

**SILVACUR 5L**Version 1 / GB
102000007257

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Revision Date: 20.07.2004
Print Date: 20.07.2004**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING****Product information**

Trade name SILVACUR 5L
Product code (UVP) 04815262, 04862953, 05600375
Usage fungicide
Company Bayer CropScience Limited
Hauxton
Cambridge
Cambridgeshire CB2 5HU
Great Britain

Telephone +44(0)1223 870312
Telefax +44(0)1223 872142
Emergency telephone number 0800-220876 (UK only)
+44(0)1223-870312

2. COMPOSITION/INFORMATION ON INGREDIENTS**Chemical nature**

Emulsifiable concentrate (EC)
Tebuconazole 250 g/l, Triadimenol 125 g/l

Hazardous components

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrases(s)	Concentration [%]
Tebuconazole	107534-96-3	Xn, N	R22, R51/53	24.20
Triadimenol	55219-65-3 259-537-6	Xn	R22, R52/53	12.10
N,N-Dimethyldecan amide	14433-76-2 238-405-1	Xn	R22, R38, R41	35.00
N-Methyl-2-pyrrolidone	872-50-4 212-828-1	Xi	R36/38	6.70

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

Harmful by inhalation.
Irritating to eyes.
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES**General advice**

Move out of dangerous area. If the patient is likely to become unconscious, place and transport in stable sideways position. Remove contaminated, soaked clothing immediately and dispose of safely. Also heed the risks to your own person.



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Inhalation

Move the patient to fresh air and keep at rest. Call a physician immediately.

Skin contact

Wash off immediately with soap and plenty of water. Call a physician immediately.

Eye contact

In case of contact with eyes rinse thoroughly with water. Call a physician immediately.

Ingestion

Do not induce vomiting. Wash out mouth with water. Call a physician immediately.

Notes to physician

Treatment

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

water spray
carbon dioxide (CO₂)
foam
sand

Specific hazards during fire fighting

nitrogen oxides (NO_x)
hydrogen cyanide (hydrocyanic acid)
hydrogen chloride (HCl)
carbon monoxide (CO)

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.

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

Keep people and animals away.
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, earth or a proprietary absorbent material).
Clean contaminated floors and objects thoroughly, observing environmental regulations
Pack spilled material in suitable containers for recovery or disposal.

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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

Advice on common storage

Keep away from food, drink and animal feedingstuffs.

Storage stability

Storage temperature > -10 - 40 °C

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Refer to COSHH assessment (Control of substances Hazardous to Health Regulations 1999 as amended). Engineering controls should be used in preference to personal protective equipment wherever practicable.

Components with workplace control parameters

Components	CAS-No.	Control parameters	Update	Basis
N-Methyl-2-pyrrolidone	872-50-4	103 mg/m ³ (TWA)	2003	EH40 OES
N-Methyl-2-pyrrolidone	872-50-4	309 mg/m ³ (STEL)	2003	EH40 OES

Personal protective equipment

Respiratory protection	If product is handled while not enclosed, and if skin contact may occur: Full mask Multi-range filter ABEK/P2
Hand protection	solvent-resistant gloves
Eye protection	Safety glasses with side-shields
Skin and body protection	Light protective clothing, PVC PVC boots

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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.
- Remove soiled 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 skin contact may occur:
complete suit protecting against chemicals

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form	liquid, clear
Colour	tan
Odour	aromatic

Safety data

pH	6.0
Flash point	> 130 °C
Ignition temperature	345 °C
Density	ca. 1.04 g/ml at 20 °C
Surface tension	34.5 mN/m at 20 °C
Explosivity	Not explosive

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.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	LD50 (rat) 2,443 mg/kg
Acute inhalation toxicity	LC50 (rat) 4.815 mg/l Exposure time: 4 h
Acute dermal toxicity	LD50 (rat) > 5,000 mg/kg

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Skin irritation	non-irritant (rabbit)
Eye irritation	irritating (rabbit)
Sensitization	Non-sensitizing (guinea pig) OECD 406, Buehler test
Sensitization	Non-sensitizing (guinea pig) OECD Test Guideline 406, Magnusson & Kligman test

12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Toxicity to fish	LC50 (Golden orfe (<i>Leuciscus idus</i>)) 14.2 mg/l Exposure time: 96 h
Toxicity to daphnia	EC50 (Water flea (<i>Daphnia magna</i>)) 18 mg/l Exposure time: 48 h
Toxicity to algae	EC50 (<i>Desmodesmus subspicatus</i>) 18.2 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
Can be landfilled or incinerated, when in compliance with local regulations.
Advice may be obtained from the local waste regulation authority (part of the Environment Agency in the UK).

Contaminated packaging

Packaging that cannot be cleaned should be disposed of as product waste.
Empty containers can be landfilled after cleaning, when in compliance with the Environmental Protection (Duty of Care) Regulations 1991.

Waste key for the unused product

020108 agrochemical waste containing dangerous substances

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

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

IMDG

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UN-No	3082
Class	9
Packaging group	III
Marine pollutant	Marine pollutant
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TEBUCONAZOLE, TRIADIMENOL SOLUTION)

IATA

UN-No	3082
Class	9
Packaging group	III
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TEBUCONAZOLE, TRIADIMENOL SOLUTION)

UK 'Carriage' Regulations

UN-No	3082
Class	9
Packaging group	III
Hazard identification number	90
Emergency action code	3Z
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TEBUCONAZOLE, TRIADIMENOL SOLUTION)

Classification according to 'The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2004' and any subsequent amendments.

15. REGULATORY INFORMATION

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

Hazardous components which must be listed on the label:

- Tebuconazole
- Triadimenol
- N,N-dimethyl decanamide

Symbol(s)

Xn Harmful

R-phrase(s)

R20 Harmful by inhalation.

R36 Irritating to eyes.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Exceptional labelling

Restricted to professional users.

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:

R22	Harmful if swallowed.
R36/38	Irritating to eyes and skin.
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.
R52/53	Harmful 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.

Changes since the last version will be highlighted in the margin. This version replaces all previous versions.