

SAFETY DATA SHEET



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1) IDENTIFICATION OF THE SUBSTANCE / PREPARATION

Commercial name: **TEMPO® SC**

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

3) COMPOSITION / INFORMATION ON THE INGREDIENTS

Chemical nature: Suspension concentrate (=flowable concentrate) (SC)
Beta-cyfluthrin 125 g/l

Hazardous components:

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrase(s)	Concentration [%]
beta-cyfluthrin	68359-37-5 269-855-7	T+, N	R26/28, R50/53	11,60

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. If the patient is likely to become unconscious, place and transport in stable sideways position. Remove soiled or soaked clothing immediately.

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 simple toilet milks.

Eye contact: In case of contact with eyes rinse thoroughly with plenty of lukewarm water for at least 15 minutes.

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

NOTES TO PHYSICIAN:

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

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

Treatment: 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)
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 antidote.

SAFETY DATA SHEET



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: Hydrogen chloride (HCl), hydrogen cyanide (hydrocyanic acid), hydrogen fluoride, carbon monoxide (CO), nitrous gases (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. Unprotected persons must be kept away.

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

Handling: Advice on safe handling: Use only in area provided with appropriate exhaust ventilation.

Storage: Requirements for storage areas and containers:
Store in original container.
Keep container tightly closed in a dry and well-ventilated place.
Store in a place accessible by authorized persons only.

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

Storage stability:

Storage temperature: < 50 °C

Other data: Do not store at temperatures below -10 °C.

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

8) EXPOSURE CONTROLS AND PERSONAL PROTECTION

Personal protective equipment:

In normal use and handling conditions: Wear protective clothing, overall, rubber gloves and face shield during mixing and application.

In all other cases the following recommendations would apply:

Respiratory protection: No personal respiratory protective equipment normally required. Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.

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).

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.

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 and/or soaked clothing immediately and clean thoroughly before using again.
Garments that cannot be cleaned must be destroyed (burnt).

SAFETY DATA SHEET



9) PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid, suspension
Colour: Beige
Odour: Slight specific odour
pH value: 4,0-5,0 at 100 % (20 °C)
Density: Ca. 1,08 g/cm³ at 20 °C
Solubility in water: Miscible
Flash point: No flash point up to 100 °C. Not determinable due to boiling at higher temperatures.

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: 960 mg/kg
LD₅₀ dermal, rat: > 2000 mg/kg
LC₅₀ inhalation, rat: > 1,72 mg/l Exposure time: 4 h (as aerosol) Highest attainable concentration.
Skin irritation, rabbit: Non-irritant
Eye irritation, rabbit: Slight irritant effect - does not require labeling
Sensitization, guinea pig: Non-sensitizing. OECD 406, Buehler test
The above tests were conducted with a similar formulation.

12) ECOLOGICAL INFORMATION

Toxicity to fish:
LC₅₀: 0,00176 mg/l Rainbow trout (*Oncorhynchus mykiss*)
Exposure time: 96 h
Toxicity to daphnia:
EC₅₀: 0,0036 mg/l Water flea (*Daphnia magna*)
Exposure time: 48 h
The above tests were conducted with a similar formulation.

13) DISPOSAL CONSIDERATIONS

Disposal product: Package product wastes. Close and label the waste receptacles and, likewise, any uncleaned empty containers. Dispose of them at a suitable waste incineration plant in accordance with the official regulations. Where large quantities are concerned, consult the supplier.
Disposal Packaging: Disposal in accordance with local legal provisions.

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

SAFETY DATA SHEET



(BETA-CYFLUTHRIN SOLUTION)

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

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: Beta-cyfluthrin.

Symbol(s):

Xn: Harmful.

N: Dangerous for the environment.

R-phrases(s):

R22: Harmful if swallowed.

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

S-phrases(s):

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: II (Moderately hazardous).

16) OTHER INFORMATION

Text of R phrases mentioned in Section 3:

R26/28: Very toxic by inhalation and if swallowed.

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

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 instructions 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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