Revised on: 14/11/2023
Revision number 2
Next revision: Nov 2026
Ultrakill Termite Control SC

STARPLEX 83 CC

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: **ULTRAKILL TERMITE CONTROL SC**

Use: Public health, insecticide

Company name: Starplex 83 CC
Reg. No. 2004/015647/23
P.O. Box 14374
BREDELL 1623
SOUTH AFRICA
TEL: (011) 979-4246/7

Emergency Contact Numbers:
Griffon Poison Centre: +27 82 446 8946
Poisons Information Centre: 0861 555 777 (24-hours)
Red Cross War Memorial Children's
Hospital Poisons Information Centre: (021) 658 5308 (office hours)

2. HAZARDS IDENTIFICATION

SANS 10234:2008, Regulation EC 1272/2008 [EU-GHS/CLP]		
Hazard classes	**Hazard categories**	**Hazard codes**
Acute Toxicity (oral)	Category 4	H302
STOT RE	Category 2	H373
Aquatic Acute	Category 1	H400
Aquatic Chronic	Category 1	H410

GHS classification: Category 4
Hazard pictograms:

Signal word: Warning

Hazard statements:
H302: Harmful if swallowed.
H373: May cause damage to organs (central nervous system) through prolonged or repeated exposure.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

Precautionary statements:
P260: Do not breathe vapours.
P264: Wash with plenty of water and soap thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P273: Avoid release to the environment.
P301+P317: IF SWALLOWED: Get medical help.
P319: Get medical help if you feel unwell.
P330: Rinse mouth.
P391: Collect spillage.
P501: Dispose of contents/container to hazardous or special waste collection point.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture

Composition:

CAS NO	CHEMICAL NAME	CONCENTRATION	GHS CLASSIFICATION
120068-37-3	Fipronil	9.1%	Acute Tox. 3 (oral), H301 Acute Tox. 3 (dermal), H311 Acute Tox. 3 (inhalation), H331 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Mixture	Sodium alkylnaphthalene sulphonate; formaldehyde concentrate	<5%	Eye Dam./Irrit. 2A, H319
57-55-6	Propane-1,2-diol	<5%	Not classified

4. FIRST-AID MEASURES

General First Aid Measures: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label / SDS where possible).

First Aid Measures:
If inhaled:
Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:
Wash thoroughly with soap and water.

On contact with eyes:
Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:
Immediately rinse mouth and then drink 200 - 300 mℓ of water, and seek medical attention.

Most important symptoms and effects, both acute and delayed
Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Further important symptoms and effects are so far not known.

Indication of any immediate medical attention and special treatment needed
Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. FIRE-FIGHTING MEASURES

Extinguishing media
Suitable extinguishing media:
Water spray, carbon dioxide, foam, dry powder

Special hazards arising from the substance or mixture
Carbon monoxide, hydrogen chloride, hydrogen fluoride, Carbon dioxide, nitrogen oxides, sulfur oxides, organochloric compounds.
The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters
Special protective equipment:
Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:
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. Keep containers cool by spraying with water if exposed to fire. In case of fire and/or explosion do not breathe fumes.

---

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Do not breathe vapour/spray. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

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

Methods and material for containment and cleaning 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.
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.

Reference to other sections
Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

---

7. HANDLING AND STORAGE

Precautions for safe handling
No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.
Protection against fire and explosion:
No special precautions necessary. The substance/product is non-combustible. Product is not explosive.

Conditions for safe storage, including any incompatibilities
Segregate from foods and animal feeds.
Further information on storage conditions: Keep away from heat. Protect from direct sunlight.

Storage stability:
Storage duration: 24 Months

Specific end use(s)
For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

---

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure controls

Personal protective equipment

Respiratory protection:
Suitable respiratory protection for higher concentrations or long-term effect: Combination filter for gases/vapours of organic, inorganic, acid inorganic and alkaline compounds (e.g. EN 14387 Type ABEK).

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
Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

---

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Suspesion
Colour:	beige
Odour:	characteristic
Odour threshold:	Not determined since harmful by inhalation.
pH value:	approx. 6 - 8 (10 g/ℓ, approx. 20 °C)
Freezing point:	approx. 0 °C Information applies to the solvent.

