

STARPLEX 83 CC

Material Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE / MISTURE AND OF THE COMPANY

1.1 Product Name: Tobaccoguard ULV

1.2 Use: Public Health, Insecticide

1.3 Company Name:

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

1.4 Emergency Contact Numbers:

Tygerberg Poison Centre: +2721 931 6129
Griffon Poison Information Centre - 082 446 8946

2. HAZARD IDENTIFICATION

2.1 GHS Label Elements:

Hazard pictogram(s):



2.2 Signal word: DANGER

2.3 Hazard statements:

Flam. Liquid 4 H227
GHS02: Flammable
Dermal, Skin Sens. 1, H317
Aspiration, Asp. Tox. 1, H304

R phrases:

R20/22, R43, R50/53

Symbols:

Xn, N

2.4 HAZARD STATEMENTS

H410 Very toxic to aquatic life with long lasting effects.

2.5 PRECAUTIONARY STATEMENTS

P273 Avoid release to the environment.

P302+352 IF ON SKIN: Wash with plenty of soap and water.
 P305+351+338+313 IF IN EYES: Rinse cautiously with water for several minutes.
 Remove contact lenses, if present and easy to do. Continue rinsing.
 Get medical advice/attention.
 P391 Collect spillage.
 P403+233 Store in a well-ventilated place. Keep container tightly closed.
 P501 Dispose of contents/container in accordance with local regulations.
 P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 P331 Do NOT induce vomiting.
 P332+313 If skin irritation occurs: Get medical advice/attention.
 P405 Store locked up.

3. COMPOSITION INFORMATION ON INGREDIENTS:

CAS NO	HAZARDOUS COMPONENT	CONCENTRATION	GHS CLASSIFICATION
52645-53-1	Permethrin	>5 %	Acute Tox. 4 (H302) Skin Sens. 1 (H317) Acute Tox. 4 (H332) Aquatic Acute 1 (H400) Aquatic chronic 1
6422-83-9	Aromatic hydrocarbon solvent	> 74 %	H315: Causes skin irritation [Warning Skin corrosion/irritation] H317 May cause an allergic skin reaction [Warning Sensitization, Skin] H319 Causes serious eye irritation [Warning Serious eye damage/eye irritation]

4. FIRST AID MEASURES:

4.1 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.

4.2 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:

5.1 Fire:	The material is flammable. Flash point: about 77 °C (closed cup).
5.2 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:

6.1 Personal Precautions:	Avoid contact with eyes. Do not breathe in spray mist or dust/fumes/vapours. Ventilate area of spill or leak, especially in contained areas.
6.2 Protective equipment:	Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.
6.3 Emergency procedures:	Alert firefighting personnel, evacuate unprotected personnel and animals.
6.4 Environmental Precautions:	Prevent spilled product from entering sewers, waterways or ground water. This product is classified to be very toxic / toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment. Any spillages or uncontrolled discharges

into watercourses should be reported immediately to the police and the Department of Water/Environmental Affairs.

Methods and Materials for Containment:

Contain spilled product by diking area with sand or earth.

Methods and Materials for Clean-up:

Cover contained spill with an inert absorbent material such as sand, vermiculite, earth or other appropriate material. Vacuum, scoop, or sweep up material and place the material into a clean, dry, sealable container. Label containers with the contents and dispose of according to local regulations. Do not place spilled material back in original container. Do not re-use spilled material. Collect washings and add to the drums already collected. Do not flush spilled material or washings into drains or waterways. To decontaminate the spill area, tools and equipment, wash with water and suitable detergent.

7. HANDLING AND STORAGE:

7.1 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.

7.2 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.

7.3 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 CONTROL AND PERSONAL PROTECTION:

8.1 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

8.2 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:

Form:	Liquid
Colour:	Clear, straw-coloured
Odour:	Aromatic
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:

Permethrin Technical toxicity:

Acute LD50 oral:	430 mg/kg - 4000 mg/kg
Acute LD50 dermal:	>2500 mg/kg
LC50 inhalation:	>685 mg/m ³ air (4h)

Aromatic hydrocarbon toxicity:

Acute oral LD50:	2400 mg/kg
Acute dermal LD50:	>2500 mg/kg
Acute inhalation LC50:	90 mg/kg

Formulated product toxicity:

Acute oral LD50:	3116 mg/kg
Acute dermal LD50:	3165 mg/kg
LC50 inhalation:	212 mg/l air

12. ECOLOGICAL INFORMATION:

12.1 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

12.2 Persistence and degradability

Degradation in soil and water are rapid.

12.3 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:

UN Number: 3082
Road Transport ADR/IRD:
Class: 9
Packaging group: III
UN Proper Shipping Name: Environmentally hazardous substance, Liquid, N.O.S.
(Permethrin 50g/l)

Maritime Transport IMDG/IMO:

Class: 9
Packaging group: III
UN Proper Shipping Name: Environmentally hazardous substance, Liquid, N.O.S.
(Permethrin 50g/l)

Marine Pollutant (Y/N): Yes

Air Transport IATA/ICAO:

Class: 9
Packaging group: III
UN Proper Shipping Name: Environmentally hazardous substance, Liquid, N.O.S.
(Permethrin 50g/l)

15. REGULATORY INFORMATION:

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

15.2. Chemical Safety Assessment

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

16. OTHER INFORMATION:

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.