

Safety Data Sheet

917803/02

Date of issue: May 16, 2003

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Revised: May 16, 2003

1. Identification of the substance/preparation and the company

Cabaret

Application:
fungicide

Bayer CropScience Limited
Hauxton, Cambridge, CB2 5HU. Tel 01223 870312 Fax 01223 872142

In case of emergency: 0800 220876

*2. Composition/information on ingredients

preparation contains

cyproconazole

240 g/l

CAS No.: 94361-06-5

Index No.: --

hazard symbols: Xn, N

EINECS No.: --

R-phrases: 22-50/53-63

nonylphenol, ethoxylated

weight % 10

CAS No.: 9016-45-9

Index No.: --

hazard symbol: Xn

EINECS No.: --

R-phrases: 22-41-53

N-methyl-2-pyrrolidone

weight % 23

CAS No.: 872-50-4

Index No.: 606-021-00-7

hazard symbol: Xi

EEC No.: 212-828-1

R-phrases: 36/38

aromatic hydrocarbons

weight %: approx. 35

CAS No.: 64742-94-5

Index No.: --

hazard symbols: Xn, N

EINECS No.: 265-198-5

R-phrases: 51/53-65-66

*3. Hazards identification

Irritating to eyes and skin.

Possible risk of harm to the unborn child.

Harmful: may cause lung damage if swallowed.

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

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***4. First-aid measures**

GENERAL INFORMATION:

Remove patients from the danger zone. If there is a risk of unconsciousness, position and transport in stable lateral position. Remove soiled or soaked clothing immediately.

FOLLOWING SKIN CONTACT:

Wash skin immediately with copious amounts of water and soap. Then seek medical advice.

FOLLOWING EYE CONTACT:

Rinse eyes thoroughly with water. Consult an eye specialist.

UPON SWALLOWING:

Do not induce vomiting. Call emergency doctor immediately.

INFORMATION FOR THE PHYSICIAN:

See Chapter 11 for information on toxicology.

The active ingredient listed in Chapter 2 belongs to the following chemical group: triazol-compound.

Therapeutic measures: Basic aid, decontamination, symptomatic treatment.

5. Fire-fighting measures

Extinguishing media: sprayed water jet, foam, extinguishing powder, CO₂, sand

Fight fire in early stages if safe to do so.

Wear respiratory protection.

Well ventilated areas: full face mask with combination filter, e.g. ABEK-P2 (offers no protection from carbon monoxide!)

Enclosed premises: respirator with independent air supply.

Contain firefighting water.

In the event of fire, the formation of hydrogen chloride, hydrogen cyanide, carbon monoxide and nitrogen oxides must be anticipated.

6. Accidental release measures

Use the personal protective equipment listed in Chapter 8. Prevent entry into drains, waters or soil. Take up spilled product with absorbent material (e.g. sawdust, peat, chemical binder). Fill materials taken up into closable container. To clean the floor and all objects contaminated by this material, use damp cloth. Also place used cleaning materials into closable receptacles.

***7. Handling and storage**

INFORMATION ON SAFE HANDLING:

Suitable container materials: COEX containers with inner barrier layer made of E/VAL or PA.

When using open containers, use local exhaust ventilation to prevent vapours from spreading. Make provision for product and fire-fighting water to be retained.

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***7. Handling and storage** (Continuation)

INFORMATION ON STORAGE:

See Chapter 15 for storage regulations.

To maintain quality, store in a dry place and protect from temperatures below 0 and above 40 °C. Store so that unauthorised persons do not have access. Keep away from food, drink and animal feeding stuffs.

8. Exposure controls/Personal protection

For technical protective measures to limit exposure see also Chapter 7 "Handling and storage".

Workplace-related thresholds are listed in Chapter 15 "Regulations".

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

Respiratory protection: full mask with filter ABEK-P2

Hand protection: protective gloves for chemicals

Occupational health:

Keep the place of work clean. Avoid contact with product. Keep working clothes separate. Change badly soiled or soaked clothing. Wash hands before breaks and at end of work.

***9. Physical and chemical properties**

tested in accordance with

Form: liquid, clear to slightly turbid

Colour: brown

Odour: aromatic

pH value: 6-8 at 1 % in water

Density: 1,06 g/cm³ at 20 °C

Solubility in water: emulsifiable

Flash point: > 98 °C

DIN 51758

Surface tension: 36,9 mN/m at 20 °C

EEC A 5

(90 % aqueous emulsion)

10. Stability and reactivity***11. Toxicological information**

Acute toxicity:

LD₅₀ oral, rat: > 2000 mg/kg OECD 401

LD₅₀ dermal, rat: > 4000 mg/kg OECD 402

LC₅₀ inhalation, rat: > 4,512 mg/l, aerosol, 4 h of exposure
(highest technical producible concentration).

