

**BAYFIDAN 250 EC**Version 3 / EU  
1020000069291/6  
Revision Date: 05.10.2010  
Print Date: 18.11.2010**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product information**

Trade name	BAYFIDAN 250 EC
Product code (UVP)	04902750
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**

- || May cause harm to the unborn child.
- || Irritating to respiratory system.
- || Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Chemical nature**Emulsifiable concentrate (EC)  
Triadimenol 250 g/l**Hazardous components**

Chemical Name	CAS-No. / EC-No.	Symbol(s)	R-phrase(s)	Concentration [%]
Triadimenol	55219-65-3 259-537-6	Xn	R22, R52/53	23,00
N-Methyl-2-pyrrolidone	872-50-4 212-828-1	T	R61, R36/37/38	> 25,00
Alkylarylpolyglycol ether	104376-75-2		R52/53	> 1,00 - < 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. 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. 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. Get medical attention if irritation develops and persists.

### Ingestion

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

### Notes to physician

#### Treatment

Treat symptomatically.  
Gastric lavage is not normally required. However, if a significant amount (more than a mouthful) has been ingested, administer activated charcoal and sodium sulphate.

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## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

|| Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Extinguishing media which should not be used for safety reasons

|| High volume water jet

### 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 (NOx)

### Special protective equipment for fire-fighters

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.  
|| Remove all sources of ignition.

### Environmental precautions

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

### Methods for cleaning up

Clean contaminated floors and objects thoroughly, observing environmental regulations.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder,

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sawdust).  
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.

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.
	-10 °C	40 °C

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

Components	CAS-No.	Control parameters	Update	Basis
Triadimenol	55219-65-3	1,61 mg/m <sup>3</sup> (TWA)		OES BCS*
N-Methyl-2-pyrrolidone	872-50-4	19 ppm (TWA)		OES BCS*
N-Methyl-2-pyrrolidone	872-50-4	40 mg/m <sup>3</sup> / 10 ppm (TWA)	12 2009	EU ELV
N-Methyl-2-pyrrolidone	872-50-4	80 mg/m <sup>3</sup> / 20 ppm (STEL)	12 2009	EU ELV

\*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 an organic vapours and gas filter mask (protection factor 10) conforming to EN140 type A or equivalent.
- Hand protection              Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness 0,40 mm). Wash when contaminated. Dispose of when

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contaminated inside, when perforated or when contamination 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 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.  
Remove soiled clothing immediately and clean thoroughly before using again.  
Garments that cannot be cleaned must be destroyed (burnt).  
Wash hands before breaks and immediately after handling the product.

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

Form	liquid, clear
Colour	light brown
Odour	aromatic

**Safety data**

pH	6,0 - 8,0 at 1 % (23 °C)
Flash point	93 °C
Density	ca. 1,09 g/cm <sup>3</sup> at 20 °C
Water solubility	emulsifiable

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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.
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Acute inhalation toxicity	LC50 (rat) > 0,412 mg/l Determined in the form of a respirable aerosol. Highest attainable concentration. Test conducted with a similar formulation.
Acute dermal toxicity	LD50 (rat) > 5.000 mg/kg Test conducted with a similar formulation.
Skin irritation	No skin irritation (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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**12. ECOLOGICAL INFORMATION****Ecotoxicity effects**

Toxicity to fish	LC50 (Rainbow trout ( <i>Oncorhynchus mykiss</i> )) 42 mg/l Exposure time: 96 h
Toxicity to aquatic invertebrates	EC50 (Water flea ( <i>Daphnia magna</i> )) 253 mg/l Exposure time: 48 h
Toxicity to aquatic plants	EC50 ( <i>Pseudokirchneriella subcapitata</i> ) 41,13 mg/l Growth rate; Exposure time: 72 h

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**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.

**Contaminated packaging**

|| Not completely emptied packagings should be disposed of as hazardous waste.

**Waste key for the unused product**

020108 agrochemical waste containing dangerous substances

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**14. TRANSPORT INFORMATION**

According to national and international transport regulations not classified as dangerous goods.

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

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**15. REGULATORY INFORMATION**

|| Labelling in accordance with the EC Directive on dangerous preparations 1999/45/EC as amended.

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|| Classified as hazardous for supply/use.

Hazardous components which must be listed on the label:

- Triadimenol
- N-Methyl-2-pyrrolidone

Symbol(s)

|||T Toxic

R-phrase(s)

|||R61 May cause harm to the unborn child.  
 |||R37 Irritating to respiratory system.  
 |||R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s)

|||S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
 |||S53 Avoid exposure - obtain special instructions before use.  
 |||S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.

Exceptional labelling

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

Further information

WHO-classification: III (Slightly hazardous)

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## 16. OTHER INFORMATION

### Further information

Text of R-phrases mentioned in Section 3

R22 Harmful if swallowed.  
 R36/37/38 Irritating to eyes, respiratory system and skin.  
 R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
 R61 May cause 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.