

SAFETY DATA SHEET



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1) IDENTIFICATION OF THE SUBSTANCE / PREPARATION

Commercial name: **BAYTHROID® WP 10**

Usage: Insecticide

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

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

3) COMPOSITION / INFORMATION ON THE INGREDIENTS

Chemical nature: Wettable powder (WP)
Cyfluthrin 10 %

Hazardous components:

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrases	Concentration [%]
Cyfluthrin	68359-37-5 269-855-7	T+, N	R23, R28, R50/53	10,00
Alkylaryl sulfonate	91078-64-7 293-346-9	Xn	R20/22, R41, R52/53	1,00

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

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

Skin contact: Wash off immediately with soap and plenty of water, if available with polyethyleneglycol 400, subsequently rinse with 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 thoroughly with water, also under the eyelids, for at least 15 min. Remove contact lenses after the first 5 minutes, then continue rinsing the eye. Get medical attention if irritation develops and persists.

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

NOTES TO PHYSICIAN:

Symptoms: Local: After skin contact: Paresthesia (local), usually transient with resolution within 24 hours. Eye and mucous membrane irritation, cough.
Systemic: Discomfort in the chest, bronchial hypersecretion, pulmonary oedema, tachycardia, low blood pressure, palpitation, vomiting, diarrhoea, abdominal pain, nausea, salivation, dizziness, blurred vision, headache, apathy, anorexia, somnolence, coma, spasm, convulsions, tremors, ataxia, muscular fasciculation.

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

Treatment: Local treatment: After eye contact: Instillation of local anaesthetic drops, e.g. 1 % amethocaine hydrochloride eye

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drops. Give analgesics as necessary.
Systemic treatment: 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)
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 antidote.
Contraindication: Atropine.
Contraindication: Derivatives of adrenaline.
Spontaneous recovery.

5) FIRE FIGHTING MEASURES

Extinguishing media: Water spray, foam, CO₂, sand.

In the event of fire, the following can be released: Hydrogen chloride (HCl), hydrogen cyanide (hydrocyanic acid), hydrogen fluoride (HF), carbon monoxide (CO), nitrogen oxides (NO_x).

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.
Remove all sources of ignition.

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

Methods for cleaning up: Use mechanical handling equipment.
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

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.
Dust may form explosive mixtures with air.

Storage:

Requirements for storage areas and containers: Keep container tightly closed.
Store in a place accessible by authorized persons only.
Keep only in the original container at temperature not exceeding 50 °C.

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

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

8) EXPOSURE CONTROLS AND PERSONAL PROTECTION

Hygiene measures: Avoid contact with skin, eyes and clothing.
Keep working clothes separately.
Wash hands immediately after work, if necessary take a shower.
Remove soiled clothing immediately and clean thoroughly before using again.
Garments that cannot be cleaned must be destroyed (burnt).

Personal protection during normal use: Wear gloves.

Personal protection during formulating and manufacture:

Respiratory protection: If product is handled while not enclosed and if contact may occur: Wear respirator with a particle filter mask (protection factor 4) conforming to European norm EN149FFP1 or equivalent.

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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: Tightly fitting safety goggles. Wear goggles conforming to EN166 (Field of Use 5 or equivalent).

Skin and body protection: Wear standard coverall and type 3 suit. Wear two layers of clothing wherever possible. Polyester/cotton or 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.

9) PHYSICAL AND CHEMICAL PROPERTIES

Form: Solid, powder
Colour: Beige
Odour: Slight characteristic smell
Melting point: > 200°C
Bulk volume fluffed: Approx. 380 ml/100 g
Bulk volume jolted: Approx. 300 ml/100 g
Solubility in water: Dispersible
ph value: 6,0 - 7,5 at 10 g/l in water

10) STABILITY AND REACTIVITY

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

11) TOXICOLOGICAL INFORMATION

Acute toxicity:

LD₅₀ oral, male rat, fasted: 2290 mg/kg
LD₅₀ oral, female rat, fasted: 2866 mg/kg
LD₅₀ dermal, rat: > 5000 mg/kg
LD₅₀ inhalation (4 h), aerosol: > 0.225 formulation/m³/air
Highest attainable concentration. Determined in the form of a respirable aerosol.

Irritation of the skin, rabbit: Non-irritant

Irritant to the mucous membranes, rabbit: Slightly irritant

Cutaneous sensations may occur, such as burning or stinging on the face and mucosae. However, these sensations cause no lesions and are of a transitory nature (max. 24 hours).

12) ECOLOGICAL INFORMATION

Fish toxicity: (active ingredient)

LD₅₀: 0,0032 mg/l (96 h); Golden orfe (*Leuciscus idus*) (Bayer) LD₅₀: 0,0006 mg/l (96 h); Rainbow trout (*Salmo gairdneri*) (Bayer)
LD₅₀: 0,0015 mg/l (96 h); (*Lepomis macrochirus*) (Bayer) LD₅₀: 0,022 mg/l (96 h); Carp (*Cyprinus carpio*) (Bayer)

Toxicity to daphnia: (active ingredient)

EC₅₀: 0,00016 mg/l Water flea (*Daphnia magna*)
Exposure time: 48 h

Toxicity to algae: (active ingredient)

IC₅₀: > 10 mg/l *Desmodesmus subspicatus*
Growth rate Exposure time: 72 h

13) DISPOSAL CONSIDERATIONS

Product disposal: Dispose of by incineration in an authorized special waste incineration plant. Comply with local legislation.

Packaging material disposal: Destroy empty container and never use for any other purpose.

14) TRANSPORT INFORMATION

UN Number: 3077

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Class: 9
IMDG: -
Ems: F-A, S-F
MFAG: -
Subsidiary risk: •
Packing group: III

Declaration for land shipment: 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (cyfluthrin)

Declaration for sea shipment: 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (cyfluthrin)

Declaration for shipment by air: 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (cyfluthrin)

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):

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s):

S24: Avoid contact with skin.

S35: This material and its container must be disposed of in a safe way.

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)

16) OTHER INFORMATION

Text of R phrases mentioned in Section 3:

R20/22: Harmful by inhalation and if swallowed.

R23: Toxic by inhalation.

R28: Very toxic if swallowed.

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.

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

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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