
STARPLEX 83 CC

Material Safety Data Sheet

Revised on: 1 January 2017

Revision number 3

1. Substance/preparation and company identification

TOBACCOGUARD®

Use: Public Health, Insecticide

Company:

Starplex 83 CC
Reg. No. 2004/01564/23
P.O. Box 14374
BREDELL 1623
SOUTH AFRICA
TEL: (011) 979-4246/7

Emergency contact numbers

Tygerberg Poison Center: +2711 931 6129
Griffon Poison Information Centre - 082 446 8946

2. Composition/information on ingredients

Chemical nature

Hazardous ingredients

ULV Solution (UL)
Permethrin 50 g/kg

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrase(s)	Concentration [%]
Permethrin	52645-53-1 258-067-9	Xn, N	R20/22, R43, R50/53	25,00

For the full text of the R phrases mentioned in this Section, see Section 16.

3. Hazard identification

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.

4. First-aid measures

ACUTE SYMPTOMS:

Skin contact: Contact with the liquid may cause irritation, redness, discomfort; sensitization and/or dermatitis on sensitive skin.

Eye contact: Irritating, may cause redness, pain and blurred vision.
Ingestion and overexposure: The toxin affects the central nervous system; may cause a burning sensation in the mouth, numbness of the lips and tongue, headache, tremors, nausea, abdominal pain, vomiting, diarrhoea, anaphylaxis, and/or convulsions; allergic reaction may be delayed. The solvent may be aspirated into the respiratory tract.
Inhalation: Prevent inhalation of vapour or mist. The solvent vapour may cause transient euphoria, headache, drowsiness, vomiting. Persons sensitive to pollen are prone to allergic reaction to pyrethroids.

FIRST AID TREATMENT:

Skin contact: Remove contaminated clothing, rinse the affected skin area with plenty of soap and cool water or shower.
Eye contact: Immediately wash eyes with copious amounts of clean water for at least 15 minutes, cover with a sterile pad, contact a doctor.
Ingestion and overexposure: Keep patient calm and reassured, rinse mouth with water. DO NOT induce vomiting. Never give anything by mouth to an unconscious person. DO NOT apply direct mouth to mouth respiration, use a disposable protective mouthpiece.
Inhalation: Immediately remove patient from source of poisoning to well-ventilated area and keep him quiet and reassured. If necessary, administer artificial respiration and oxygen or closed chest cardiac massage.

Note to physician: No specific antidotes known. Symptomatic treatment and supportive therapy as indicated.

5. Fire-fighting measures

Fire: The material is flammable. Flash point: about 77 °C (closed cup).

Explosive: Dangerous hazard when exposed to heat, flame sparks or oxidizing agents. Explosive in the form of vapour if exposed to heat or flame.

Personnel involved in a fire situation with this material should wear self-contained breathing apparatus as toxic fumes may be given off.

No unprotected person should be allowed in the vicinity.

Permethrin decomposes in a fire to emit toxic fumes of Cl⁻.
The solvent emits acrid smoke and irritating fumes.

Fire extinguishing agents to be used: Foam, CO₂, dry chemical.

Contain run-off with temporary earth barriers. The product is very toxic to aquatic organisms.

6. Accidental release measures

Soak up spillage with dry sand, sweep up carefully and dispose of as for toxic and flammable waste in accordance with local/national regulations.\

Protective clothing to be worn when clearing spillage.

7. Handling and storage

Storage: Store under lock and key, out of reach of children and pets. Store in a cool, dry place away from sources of heat and naked flames. Store away from farm food, feedstuffs, eating utensils and drinking water.

Cleaning of equipment after use: Clean protective clothing, used protective clothing and the workers' personal clothing shall be kept apart. At the end of each day, all protective clothing and respirators shall be decontaminated, washed, rinsed and dried. Extra care must be taken when cleaning equipment after use.

Handling precautions: Do not treat in the presence of food, feed, preparation and/or food handling surfaces. Cover these before treatment and do not remove covers within 3 hours after treatment. Do not spray onto plants. Switch off all electric appliances. During application and when cleaning equipment and protective clothing, contamination of all sources of drinking water, rivers, dams, crops or grazing shall be prevented. The product is toxic to fish, bees and wildlife.

8. Exposure controls and personal protection

Personal protective equipment

Respiratory protection:

Breathing protection if gases/vapours are formed. Wear respiratory protection if ventilation is inadequate. Gas filter EN141 Type A for gases/vapours of organic compounds (boiling point >65 °C).

Hand protection:

Suitable chemical resistant safety gloves also with prolonged, direct contact
E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other.

Eye protection:

Tightly fitting safety goggles (splash goggles)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit

General safety and hygiene measures:

Take off immediately all contaminated clothing. Store work clothing separately. Keep away from food, drink and animal feeding stuffs. No eating, drinking, smoking or tobacco use at the place of work. Hands and/or face should be washed before breaks and at the end of the shift.

9. Physical and chemical properties

Description: A clear, straw-coloured liquid.

Solubility: Permethrin is slightly soluble in water.

Corrosiveness: For the product avoid excessive wetting of plastic, rubber and asphalt surfaces.

Flash point: About 77 °C (closed cup).

Degradation: For permethrin in soil and water, degradation is rapid; half-life in soil less than 38 days.

10. Stability and reactivity

Conditions to avoid: Extremes of temperature and direct sunlight.

Non hazardous reactions when stored and handled according to prescribed instructions.

11. Toxicological information (active ingredient)

LD₅₀/oral/rat/male/female: 430 mg/kg / - 4000mg/kg

LC ₅₀ /by inhalation/rat/male/female:	2.3 mg/l / 4 h
LD ₅₀ /dermal/rat/male/female:	4000 mg/kg
Skin irritant:	Not a skin irritant.
Sensitization/guinea pig:	Mild skin sensitizer.

12. Ecological information

Ecotoxicity

Toxicity to fish:
Rainbow trout/LC₅₀ (96 h): 0.009 mg/l

Bluegill LC₅₀ (96 h) 1.8 µg/l
Aquatic invertebrates:
Daphnia magna/LC₅₀ (48 h): 0.6 µg/l

Toxicity to birds:
Mallard duck LD₅₀ : >9800mg/kg

Persistence and degradability

Degradation in soil and water are rapid.

Additional information

Other ecotoxicological advice:
Do not discharge product into the environment.

13. Disposal considerations

Must be dumped or incinerated in accordance with local regulations.

Contaminated packaging:
Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

Destroy the empty container by perforating and flattening and dispose of as toxic waste in accordance with local/international regulations. DO NOT re-use for any other purpose.

14. Transport information

Land transport

ADR:	Not dangerous goods
RID:	Not dangerous goods
ADNR:	Not dangerous goods

IMDG:	Not dangerous goods
GGVS:	Not dangerous goods
ICAO/IATA:	Not dangerous goods

15. Regulatory information

Regulations of the European union (Labelling) / National legislation/Regulations

Classification and labelling in accordance with the EC Directive on dangerous preparations 1999/45/EC as amended.

Classification: Hazard warning labelling compulsory.

Hazardous components which must be listed on the label: Permethrin.

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):

S1/2: Keep locked up and out of the reach of children.

S23: Do not breathe spray mist.

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. Contains permethrin. May produce an allergic reaction.

WHO Classification: II (moderately hazardous)

16. Other information

Text of R phrases mentioned in Section 3:

R20/22: Harmful by inhalation and if swallowed.

R43: May cause sensitization by skin contact.

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

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.
