
STARPLEX 83 CC

Material Safety Data Sheet

Revised on: 1 June 2014

Revision number 2

1. Substance/preparation and company identification

DELTAKILL

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

2. Hazard identification

No specific dangers known, if the regulations/notes for storage and handling are considered.

NON-HAZARDOUS SUBSTANCE, NON-DANGEROUS GOODS

3. Composition/information on ingredients

Chemical nature

Hazardous ingredients

Deltamethrin

Content (W/W): 2.5 %

CAS Number: [52918-63-5]

A pyrethroid based product, opaque and mildly viscous

No specific dangers known, if the regulations/notes for storage and handling are considered.

NON-HAZARDOUS SUBSTANCE, NON-DANGEROUS GOODS

4. First-aid measures

General advice:

Avoid contact with the skin, eyes and clothing. Remove contaminated clothing. If difficulties occur: Obtain medical attention. Show container, label and/or safety data sheet to physician.

If inhaled:

Keep patient calm, remove to fresh air, and seek medical attention.

On skin contact:

After contact with skin, wash immediately with plenty of water and soap. If irritation develops, seek medical attention.

On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Rinse mouth immediately and then drink plenty of water, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Do not induce vomiting unless told to by a poison control centre or doctor.

Note to physician:

This product contains a pyrethroid and should not be confused with organophosphate compounds.

Local treatment: Initial treatment should be symptomatic and supportive.
After eye contact: Ingestion of local anaesthetic drops e.g. 1% Amethocaine

Systemic treatment: Hydrochloride eye drops. Give Analgesics as necessary.
Endotracheal intubation should be done and gastric lavage performed, followed by administration of charcoal.

5. Fire-fighting measures

Suitable extinguishing media:
dry powder, foam, water spray, carbon dioxide

Unsuitable extinguishing media for safety reasons:
water jet.

Specific hazards:
carbon monoxide, hydrogen fluoride, carbon dioxide, nitrogen oxides, toxic gas
The substances/groups of substances mentioned can be released in case of fire.

Special protective equipment:
Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:
In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental release measures

Personal precautions:

Use personal protective clothing. Avoid contact with the skin, eyes and clothing. Remove contaminated clothes, undergarments and shoes immediately.

Environmental precautions:

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up:

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.

Cleaning operations should be carried out only while wearing breathing apparatus. Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labelled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

7. Handling and storage

Handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas.

Protection against fire and explosion:

The product is combustible. Vapours may form ignitable mixture with air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

Storage

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect against moisture. Protect from direct sunlight.

Storage stability:

Storage duration: 24 Months

Protect from temperatures above: 30 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

8. Exposure controls and personal protection

Components with workplace control parameters

No exposure standard allocated

Personal protective equipment

Respiratory protection:

Breathing protection if breathable aerosols/dust are formed. Wear respiratory protection if ventilation is inadequate. Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures:

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Avoid contact with the skin, eyes and clothing. Wearing of closed work clothing is recommended. Remove contaminated clothing immediately and dispose of safely. 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:	mildly viscous liquid
Colour:	Opaque white
Odour:	low odour
Flashpoint:	100 °C
Specific gravity:	1.028(20°C)
Solubility in water:	Soluble
Partitioning coefficient n-octanol/water (log Pow):	Not applicable

10. Stability and reactivity

Stability:	Stable to exposure to air and sunlight. Stable under recommended storage conditions.
Compatibility:	Do not mix or spray with any spray or dip.
Degradation:	The microbial degradation of deltamethrin in soil takes place within 1 to 2 weeks.

11. Toxicological information

Acute toxicity

LD₅₀ rat (oral): > 22000 mg/kg (product)
LD₅₀ rat (dermal): > 10000 mg/kg (product)
LC₅₀ rat (by inhalation): 2.3mg/l/ 6 h

Irritation

Primary skin irritation rabbit: non-irritant (product)
Primary irritations of the mucous membrane rabbit: non-irritant (product)
Eye irritation: non-irritant

Sensitization

Modified Buehler test guinea pig: Skin sensitizing effects were not observed in animal studies.

12. Ecological information

Ecotoxicity

Toxicity to fish:

Information on Deltamethrin

LC50 (96 h) 0.00026mg/ Rainbow trout

Information on Deltamethrin

Aquatic invertebrates:

EC50 (48 h) .00001 mg/*Daphnia magna*

Information on Deltamethrin

Algae EC₅₀: >9.1 mg/72h

Toxicity to birds

Information on Deltamethrin

LD₅₀:>2250mg/ Bobwhite quail

LD₅₀:>4640mg/ Mallard duck

Persistence and degradability

Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

13. Disposal considerations

Must be disposed of 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.

14. Transport information

UN number: 3082

Class: 9

IMDG: -

MFAG: -

EMS: -

Subsidiary risk: •

Domestic transport:

Declaration for land shipment: 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE
LIQUID, N.O.S.

Declaration for sea shipment:	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S.
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Declaration for shipment by air:	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S.
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15. Regulatory information

WHO classification III
Risk phrase(s)
R23/25, 36/37/38, 51, 55, 57.
S-phrase(s)
S1/2, 3, 13, 20/21, 24, 28, 36

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.
