

SAFETY DATA SHEET



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1) IDENTIFICATION OF THE SUBSTANCE / PREPARATION

Commercial name: **STARYCIDE® SC**

Usage: Insecticide

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

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Responsible department: Product Development and Regulatory Affairs
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In case of poisoning emergencies:
Bayer (office hours only): +27 11 921 5429/5471/5639
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: Suspension concentrate (=flowable concentrate)(SC)
Triflumuron 480 g/l

Hazardous components:

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrases(s)	Concentration [%]
Triflumuron	64628-44-0 264-980-3	N	R50/53	39.40
Fatty acid methyl tauride sodium salt	137-20-2 205-285-7	Xi	R41	< 1.00 - < 5.00
Glycerine	56-81-5 200-289-5			> 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 patient in stable position (lying sideways). Remove contaminated clothing immediately and dispose of safely.

Skin contact: Wash off immediately with soap and plenty of water.

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

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

Inhalation: Move to fresh air. Keep patient warm and at rest. Call a physician or poison control center immediately

Notes to physician:

Treatment: Elementary aid, decontamination and symptomatic treatment.

5) FIRE FIGHTING MEASURES

Extinguishing media: Water spray, foam, carbon dioxide (CO₂), 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 (HF)
Carbon monoxide (CO)
Nitrogen oxides (NOx)

Special protective equipment for fire-fighters: In the event of fire and/or explosion do not breathe fumes.

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In the event of fire, wear self-contained 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 allow to get into the drains, surface water, groundwater.

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: Use only in area provided with appropriate exhaust ventilation.

Storage:
Requirements for storage areas and containers: Keep container tightly closed in a dry, cool and well-ventilated place.
Store in a place accessible by authorized persons only.
Keep only in the original container at temperatures between -10 °C – 40 °C.

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

Suitable materials: HDPE (high density polyethylene)

8) EXPOSURE CONTROLS AND PERSONAL PROTECTION

Personal protective equipment:

In normal use and handling conditions: Wear 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 6 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 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, suspension

Colour: White to beige

Odour: Weak characteristic smell

Initial boiling point: > 100 °C

Density: Approx. 1,22 g/cm³ at 20 °C

Solubility in water: Miscible

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Ignition temperature: 485 °C

Explosivity: Not explosive

10) STABILITY AND REACTIVITY

Stable under recommended storage conditions.

11) TOXICOLOGICAL INFORMATION

Acute toxicity:

LD₅₀ oral, rat: > 5000 mg/kg (Bayer)

LD₅₀ dermal, rat: > 5000 mg/kg (Bayer)

Irritation of the skin, rabbit: Non-irritant (similar formulation)

Irritant of the eyes, rabbit: Non-irritant (similar formulation)

Skin sensitization, guinea pig: Non-sensitizing (similar formulation)
OECD Test Guideline 406, Magnusson & Kligman test

12) ECOLOGICAL INFORMATION

Fish toxicity:

LC₅₀: 183 mg/ℓ (96 h) Bluegill sunfish (*Lepomis macrochirus*)

Toxicity for Daphnia:

EC₅₀: 0,00032 mg/ℓ Water flea (*Daphnia magna*)

Toxicity for algae:

Growth rate IC50: >446 mg/ℓ (72 h) (*Desmodesmus subspicatus*)

13) DISPOSAL CONSIDERATIONS

Disposal products: 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.

Disposal packaging: Puncture and flatten empty container and bury in ground. Comply with local legislation.

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.
(TRIFLUMURON SOLUTION)

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

Declaration for shipment by air: 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(TRIFLUMURON 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: Triflumuron.

Symbol(s):

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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):

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:

R41: Risk of serious damage to eyes.

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 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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