

**TEBUCONAZOLE EW 250C G****U-WW**

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Version 1 / EU
102000007162Revision Date: 24.02.2011
Print Date: 01.03.2011**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product information**

Trade name	TEBUCONAZOLE EW 250C G	U-WW
Product code (UVP)	04407040	
Usage	Fungicide	
Company	Bayer CropScience AG Alfred-Nobel-Straße 50 40789 Monheim am Rhein Germany	
Telefax	+49(0)2173-38-7394	
Responsible Department	Material and Transport Safety Management +49(0)2173-38-3409/3189 (during business hours only) Email: MSDS@bayercropscience.com	
Emergency telephone nr.	+49(0)2133-51-4233 (Sicherheitszentrale Dormagen, Bayer AG)	

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

Harmful by inhalation and if swallowed.

Risk of serious damage to eyes.

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

Possible risk of harm to the unborn child.

3. COMPOSITION/INFORMATION ON INGREDIENTS**Chemical nature**Emulsion, oil in water (EW)
Tebuconazole 250 g/l**Hazardous components**

Chemical Name	CAS-No. / EC-No.	Symbol(s)	R-phrase(s)	Concentration [%]
Tebuconazole	107534-96-3 4036402	Xn, N	R22, R51/53, R63	25,90
N,N-Dimethyl decanamide	14433-76-2 238-405-1	Xi	R36/38	> 25,00

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



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Inhalation

Move to fresh air. Keep patient warm and at rest. Call a physician or poison control center immediately.

Skin contact

Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water. If symptoms persist, call a physician.

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.

Ingestion

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

Notes to physician

Treatment

Treat symptomatically.
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.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water spray
Carbon dioxide (CO₂)
Foam
Sand

Specific hazards during fire fighting

In the event of fire the following may be released:
Hydrogen chloride (HCl)
Hydrogen cyanide (hydrocyanic acid)
Carbon monoxide (CO)
nitrogen oxides (NO_x)

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.

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.

Methods for cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder,

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sawdust).

Clean contaminated floors and objects thoroughly, observing environmental regulations.

Keep in suitable, closed containers for disposal.

Additional advice

Information regarding safe handling, see section 7.

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.

Storage

Requirements for storage areas and containers

Store in original container.

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

Store in a place accessible by authorized persons only.

Advice on common storage

Keep away from food, drink and animal feedingstuffs.

Temperature tolerance	min.	max.
	-10 °C	40 °C

Suitable materials

HDPE (high density polyethylene)

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

Components	CAS-No.	Control parameters	Update	Basis
Tebuconazole	107534-96-3	0,2 mg/m ³ (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	No personal respiratory protective equipment normally required. 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.
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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 outside cannot be removed. Wash hands always before eating,
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	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 6 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. If chemical protection suit is splashed, sprayed or significantly contaminated, decontaminate as far as possible, then carefully remove and dispose of as advised by manufacturer.
Hygiene measures	Avoid contact with skin, eyes and clothing. Keep working clothes separately. Wash hands before breaks and immediately after handling the product. Remove soiled clothing immediately and clean thoroughly before using again. Garments that cannot be cleaned must be destroyed (burnt).

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form	liquid, transparent to opaque
Colour	yellowish
Odour	aromatic

Safety data

pH	5,0 - 8,0 at 1 % (23 °C)
Flash point	> 172 °C
Ignition temperature	345 °C
Density	ca. 0,97 g/cm ³ at 20 °C
Water solubility	emulsifiable
Viscosity, kinematic	ca. 34,1 mm ² /s at 20 °C
Surface tension	28,6 mN/m at 20 °C
Explosivity	Not explosive 92/69/EEC, A.14 / OECD 113

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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Acute oral toxicity	LD50 (rat) > 200 - < 2.000 mg/kg
Acute inhalation toxicity	LC50 (rat) ca. 5 mg/l Exposure time: 4 h Determined in the form of a respirable aerosol.
Acute dermal toxicity	LD50 (rat) > 4.000 mg/kg
Skin irritation	No skin irritation (rabbit)
Eye irritation	Severe eye irritation. (rabbit)
Sensitisation	Non-sensitizing. (guinea pig) OECD Test Guideline 406, Buehler test
Sensitisation	Non-sensitizing. (guinea pig) OECD Test Guideline 406, Magnusson & Kligman test

12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Toxicity to fish	LC50 (Rainbow trout (<i>Oncorhynchus mykiss</i>)) 9,28 mg/l Exposure time: 96 h
Toxicity to aquatic invertebrates	EC50 (Water flea (<i>Daphnia magna</i>)) 7,3 mg/l Exposure time: 48 h
Toxicity to aquatic plants	EC50 (<i>Pseudokirchneriella subcapitata</i>) 3,51 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/ADN**

UN-Number	3082
Labels	9
Packaging group	III
Hazard no.	90
Environm. Hazardous Mark	YES

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Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TEBUCONAZOLE SOLUTION)
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	3082
Labels	9
Packaging group	III
EmS	F-A , S-F
Marine pollutant	YES
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TEBUCONAZOLE SOLUTION)

IATA

UN-Number	3082
Labels	9
Packaging group	III
Environm. Hazardous Mark	YES
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TEBUCONAZOLE SOLUTION)

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

Classified as hazardous for supply/use.

Hazardous components which must be listed on the label:

- Tebuconazole
- N,N-Dimethyldecan amide

Symbol(s)

Xn	Harmful
N	Dangerous for the environment

R-phrases(s)

R20/22	Harmful by inhalation and if swallowed.
R41	Risk of serious damage to eyes.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R63	Possible risk of harm to the unborn child.

S-phrases(s)

S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S35	This material and its container must be disposed of in a safe way.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S57	Use appropriate container to avoid environmental contamination.



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Exceptional labelling

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

Further information

WHO-classification: II (Moderately hazardous)

16. OTHER INFORMATION

Further information

Text of R-phrases mentioned in Section 3

R22	Harmful if swallowed.
R36/38	Irritating to eyes and skin.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R63	Possible risk of harm to the unborn child.

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.