

SAFETY DATA SHEET



Publication date: January 2003 Sheet number: BES/SA 0008 Revised on: 25 June 2010 Revision number: 4

1) IDENTIFICATION OF THE SUBSTANCE / PREPARATION

Commercial name: **BAYSOL® READY-TO-USE**

Usage: Insecticide

Company identification: Bayer (Pty.) Ltd.
Reg. No. 1968/011192/07
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SOUTH AFRICA

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Responsible department: Marketing and Technical
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In case of poisoning emergencies:
Bayer (office hours only): +27 11 921 5310/5663/5471/5639
Tygerberg Poison Centre: +27 21 931 6129
Griffon Poison Information Centre: +27 82 446 8946

2) HAZARD IDENTIFICATION OF THE PRODUCT

Risk advice to man and the environment: Toxic to aquatic organism, may cause long-term adverse effects in the aquatic environment.

3) COMPOSITION / INFORMATION ON THE INGREDIENTS

Chemical nature: Any other liquids (AL)
Cyfluthrin 0,05 g/l

Hazardous components

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrase(s)	Concentration [%]
Cyfluthrin	68359-37-5 269-855-7	T+, N	R23, R28, R50/53	0,005

For 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.

Skin contact: Wash off thoroughly with plenty of water and soap, if available with polyethyleneglycol 400, subsequently rinse with water. After skin contact: Apply Vitamin E cream or a simple body milk.

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.

Ingestion: Rinse mouth. Do NOT induce vomiting. Call a physician or poison control center immediately.

Notes to physician: Treatment: Elementary aid, decontamination and symptomatic treatment.

5) FIRE FIGHTING MEASURES

Suitable extinguishing media: Water spray, carbon dioxide (CO₂), foam, sand.

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.
Use personal protective equipment.

Environmental precautions: Do not allow to get into surface water, drains and ground water.

SAFETY DATA SHEET



Methods for cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).
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.

7) HANDLING AND STORAGE

Handling: Advice on safe handling: No special precautions required.

Storage: Requirements for storage areas and containers.
Store in original container.
Keep container tightly closed in a dry and well-ventilated place.
Keep out of reach of children, uninformed persons and animals.

Advice on common storage: Keep away from food, drink and animal feedingstuffs.

Storage stability: Storage temperature > 0 °C

Suitable materials: Only use original container.

8) EXPOSURE CONTROLS AND PERSONAL PROTECTION

Personal protection during application:

Hand protection: Avoid contact with skin, wear gloves.

Eye protection: None.

Hygiene measures: Avoid contact with skin, eyes and clothing.
Avoid excessive inhalation.
Wash with water after accidental skin contact and after use.

In all other cases the following recommendations would apply:

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).

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).

9) PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid

Colour: Clear

Odour: Weak characteristic

Boiling point: > 100 °C

Density: approx. 1,0 g/cm³ at 20 °C

Solubility in water: Miscible

pH value: 4,0-5,0 at 100 %

Flash point: > 100 °C (no flash point – determination conducted up to the boiling point)

10) STABILITY AND REACTIVITY

Hazardous reactions: No hazardous reactions when stored and handled according to prescribed instructions.

11) TOXICOLOGICAL INFORMATION

Acute toxicity:

SAFETY DATA SHEET



LD₅₀ oral, rat: > 5.000 mg/kg
LD₅₀ dermal, rat: LD₅₀ (rat): > 5.000 mg/kg
The values mentioned relates to the active ingredient.

Skin irritation: Non-irritant (rabbit)
The value mentioned relates to the active ingredient.

Eye irritation: Non-irritant (rabbit)
The value mentioned relates to the active ingredient.

Sensitization: Non-sensitizing (guinea pig)
OECD 406, Buehler test.

12) ECOLOGICAL INFORMATION

Fish toxicity: (active ingredient)
LC₅₀: 3,2 ug/l (96 h); Golden orfe (*Leuciscus idus*) (Bayer)
LC₅₀: 0,68 ug/l (96 h); Rainbow trout (*Oncorhynchus mykiss*) (Bayer)
LC₅₀: 1,5 ug/l (96 h); (*Lepomis macrochirus*) (Bayer)

Toxicity for Daphnia: (active ingredient)
EC₅₀: 0,16 ug/l (48 h); Water flea (*Daphnia magna*) (Bayer)

Toxicity for algae: (active ingredient)
Growth rate: IC₅₀: > 10 mg/l; Green algae (*Scenedesmus subspicatus*) (Bayer)
No acute toxicity was observed at its limit of water solubility.

13) DISPOSAL CONSIDERATIONS

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

14) TRANSPORT INFORMATION

UN Number: 3082

Class: 9

IMDG: -

Ems: F-A, S-F

MFAG: -

Subsidiary risk: •

Packing group: III

Declaration for land shipment: 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CYFLUTHRIN SOLUTION)

Declaration for sea shipment: 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CYFLUTHRIN SOLUTION)

Declaration for shipment by air: 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CYFLUTHRIN SOLUTION)

Marine pollutant,

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: Cyfluthrin.

Symbol(s):
N: Dangerous for the environment.

R-phrase(s):
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.

SAFETY DATA SHEET



S57: Use appropriate container to avoid environmental contamination.

Exceptional labelling: To avoid risks to man and the environment, comply with the instructions for use.

WHO Classification: III (slightly hazardous)

South-African classification: II (moderately hazardous)

16) OTHER INFORMATION

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.

Consult the label for directions for use.

THIS INFORMATION CONCERNS ONLY THE PRODUCT AS CONFORMING TO ITS SPECIFICATIONS AND LIMITED TO THE USES HEREIN STATED.

This sheet complements the technical sheet of use but does not replace it. The information contained on this sheet is based on knowledge of the product on the date of publication. It is given in good faith.
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