

STARPLEX 83 CC

Material Safety Data Sheet

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

1.1 Product Name: D-BUG

1.2 Use: Public Health

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 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Acute aquatic toxicity: Category 1
H400 Very toxic to aquatic life.

Chronic aquatic toxicity: Category 1
H410 Very toxic to aquatic life with long lasting effects.

Classification according to EU Directives 67/548/EEC or 1999/45/EC
N Dangerous for the environment, R50/53

2.2 Label elements

Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.
Hazard label for supply/use required.

Hazardous components which must be listed on the label:

Deltamethrin 25 g/l



Signal word: Warning

Hazard statements

H410 Very toxic to aquatic life with long lasting effects.
EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

Precautionary statements

P501 Dispose of contents/container in accordance with local regulation.

2.3 Other hazards

Cutaneous sensations may occur, such as burning or stinging on the face and mucosae. However, these sensations cause no lesions and are of a transitory nature (max. 24 hours).

3. COMPOSITION INFORMATION ON INGREDIENTS:

3.1 Mixtures

Chemical nature:

Micro-Encapsulated
Deltamethrin 2.5% w/w CS

3.2 Hazardous components

R-phrases according to EC directive 67/548/EEC

Hazard statements according to Regulation (EC) No. 1907/2006

CAS NO	HAZARDOUS COMPONENT	CONCENTRATION	GHS CLASSIFICATION
52918-63-5	Deltamethrin	25 g/l	Acute Tox. 3, H331 Acute Tox. 3, H301 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
128-37-0	Butylated hydroxyl Touene	2 g/l	H400, H410
9002-92-0	Polyoxyethylene Laurylether	80 g/l	H302 Harmful if swallowed. H315 Causes skin irritation. H318 Causes serious eye damage. H401 Toxic to aquatic life.

4. FIRST AID MEASURES:

4.1 General advice:

Avoid contact with the skin, eyes and clothing. Remove contaminated clothing.

4.2 If inhaled:

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

4.3 On skin contact:

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

4.4 On contact with eyes:

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

4.5 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.

4.6 Local treatment:

Initial treatment should be symptomatic and supportive.

4.7 After eye contact:

Apply local anaesthetic drops e.g. 1% Amethocaine Hydrochloride eye drops. Give Analgesics as necessary.

4.8 Systemic treatment:

Endotracheal intubation should be done and gastric lavage performed, followed by administration of charcoal.

5. FIRE FIGHTING MEASURES:

5.1 Suitable extinguishing media:

Dry powder, foam, water spray, carbon dioxide

5.2 Unsuitable extinguishing media for safety reasons:

Water jet.

5.3 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.

5.4 Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

5.5 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:

6.1 Personal precautions:

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

6.2 Environmental precautions:

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

6.3 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 labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

7. HANDLING AND STORAGE:

7.1 Handling:

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

7.2 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.

7.3 Storage:

Segregate from foods and animal feeds.

7.4 Further information on storage conditions:

Keep away from heat. Protect against moisture. Protect from direct sunlight.

7.5 Storage stability:

Storage duration: 24 Months

7.6 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 CONTROL AND PERSONAL PROTECTION:

8.1 Components with workplace control parameters:

No exposure standard allocated

8.2 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).

8.3 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:	Viscous liquid
Colour:	Opaque white
Odour:	Light chemical odour
Flashpoint:	100 °C
Specific gravity:	1.028(200 °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:

Deltamethrin technical:

Acute Oral LD50:	5000 mg/kg (tech)
Acute Oral LD50:	>40 000 mg/kg (SC)
Acute Dermal LD50:	>2000 mg/kg
Acute Inhalation:	2.2 mg/l air (4h)

Polyvinyl Alcohol:

Acute Oral LD50: 14,700 mg/kg (Mouse)
Acute Dermal LD50: >5000 mg/kg
Acute Inhalation: >5000 mg/kg

Polyoxyethylene Laurylether:

Acute oral LD50: 1 mg/kg
Acute Dermal LD50: >5000 mg/kg
Acute Inhalation: >5000 mg/kg

Formulated product:

Acute Oral LD50: 1 249 mg/kg
Acute Dermal LD50: 3 460 mg/kg
Acute Inhalation: 8 787 mg/kg

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.

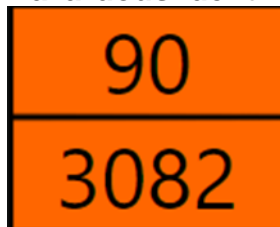
Declaration for shipment by air:

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S.

Label:



Hazardous Identification Number:



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

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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.