OECD 403

Irritation of the skin/rabbit: irritant*

Irritant to the mucous membranes/rabbit: irritant OECD 405

skin sensitisation: In the guinea-pig tests the product has no skin sensitising effect. (Magnusson-Kligman-test)

OECD 406

Animal tests for reproduction toxicity by dosing female rats with the active ingredient cyproconazole showed teratogenic effects.

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***11. Toxicological information** (Continuation)

* Test results of a similar product

The formulation described in this data sheet was classified by the conventional method. (R63, R65)

***12. Ecological information**

Fish toxicity:

LC₅₀: 18,5 mg/l (96 h); carp (Cyprinus carpio) OECD 203LC₅₀: 17,2 mg/l (96 h); trout (oncorhynchus mykiss) OECD 203

Toxicity for Daphnia:

EC₅₀: 38,4 mg/l (48 h); Water flea (Daphnia magna) OECD 202

Toxicity for algae:

Growth rate

EC₅₀: 0,366 mg/l (72 h); Green algae (Desmodesmus subspicatus) OECD 201

biomass

EC₅₀: 0,156 mg/l (72 h); Green algae (Desmodesmus subspicatus) OECD 201

Crop protection chemicals must be strictly prevented from reaching water-courses.

13. Disposal considerations

In cases where larger amounts of the product have become unusable, it should be established whether material utilisation is possible (if necessary, consult the manufacturer/suppliers). Small amounts of the product and uncleaned empty packaging should be packaged and sealed, labelled and transferred to a suitable incinerator in accordance with the local regulations.

European Waste Catalogue (EWC) code: 070499, 020105

***14. Transport information**

GGVSee/IMDG Code: 9 UN No.: 3082 EmS: NO

PG: III MPO: P

GGVSE: Class 9 PG: III RID/ADR: Class 9 PG: III

Warning sign: Hazard no. 90 Substance no. 3082

ADNR: Class 9 PG: III Cat -- ICAO/IATA-DGR: 9 3082 III

Limited quantity regulations applicable in accordance with chapter 3.4 RID/ADR in compliance with threshold value

Declaration for land shipment: 3082, UMWELTGEFAEHRDENDER STOFF, FLUESSIG, N.A.G.

(CYPROCONAZOL)

Declaration for sea shipment: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(SOLVENT NAPHTHA)

Declaration for shipment by air: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LI-

(to be continued)

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***14. Transport information** (Continuation)

QUID, N.O.S.
(SOLVENT NAPHTHA)

Other information:

Environmentally hazardous substance (GGVSE, RID/ADR). Marine pollutants.
Irritating to the eyes. Keep separated from foodstuffs.

***15. Regulatory information**

Labelling in accordance with directive CHIP3.

Symbols: Xn hazard descriptions: harmful
N dangerous for the environment

Contains: 240 g/l cyproconazole
N-methyl-2-pyrrolidone
aromatic hydrocarbons

R 36/38: Irritating to eyes and skin.

R 63: Possible risk of harm to the unborn child.

R 65: Harmful: may cause lung damage if swallowed.

R 50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S 35: This material and its container must be disposed of in a safe way.

S 36/37: Wear suitable protective clothing and gloves.

S 57: Use appropriate container to avoid environmental contamination.

S 62: If swallowed, do not induce vomiting : seek medical advice immediately and show this container or label.

N-methyl-2-pyrrolidone:

Risk of cutaneous absorption.

Peak concentration limit according to Category: 4

Pregnancy group: C

aromatic hydrocarbons:

Peak concentration limit according to Category: 4

(to be continued)

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***15. Regulatory information** (Continuation)

***16. Other information**

emulsifiable concentrate

Text of all R phrases referred to in sections 2 and 3:

- R 22: Harmful if swallowed.
- R 36/38: Irritating to eyes and skin.
- R 41: Risk of serious damage to eyes.
- R 50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R 63: Possible risk of harm to the unborn child.
- R 65: Harmful: may cause lung damage if swallowed.
- R 66: Repeated exposure may cause skin dryness or cracking

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.