

STARPLEX 83 CC

Material Safety Data Sheet

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

1.1 Product Name: Timberdefence

1.2 Use: Domestic and Industrial

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 TIMBERDEFENCE is registered with the South African Department of Agriculture, Forestry and Fisheries in terms of Act No.36 of 1947 as a toxicity group II product (Yellow band), i.e. "Moderately hazardous".

- Most important hazards:
- Human health effects
- Moderately toxic if ingested
- May cause moderate to severe irritation to skin
- May cause moderate to severe irritation and is harmful to eyes
- Irritating and moderately toxic by inhalation.
- Environmental effects
- Toxic to both plant and aquatic life

2.2 Physical hazards

- Highly flammable. Thermal decomposition results in release of toxic fumes.

2.3 Labels



2.4 Signal word: Warning

3. COMPOSITION INFORMATION ON INGREDIENTS:

CAS NO	HAZARDOUS COMPONENT	CONCENTRATION	GHS CLASSIFICATION
52315-07-8	Cypermethrin	1 %	H302: Harmful if swallowed H332: Harmful if inhaled
21564-17-0	2 – (thiocyanomethylthio) benzothiazole	0.8 %	H302: Harmful if swallowed H315: Causes skin irritation H317: May cause an allergic skin reaction

4. FIRST AID MEASURES:

Ingestion: Seek medical attention immediately. Do not induce vomiting. Drink lots of milk or water to dilute. If vomiting occurs, drink more water.
Note: Do not give anything orally to an unconscious person.

Skin contact: Immediately remove all contaminated clothing and wash with soap and water. If irritation develops and persists, seek medical attention.

Eye contact: Immediately flush with fresh water for at least 15 minutes. Seek medical attention immediately. Continue flushing for another 15 minutes if medical attention does not arrive promptly.

Inhalation: Remove patient to fresh air. Administer oxygen if necessary. If patient stops breathing administer artificial respiration. Seek medical attention immediately.

5. FIRE FIGHTING MEASURES:

5.1 Extinguishing media: Use dry chemical powder, sand, foam or CO².

Flammability: Product is highly flammable due to solvent content.

5.2 Specific hazards: May release irritating and toxic gases when exposed to high temperatures. Product may decompose if heated above 60°C.

5.3 Protective clothing: Self-contained breathing apparatus. PVC gloves. Cotton or polyester overalls. Safety glasses or goggles.

6. ACCIDENTAL RELEASE MEASURES:

6.1 Personal precautions: Wear gloves, safety glasses or splash-proof goggles and cotton or polyester overalls. In confined spaces wear respiratory equipment.

6.2 Environmental precautions: Avoid contamination of rivers, dams or canals. Prevent spillage from entering drains and ditches.

6.3 Methods for cleaning up: Absorb or dike with inert material such as sand or diatomaceous earth. Then dispose of at a class 1 disposal site.

7. HANDLING AND STORAGE:

7.1 Handling:

Avoid contact with eyes and skin.
Avoid inhalation of spray and vapour.
Wear suitable gloves.
Wear eye face protection.
After contact with the skin and eyes, immediately wash with soap and water.

Do not eat, drink or smoke while using the product.
Do not discharge into rivers, dams and canals.

7.2 Storage:

Keep out of reach of children, uninformed persons, and animals.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION:

8.1 Occupational Exposure Limit: TLV/TWA : 500 ppm (ACGIH) calculated.

8.2 Personal protective equipment: Wear suitable protective clothing such as overalls, rubber gloves and safety goggles during handling and use of the product. In confined spaces the use of approved respiratory equipment for protection from mists of pesticides is recommended.

8.3 Hygiene measures: Wash hands with soap and water before eating, drinking or smoking.
Wash overalls and clothes regularly.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical state: Transparent organic liquid
Colour: Yellowish-brown
Odour: Aromatic
pH: Slightly acidic
Temperature stability: Stable at temperatures of up to 60°C
Melting point: 60 - 80°C (Technical material)
Decomposition temperature: Above 60°C
Flammability: Highly flammable due to solvent content
Explosion properties: Not established
Flash point: Above 40°C (ASTM D-93)
Density @ 20°C: 0,88 kg/l
Solubility: Aromatic solvents

10. STABILITY AND REACTIVITY:

10.1 Stability: Stable in neutral and acidic media
10.2 Conditions to avoid: Elevated temperatures
10.3 Materials to avoid: Strong oxidants and alkalis
10.4 Hazardous decomposition Products: Toxic fumes of SO_x, CN-, Cl- and NO_x may be evolved on combination if heated above 60°C

11. TOXICOLOGICAL INFORMATION:

Acute toxicity Oral LD50 (rat): > 2565 mg/kg
Dermal LD50 (rat): > 8000 mg/kg
Inhalation LC50 (rat): > 2,5 mg/l of air over
4 hours (Technical material)
Local effects: See Section 3, "Human health effects"
Chronic toxicity: No evidence of carcinogenic or mutagenic effects
May cause asthma (inhalation over a long period) or dermatitis (if absorbed by the skin over a long period)

12. ECOLOGICAL INFORMATION:

Mobility:	Active ingredients have low mobility and strongly absorbs to soil.
Degradability:	Practically biodegradable but has a bactericidal effect.
Bioaccumulation:	Due to biodegradation and recommended application rates, it is unlikely that bioaccumulation will attain levels of environmental significance.
Ecotoxicity :	Birds: Minimally toxic to birds (data for technical material) Acute oral LD50: > 10000 mg/kg (mallard ducks) > 2000 mg/kg (chickens) Fish: Toxic to fish (data for technical material) LC50 (96 hr) : 0.69 ug/l (rainbow trout) Bees: Highly toxic to bees (data for technical material) LD50 (oral) : 0,035 ug/bee LD50 (topical): 0,02 ug/bee Daphnia: Very toxic to Daphnia magna (data for technical material) The 48-hour LC50 is 0,15 ug/l

13. DISPOSAL CONSIDERATIONS:

- 13.1 Product waste:** Dispose of in accordance with prevailing disposal regulations. Avoid contamination of soil and water by waste product. Whenever possible, any waste product should be recovered and re-used.
- 13.2 Packaging material:** Do not re-use containers. Puncture all plastic containers. Flatten all metal containers.

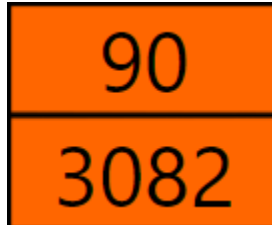
14. TRANSPORT INFORMATION:

UN No.	3082
NAME and description	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Class	9
Classification code	M6
Packing group	III
Labels	9



Road/Rail:	Pesticide, organic, liquid, toxic, flammable.
Air / IATA:	Pesticide, organic, liquid, toxic, flammable.
Sea:	Pesticide, organic, liquid, toxic, flammable. Marine pollutant.

Hazardous Identification Number:



15. REGULATORY INFORMATION:

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

Symbol: Xn, Xi

Indication of danger: Harmful, Irritant.

Risk phrase(s):

R 20/22: Harmful by inhalation and if swallowed,
R 36/37/38: Irritating to eyes, respiratory system and skin.
R 41: Risk of serious damage to eyes.
R 43: May cause sensitisation by skin contact.
R 50: Very toxic to aquatic organisms.
R 57: Highly toxic to bees.

Safety phrases:

S 2: Keep out of reach of children.
S 23: Do not breathe vapour/spray.
S 24/25: Avoid contact with skin and eyes.
S 36/37/38: Wear suitable protective clothing, gloves and eye/face protection.

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.