

SAFETY DATA SHEET



Publication date: January 2001 Sheet number: BES/SA 0014 Revised on: 25 June 2010 Revision number: 5

1) IDENTIFICATION OF THE SUBSTANCE / PREPARATION

Commercial name: **BAYTHROID® LIQUID**

Usage: Insecticide

Company identification: Bayer (Pty.) Ltd.
Reg. No. 1968/011192/07
P.O. Box 143, Isando 1600
SOUTH AFRICA

Telephone: +27 11 365 8600
+27 11 921 5911

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Responsible department: Marketing and Technical
+27 11 921 5310/5663/5471/5639
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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: Flammable.
Harmful: May cause lung damage if swallowed.
Irritating to eyes and skin.
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3) COMPOSITION / INFORMATION ON THE INGREDIENTS

Chemical nature: Emulsifiable concentrate (EC)
Cyfluthrin 12,5 g/l

Hazardous components:

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrases(s)	Concentration [%]
Cyfluthrin	68359-37-5 269-855-7	T+, N	R23, R28, R50/53	1,60
Xylene	1330-20-7 215-535-7	Xn	R10, R20/21, R38	3,0

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 sideways position (lying sideways). Remove contaminated clothing immediately and dispose of safely.

Skin contact: Wash off immediately with soap and plenty of water. After skin contact: Apply Vitamin E cream or simple body milk. If symptoms persist, call a physician.

Eye contact: In case of contact with eyes rinse immediately with plenty of water. Call a physician immediately.

Inhalation: Remove to fresh air. Keep patient warm and at rest. Call a physician immediately.

Ingestion: Do not induce vomiting. Rinse mouth with water. Call a physician immediately.

NOTES TO PHYSICIAN:

Symptoms: Dizziness, headache, nausea and vomiting, muscular fasciculation of limbs, unconsciousness, convulsions and coma (very high doses), tremors, gastrointestinal discomfort, excitement.
Local: After skin and/or eye contact: paraesthesia (local).
Systemic: Usually transient with resolution within 24 hours.

Risks: This product/preparation contains a pyrethroid.
Must NOT be confused with organophosphorus compounds!

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Treatment: Systemic: Endotracheal intubation should be done and gastric lavage performed, followed by administration of charcoal.
 Monitoring of respiratory, cardiac and central nervous system.
 ECG - monitoring (Electrocardiogram).
 Early dialysis (h(a)emoperfusion)
 Check for pulmonary oedema in event of inhalation.
 Against convulsions: Give diazepam: for adults 5-10 mg intravenously as necessary until fully sedated; for children 2.5 mg i.v.
 There is no specific antidote.
 Contraindication: Atropine.
 Contraindication: derivatives of adrenaline.

5) FIRE FIGHTING MEASURES

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

Specific hazards during fire fighting: In the event of fire the following can be released: 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.
 Keep away sources of ignition.

Environmental precautions: Do not discharge into the drains/surface water/groundwater.

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.

Additional advice: Information regarding personal protective equipment, see section 8.
 Information regarding waste disposal, see section 13.

7) HANDLING AND STORAGE

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.
 Take measures to prevent the build up of electrostatic charge.

Storage: Store in original container.
 Keep container tightly closed in a dry and well-ventilated place.
 Store in a place accessible by authorized persons only.
 Keep away from food, drink and animal feedingstuffs.
 The storage temperature should lie between 0 °C and 30 °C, maximum up to 50 °C.

Suitable materials: Only use containers that are approved specifically for the substance/product.

8) EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace parameters:

Components	CAS-No.	Control parameters	Basis
Xylene	1330-20-7	221 mg/m ³ /50ppm (TWA)	EU ELV
Xylene	1330-20-7	442 mg/m ³ /100ppm (STEL)	EU ELV

Personal protective equipment when handling the concentrate: Face shield, solvent-resistant gloves

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, clear

Colour: Yellow to brown

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Odour: Slight, specific odour
Flash point: 55 °C (DIN 51755)
Density: ca. 0.82 g/cm³ at 20 °C
Water solubility: Emulsifiable (at 20 °C)

10) STABILITY AND REACTIVITY

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

11) TOXICOLOGICAL INFORMATION

Acute toxicity:
LD₅₀ oral, rat: > 5.000 mg/kg
LD₅₀ dermal, rat: > 5.000 mg/kg
LC₅₀ inhalation, rat: > 4,3 mg/l
Exposure time: 4 h (as aerosol)
Highest attainable concentration.

Skin irritation, rabbit: Moderately irritant

Eye irritation, rabbit: Moderately irritant

12) ECOLOGICAL INFORMATION

Toxicity to fish:
LC₅₀: 0,00047 mg/l Rainbow trout *Oncorhynchus mykiss*
Exposure time: 96 h
The value mentioned relates to the active ingredient.

Toxicity to daphnia:
EC₅₀: 0,00016 mg/l Water flea *Daphnia magna*
Exposure time: 48 h
The value mentioned relates to the active ingredient.

Toxicity to algae:
IC₅₀ Growth rate : > 10 mg/l *Desmodesmus subspicatus*
Exposure time: 72 h
The value mentioned relates to the active ingredient.
No acute toxicity was observed at its limit of water solubility.

13) DISPOSAL CONSIDERATIONS

Product: Dispose of by incineration in an authorised hazardous waste incineration plant. Comply with local legislation.

14) TRANSPORT INFORMATION

Un No.: 1993

MFAG: **

Subsidiary risk: •

Packaging group: III

Declaration for land shipment: 1993 FLAMMABLE LIQUID, N.O.S.

Declaration for sea shipment: 1993 FLAMMABLE LIQUID, N.O.S.

Declaration for shipment by air: 1993 FLAMMABLE LIQUID, N.O.S.

15) REGULATORY INFORMATION

Classification 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):
Xn: Harmful

R-phrases(s):

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R10: Flammable
R65: Harmful: may cause lung damage if swallowed.
R36/38: Irritating to eyes and skin.
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s):

S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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

WHO Classification: III (Moderately hazardous)

SA Classification: II (Slightly hazardous)

16) OTHER INFORMATION

Text of R phrases mentioned in Section 3:

R10: Flammable.
R20/21: Harmful by inhalation and in contact with skin.
R22: Harmful if swallowed.
R23: Toxic by inhalation.
R28: Very toxic if swallowed.
R36: Irritating to eyes.
R36/37: Irritating to respiratory system and skin.
R38: Irritating to skin.
R41: Risk of serious damage to eyes.
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65: Harmful: may cause lung damage if swallowed.
R67: Vapours may cause drowsiness and dizziness.

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the product's properties.

Consult the label for the 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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