Date: 15.03.2012**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product information**

Trade name	TRIFLOXYSTROBIN WG 50 W	U-EU
Product code (UVP)	05584493	
Usage	Fungicide	
Company	Bayer CropScience AG Alfred-Nobel-Straße 50 40789 Monheim am Rhein Germany	
Telefax	+49(0)2173-38-7394	
Responsible Department	Product Safety and Specification Mgmt +49(0)2173-38-3409/3189 (during business hours only) Email: MSDS@bayercropscience.com	
Emergency telephone nr.	+1 (760) 476-3964 (Company 3E for Bayer CropScience)	

**2. HAZARDS IDENTIFICATION****Risk advice to man and the environment**

May cause sensitization by skin contact.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Chemical nature**

Water dispersible granules (WG)

Trifloxystrobin 50 % w/w

**Hazardous components**

Chemical Name	CAS-No. / EC-No.	Symbol(s)	R-phrase(s)	Concentration [%]
Trifloxystrobin	141517-21-7	Xi, N	R43, R50/53	50,00
Dibutyl naphthalenesulfonic acid, sodium salt	25417-20-3 246-960-6	Xn	R20/22, R36/38, R52/53	> 1,00 - < 25,00
Diatomaceous earth	61790-53-2			> 1,00

For the full text of the R-phrases/ Hazard statements mentioned in this Section, see Section 16.

**4. FIRST AID MEASURES****General advice**

Move out of dangerous area. Remove contaminated clothing immediately and dispose of safely. Place and transport victim in stable position (lying sideways).



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### Inhalation

Move to fresh air. Keep patient warm and at rest.

### Skin contact

Wash off immediately with soap and plenty of water. Get medical attention if irritation develops and persists.

### Eye contact

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if irritation develops and persists.

### Ingestion

Do NOT induce vomiting. Rinse mouth. Call a physician or poison control center immediately.

### Notes to physician

#### Treatment

Systemic treatment:

Initial treatment: symptomatic.

In the event of a mouthful or more being ingested, the following measures should be considered:

In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable.

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## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray

Carbon dioxide (CO<sub>2</sub>)

Foam

Sand

### Specific hazards during fire fighting

In the event of fire the following may be released:

Hydrogen cyanide (hydrocyanic acid)

Hydrogen fluoride

Carbon monoxide (CO)

nitrogen oxides (NO<sub>x</sub>)

### Special protective equipment for fire-fighters

In the event of fire and/or explosion do not breathe fumes.

In the event of fire, wear self-contained breathing apparatus.

### Further information

Contain the spread of the fire-fighting media.

Do not allow run-off from fire fighting to enter drains or water courses.

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## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Avoid contact with spilled product or contaminated surfaces.

Use personal protective equipment.

### Environmental precautions

Do not allow to get into surface water, drains and ground water.

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Keep in suitable, closed containers for disposal.  
Clean contaminated floors and objects thoroughly, observing environmental regulations.  
Sweep up or vacuum up spillage and collect in suitable container for disposal.

**Additional advice**

Information regarding personal protective equipment, see section 8.  
Information regarding waste disposal, see section 13.

**7. HANDLING AND STORAGE****Handling**

Advice on safe handling

Use only in area provided with appropriate exhaust ventilation.

Advice on protection against fire and explosion

Keep away from heat and sources of ignition.

**Storage**

Requirements for storage areas and containers

Store in a place accessible by authorized persons only.  
Store in original container.

Keep containers tightly closed in a dry, cool and well-ventilated place.

Advice on common storage

Keep away from food, drink and animal feedingstuffs.

Temperature tolerance	min.	max.
	-20 °C	40 °C

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Components	CAS-No.	Control parameters	Update	Basis
Trifloxystrobin	141517-21-7	2,7 mg/m <sup>3</sup> (TWA)		OES BCS*

\*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

**Personal protective equipment**

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

**Respiratory protection**      Wear respirator with a particle filter mask (protection factor 4) conforming to European norm EN149FFP1 or equivalent. Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.

