

**PROSARO EC250 4X5L BOT IE**Version 2 / IRL  
1020000079081/7  
Revision Date: 20.08.2007  
Print Date: 07.03.2008**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product information**

Trade name PROSARO EC250 4X5L BOT IE  
Product code (UVP) 05676428  
Usage Fungicide  
Company Bayer CropScience Ltd  
Bayer Ltd  
The Atrium, Blackthorn Road  
Sandyford  
Dublin 18  
Ireland

Telephone +353-1-2999313  
Responsible Department Email: ukinfo@bayercropscience.com

Emergency telephone number 1800-409-399

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

Irritating to skin.  
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**

Emulsifiable concentrate (EC)  
Prothioconazole 125 g/l, Tebuconazole 125 /g/l

**Hazardous components**

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrase(s)	Concentration [%]
Prothioconazole	178928-70-6	N	R51/53	12.70
Tebuconazole	107534-96-3	Xn, N	R22, R51/53, R63	12.70
N,N-Dimethyldecan amide	14433-76-2 238-405-1	Xn	R22, R38, R41	> 10.00

For the full text of the R phrases 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 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

hydrogen chloride (HCl)  
nitrogen oxides (NO<sub>x</sub>)  
Hydrogen cyanide (hydrocyanic acid)  
carbon monoxide (CO)  
Sulphur oxides

### 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.  
If the product contaminates rivers, lakes or drains inform respective authorities.

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

Requirements for storage areas and containers

Store in a place accessible by authorized persons only.  
Keep containers tightly closed in a dry, cool and well-ventilated place.  
Store in original container.

Advice on common storage

Keep away from food, drink and animal feedingstuffs.

Storage stability

Storage temperature -10 - 40 °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**

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. 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

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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.

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

Form	liquid, clear to slightly turbid
Colour	tan
Odour	aromatic

**Safety data**

pH	5 - 7
Flash point	> 148 °C
Density	approx. 0.98 g/cm <sup>3</sup> at 20 °C
Water solubility	emulsifiable
Viscosity, dynamic	49.9 mPa.s at 20 °C
Surface tension	approx. 29.1 mN/m at 20 °C

**10. STABILITY AND REACTIVITY**

Conditions to Avoid	Extremes of temperature and direct sunlight.
Hazardous Reactions	No hazardous reactions when stored and handled according to prescribed instructions. Stable under recommended storage conditions.

**11. TOXICOLOGICAL INFORMATION**

Acute Oral Toxicity	LD50 (rat) > 2,500 mg/kg
Acute Inhalation Toxicity	LC50 (rat) > 5.153 mg/l Exposure time: 4 h
Acute Dermal Toxicity	LD50 (rat) > 4,000 mg/kg

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Skin Irritation	Irritating to skin. (rabbit)
Eye Irritation	No eye irritation. (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> )) 3.94 mg/l Exposure time: 96 h
Toxicity to daphnia	EC50 (Water flea ( <i>Daphnia magna</i> )) 8.8 mg/l Exposure time: 48 h
Toxicity to algae	EC50 ( <i>Pseudokirchneriella subcapitata</i> ) 9.5 mg/l Growth rate Exposure time: 72 h

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

It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow container label instructions and applicable local guidelines.

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

**IMDG**

UN-Number	<b>3082</b>
Labels	9
Packaging group	III

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

**IATA**

UN-Number	<b>3082</b>
Labels	9
Packaging group	III
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TEBUCONAZOLE, PROTHIOCONAZOLE 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
- N,N-Dimethyldecan amide

Symbol(s)

Xn	Harmful
N	Dangerous for the environment

R-phrases(s)

R38	Irritating to 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.

S-phrases(s)

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.

**The classification/labelling information below is that which has been approved under 'The European Communities (Authorization, placing on the market, use and control of Plant Protection products) Regulations 2003' and any subsequent amendments and may differ from that indicated by any toxicological and/or other testing otherwise indicated in this 'Safety Data Sheet'.**

Symbol(s)

Xn	Harmful
N	Dangerous for the environment

R-phrases(s)

R38	Irritating to 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.

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## S-phrase(s)

S 2	Keep out of the reach of children.
S13	Keep away from food, drink and animal feedingstuffs.
S35	This material and its container must be disposed of in a safe way.
S36/37	Wear suitable protective clothing and gloves.
S46	If swallowed, seek medical advice immediately and show this container or label.
S57	Use appropriate container to avoid environmental contamination.
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)

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

Text of R phrases mentioned in Section 3:

R22	Harmful if swallowed.
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.
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.