

**PROLINE**Version 1 / GB  
102000008022

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Revision Date: 12.05.2006

Print Date: 14.07.2008

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product information**

Trade name	PROLINE
Product code (UVP)	05863929
Usage	fungicide
Company	Bayer CropScience Limited 230 Cambridge Science Park Milton Road Cambridge Cambridgeshire CB4 0WB Great Britain
Telephone	+44(0)1223 226500
Telefax	+44(0)1223 426240
Emergency telephone number	0800-220876 (UK 24 hr) +44(0)1603-242424 (Overseas 24 hr)

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

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrases(s)	Concentration [%]
Prothioconazole	178928-70-6	N	R51/53	25.00
Fatty acid dimethylamide		Xi	R38, R41	55.00

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

Irritating to eyes.

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

**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.

**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.



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### 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

carbon monoxide (CO)  
sulphur dioxide (SO<sub>2</sub>)  
nitrogen oxides (NO<sub>x</sub>)  
hydrogen chloride (HCl)  
hydrogen cyanide (hydrocyanic acid)

### 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.

### Environmental Precautions

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

If spillage enters drains leading to sewage works inform local water company immediately.

If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060).

### 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.

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**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.

**Storage**

Advice on common storage

Keep away from food, drink and animal feedingstuffs.

Storage stability

Storage temperature &gt; -10 - &lt; 40 °C

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Refer to COSHH assessment (Control of Substances Hazardous to Health (Amendment) Regulations 2004). Engineering controls should be used in preference to personal protective equipment wherever practicable. Refer also to COSHH Essentials.

**Personal protective equipment**

Respiratory Protection

Wear respirator conforming to EN140 type A filter.  
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 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.

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## Hygiene measures

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).

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

Form	liquid, clear to slightly turbid
Colour	tan
Odour	aromatic

**Safety data**

pH	5 - 6 at 1 % (20 °C) emulsion in water
Flash Point	152 °C
Ignition temperature	340 °C
Density	ca. 1.0 g/cm <sup>3</sup> at 20 °C
Surface tension	29.9 mN/m at 20 °C
Explosivity	Not explosive

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**10. STABILITY AND REACTIVITY**

Conditions to Avoid	Extremes of temperature and direct sunlight.
Materials to avoid	None.
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) > 2,500 mg/kg
Acute Inhalation Toxicity	LC50 (rat) > 5 mg/l Exposure time: 4 h
Acute Dermal Toxicity	LD50 (rat) > 4,000 mg/kg
Skin Irritation	Non-irritant. (rabbit)

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Eye Irritation	irritating (rabbit)
Sensitization	Non-sensitizing. (guinea pig) OECD Test Guideline 406

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

Toxicity to Fish	LC50 (Rainbow trout ( <i>Oncorhynchus mykiss</i> )) 4.02 mg/l Exposure time: 96 h
Toxicity to daphnia	EC50 (Water flea ( <i>Daphnia magna</i> )) 2.9 mg/l Exposure time: 48 h
Toxicity to algae	EC50 ( <i>Pseudokirchneriella subcapitata</i> ) 12.7 mg/l 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.

Advice may be obtained from the local waste regulation authority (part of the Environment Agency in the UK).

**Contaminated packaging**

Small containers (< 10 l or < 10 kg) should be rinsed thoroughly using an integrated pressure rinsing device, or, by manually rinsing three times.

Add washings to sprayer at time of filling.

Dispose of empty and cleaned packaging safely.

Large containers (> 25 l or > 25 kg) should not be rinsed or re-used for any other purpose.

Return large containers to supplier.

Follow advice on product label and/or leaflet.

**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. (PROTHIOCONAZOLE SOLUTION)

**IMDG**

UN-No	<b>3082</b>
Class	9

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

**IATA**

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

**UK 'Carriage' Regulations**

UN-No	<b>3082</b>
Labels	9
Packaging group	III
Hazard no.	90
Emergency action code	3Z
Description of the goods	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PROTHIOCONAZOLE SOLUTION)

**15. REGULATORY INFORMATION**

This product has been classified in accordance with The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002: CHIP 3 and any subsequent amendments.

## Classification:

Labelling according to EC Directives

Hazardous components which must be listed on the label:

- Prothioconazole
- Fatty acid dimethylamide

## Symbol(s)

Xi	Irritant
N	Dangerous for the environment

## R-phrase(s)

R36	Irritating to eyes.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## S-phrase(s)

S35	This material and its container must be disposed of in a safe way.
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**



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### Further information

Text of R phrases mentioned in Section 2:

R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The above information is intended to give general health and safety guidance on the storage and transport of the product.

It is not intended to apply to the use of the product for which purposes the product label and any appropriate technical usage literature available should be consulted and any relevant licenses, consents or approvals complied with.

The requirements or recommendations of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product should take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given.

The information provided in this safety data sheet is accurate at the date of publication and will be updated as and when appropriate.

No liability will be accepted for any injury, loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.

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.