**Hand protection**              Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness 0,40 mm). Wash when contaminated. Dispose of when contaminated inside, when perforated or when contamination

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	outside cannot be removed. Wash hands always before eating, drinking, smoking or using the toilet.
Eye protection	Wear goggles conforming to EN166 (Field of Use 5 or equivalent).
Skin and body protection	Wear standard coverall and type 3 suit. Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.
Hygiene measures	Avoid contact with skin, eyes and clothing. Keep working clothes separately. Wash hands immediately after work, if necessary take a shower. Remove soiled clothing immediately and clean thoroughly before using again. Garments that cannot be cleaned must be destroyed (burnt).

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**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

Form	water-dispersible granules
Colour	light brown
Odour	weak, characteristic

**Safety data**

pH	8,5 - 10,5 at 1 % (23 °C)
Water solubility	dispersible
Impact Sensitivity	not impact-sensitive

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**10. STABILITY AND REACTIVITY**

Hazardous reactions	No hazardous reactions when stored and handled according to prescribed instructions. Stable under recommended storage conditions.
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**11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity	LD50 (rat) > 2.000 mg/kg Test conducted with a similar formulation.
Acute dermal toxicity	LD50 (rat) > 2.000 mg/kg Test conducted with a similar formulation.
Skin irritation	Slight irritant effect - does not require labelling. (rabbit) Test conducted with a similar formulation.
Eye irritation	Slight irritant effect - does not require labelling. (rabbit) Test conducted with a similar formulation.

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Sensitisation	Sensitising (guinea pig) OECD Test Guideline 406, Magnusson & Kligman test Test conducted with a similar formulation.
Sensitisation	Non-sensitizing. (guinea pig) OECD Test Guideline 406, Buehler test Test conducted with a similar formulation.

**12. ECOLOGICAL INFORMATION****Ecotoxicity effects**

Toxicity to fish	LC50 (Rainbow trout ( <i>Oncorhynchus mykiss</i> )) 0,036 mg/l Exposure time: 96 h
Toxicity to aquatic invertebrates	EC50 (Water flea ( <i>Daphnia magna</i> )) 0,01 mg/l Exposure time: 48 h
Toxicity to aquatic plants	EC50 ( <i>Pseudokirchneriella subcapitata</i> ) 0,15 mg/l Growth rate; Exposure time: 72 h

**13. DISPOSAL CONSIDERATIONS****Product**

In accordance with current regulations and, if necessary, after consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant.

**Waste key for the unused product**

020108 agrochemical waste containing dangerous substances

**14. TRANSPORT INFORMATION****ADR/RID/ADNR**

UN-Number	<b>3077</b>
Labels	9
Packaging group	III
Hazard no.	90
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TRIFLOXYSTROBIN)
Tunnel Code	E

This classification is in principle not valid for carriage by tank vessel on inland waterways.  
Please refer to the manufacturer for further information.

**IMDG**

UN-Number	<b>3077</b>
Labels	9
Packaging group	III
EmS	F-A , S-F
Marine pollutant	Marine Pollutant

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Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TRIFLOXYSTROBIN)
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**IATA**

UN-Number	<b>3077</b>
Labels	9
Packaging group	III
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TRIFLOXYSTROBIN )

**15. REGULATORY INFORMATION****Labelling in accordance with the EC Directive on dangerous preparations 1999/45/EC as amended.**

## Classification:

Labelling according to EC Directives

## Hazardous components which must be listed on the label:

- Trifloxystrobin

## Symbol(s)

Xi	Irritant
N	Dangerous for the environment

## R-phrases(s)

R43	May cause sensitization by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## S-phrases(s)

S24	Avoid contact with skin.
S35	This material and its container must be disposed of in a safe way.
S37	Wear suitable gloves.
S57	Use appropriate container to avoid environmental contamination.

## Exceptional labelling

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

## Further information

WHO-classification: III (Slightly hazardous)

**16. OTHER INFORMATION****Further information**

## Text of R-phrases mentioned in Section 3

R20/22	Harmful by inhalation and if swallowed.
R36/38	Irritating to eyes and skin.
R43	May cause sensitization by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



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The information given in this Data Sheet has been included in accordance with the guidelines established by Regulation (EC) 1907/2006. This data sheet complements the user's instructions, but does not replace them. The information it contains is based on the knowledge available about the product concerned at the time it was compiled. Users are further reminded of the possible risks of using a product for purposes other than those for which it was intended. The required information complies with current EEC legislation. Addressees are requested to observe any additional national requirements.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.