

**SOLIGOR® EC 425**Version 1 / EU  
102000011388**UKRAINE**

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Revision Date: 04.08.2006  
Print Date: 03.11.2008**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product information**

Trade name SOLIGOR® EC 425  
Product code (UVP) 79007353  
Usage fungicide  
Company Bayer CropScience AG  
Alfred-Nobel-Straße 50  
40789 Monheim  
Germany

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Telefax +49(0)2173-38-7394  
Responsible Department Material and Transport Safety Management  
+49(0)2173-38-3409/4566

Emergency telephone number +49(0)2133-51-4233 (Sicherheitszentrale Dormagen, Bayer AG)

**2. COMPOSITION/INFORMATION ON INGREDIENTS****Chemical nature**Emulsifiable concentrate (EC)  
Prothioconazole 100 g/l, Spiroxamine 250 g/l, Tebuconazole 100 g/l**Hazardous components**

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrases(s)	Concentration [%]
Prothioconazole	178928-70-6	N	R51/53	5,58
Tebuconazole	107534-96-3	Xn, N	R22, R51/53, R63	15,90
Spiroxamine	118134-30-8	Xn, N	R20/21/22, R38, R43, R50/53	24,06

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

Harmful by inhalation.  
Irritating to eyes and skin.  
May cause sensitization by skin contact.  
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Possible risk of harm to the unborn child.

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

Remove contaminated clothing immediately and dispose of safely. Move out of dangerous area.  
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 water and soap, if available with polyethyleneglycol 400, subsequently rinse with water.

**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. 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**

water spray  
carbon dioxide (CO<sub>2</sub>)  
foam  
sand

**Specific hazards during fire fighting**

In the event of fire the following can be released:  
nitrous gases (NO<sub>x</sub>)  
hydrogen cyanide (hydrocyanic acid)  
carbon monoxide (CO)  
sulphur dioxide (SO<sub>2</sub>)

**Special protective equipment for fire-fighters**

In the event of fire and/or explosion do not breathe fumes.  
Use 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.  
Wear personal protective equipment. Unprotected persons must be kept away.  
Keep away sources of ignition.

**Environmental Precautions**

Do not discharge into the drains/surface water/groundwater.



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**Methods for Cleaning Up**

Take up with absorbent material (e.g. sand, diatomaceous earth or a proprietary absorbent material).  
Clean contaminated floors and objects thoroughly, observing environmental regulations.  
Keep in suitable, closed containers for disposal.

**Additional Advice**

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

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**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

Keep container tightly closed in a dry 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.

Storage stability

Storage temperature < 50 °C

Suitable materials

Coextruded containers with an internal barrier layer made of ethylene vinyl alcohol copolymer (EVOH)

Coextruded containers with an internal barrier layer made of polyamide (PA).

\*\* Containers of 20 l and above: HDPE (high density polyethylene). \*\*

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Personal protective equipment**

Respiratory Protection

If product is handled while not enclosed, and if contact may occur:

Full mask

Multi-range filter ABEK/P2

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, drinking, smoking or using the toilet.

Eye protection

Safety glasses with side-shields

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Avoid contact with skin, eyes and clothing.

Keep working clothes separately.

Wash hands before breaks and at the end of workday.

Wash hands immediately after work, if necessary take a shower.

Remove soiled and/or soaked clothing immediately and clean thoroughly before using again.

Garments that cannot be cleaned must be destroyed (burnt).

**Protective measures**If product is handled while not enclosed, and if contact may occur:  
complete suit protecting against chemicals**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**Form liquid, clear  
Colour tan**Safety data**Flash point > 100 °C  
92/69/EEC, A.9 / EPA OPPTS 830.6315

Ignition temperature 360 °C

Density ca. 1,00 g/cm<sup>3</sup> at 20 °C

Water solubility dispersible

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.

**11. TOXICOLOGICAL INFORMATION**

Acute Oral Toxicity LD50 (rat) 2.500 mg/kg

Acute Inhalation Toxicity LC50 (rat) 2,806 mg/l  
Exposure time: 4 h

Acute Dermal Toxicity LD50 (rat) &gt; 2.000 mg/kg

Skin Irritation Irritating to skin. (rabbit)

Eye Irritation Irritating to eyes. (rabbit)

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Sensitization	sensitizing (guinea pig) OECD Test Guideline 406, Magnusson & Kligman test
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**12. ECOLOGICAL INFORMATION****Ecotoxicity effects**

Toxicity to Fish	LC50 (Rainbow trout ( <i>Oncorhynchus mykiss</i> )) 6,54 mg/l Exposure time: 96 h
Toxicity to daphnia	EC50 (Water flea ( <i>Daphnia magna</i> )) 7,1 mg/l Exposure time: 48 h
Toxicity to algae	EC50 ( <i>Desmodesmus subspicatus</i> ) 0,531 mg/l Growth rate Exposure time: 72 h

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

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

**Waste key for the unused product**

020108 agrochemical waste containing dangerous substances

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

UN-No	<b>3082</b>
Labels	9
Packaging group	III
Hazard no.	90
Description of the goods	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SPIROXAMINE SOLUTION)

**IMDG**

UN-No	<b>3082</b>
Class	9
Packaging group	III
EmS	F-A , S-F
Marine pollutant	Marine pollutant
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SPIROXAMINE SOLUTION )

**IATA**

UN-No	<b>3082</b>
Class	9
Packaging group	III
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

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(SPIROXAMINE SOLUTION )

**15. REGULATORY INFORMATION****Classification and 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:

- Prothioconazole
- Tebuconazole
- Spiroxamine

## Symbol(s)

Xn	Harmful
N	Dangerous for the environment

## R-phrases(s)

R20	Harmful by inhalation.
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.
R63	Possible risk of harm to the unborn child.

## S-phrases(s)

S24	Avoid contact with skin.
S35	This material and its container must be disposed of in a safe way.
S36/37	Wear suitable protective clothing and 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 2:

R20	Harmful by inhalation.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R22	Harmful if swallowed.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R43	May cause sensitization by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	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.
R63	Possible risk of harm to the unborn child.



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For further information on active ingredients see also: Wirkstoffe in Pflanzenschutz- und Schädlingsbekämpfungsmitteln: physikalisch-chemische und toxikologische Daten IVA, Industrieverb. Agrar e.V. - 3., neubearb. Aufl. - München; Wien; Zürich; BLV Verl.-Ges.mbH, 2000 ISBN 3-405-15809-5

The information given in this Data Sheet has been included in accordance with the guidelines established by EC Directive 1991/155/EC as amended. 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.