Boiling point:	approx. 100 °C Information applies to the solvent.
Flash point:	Non-flammable.
Evaporation rate:	Not applicable
Flammability:	Based on the structure or composition there is no indication of flammability
Lower explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Upper explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Ignition temperature:	Based on the water content the product does not ignite.
Vapour pressure:	approx. 23.3 hPa (20 °C)

Information applies to the solvent.

Density:	approx. 1.06 g/cm3 (20 °C)

Relative vapour density (air):
not determined

Solubility in water:	dispersible

Partitioning coefficient n-octanol/water (log Kow):
not applicable

Thermal decomposition: not determined

Viscosity, dynamic:	approx. 1,600 - 1,850 mPa.s (21.6 °C)
Explosion hazard:	Based on the chemical structure there is no indicating of explosive properties.

Fire promoting properties: not fire-propagating

Other information
If necessary, information on other physical and chemical parameters is indicated in this section., The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

---

10. STABILITY AND REACTIVITY

Reactivity
No hazardous reactions if stored and handled as prescribed/indicated.

Chemical stability
The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions
No hazardous reactions if stored and handled as prescribed/indicated.

Conditions to avoid
See SDS section 7 - Handling and storage.

Incompatible materials
Substances to avoid:
strong bases, strong acids, strong oxidizing agents

Hazardous decomposition products
Hazardous decomposition products:
No hazardous decomposition products if stored and handled as prescribed/indicated.

---

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects
Acute toxicity

Assessment of acute toxicity:
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. Of moderate toxicity after single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation.

Experimental/calculated data:
LD_{50} rat (oral): 1,999 mg/kg

LC_{50} rat (by inhalation): > 1.7 mg/ℓ 4 h
An aerosol was tested.

LD_{50} rat (dermal): > 2,000 mg/kg

Irritation

Assessment of irritating effects:
Not irritating to the skin. Not irritating to the eyes.

Experimental/calculated data:
Skin corrosion/irritation rabbit: non-irritant

Serious eye damage/irritation rabbit: non-irritant

Respiratory/Skin sensitization

Assessment of sensitization:
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. There is no evidence of a skin-sensitizing potential.

Experimental/calculated data:
modified Buehler test guinea pig: Skin sensitizing effects were not observed in animal studies.

Germ cell mutagenicity

Assessment of mutagenicity:
Mutagenicity tests revealed no genotoxic potential. The product has not been tested. The statement has been derived from the properties of the individual components.

Carcinogenicity
Assessment of carcinogenicity:
The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: fipronil (ISO); 5-amino-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-[(trifluoromethyl)sulfinyl]-1H-pyrazole-3-carbonitrile
Assessment of carcinogenicity:
In long-term studies in rats the substance induced thyroid tumors. The effect is caused by an animal specific mechanism that has no human counter part. In long-term studies in mice in which the substance was given by feed, a carcinogenic effect was not observed.

Reproductive toxicity
Assessment of reproduction toxicity:
The results of animal studies gave no indication of a fertility impairing effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Developmental toxicity
Assessment of teratogenicity:
The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)
Assessment of repeated dose toxicity:
The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: fipronil (ISO); 5-amino-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-[(trifluoromethyl)sulfinyl]-1H-pyrazole-3-carbonitrile
Assessment of repeated dose toxicity:
Causes mortality and signs of neurotoxicity through prolonged or repeated exposure.

Other relevant toxicity information
Misuse can be harmful to health.

---

12. ECOLOGICAL INFORMATION

Toxicity
Assessment of aquatic toxicity:
The product has not been tested. The statement has been derived from the properties of the individual components. Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Information on: fipronil (ISO); 5-amino-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-[(trifluoromethyl)sulfinyl]-1H-pyrazole-3-carbonitrile

Toxicity to fish:
LC_{50} (96 h) 0.0852 mg/ℓ, Lepomis macrochirus

Information on: fipronil (ISO); 5-amino-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-[(trifluoromethyl)sulfinyl]-1H-pyrazole-3-carbonitrile

Aquatic invertebrates:
EC_{50} (48 h) 0.19 mg/ℓ, Daphnia magna

LC_{50} (96 h) 0.00014 mg/ℓ, Mysidopsis bahia

Information on: fipronil (ISO); 5-amino-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-[(trifluoromethyl)sulfinyl]-1H-pyrazole-3-carbonitrile

Aquatic plants:
EC_{50} (96 h) 0.068 mg/ℓ (biomass), Scenedesmus subspicatus

Persistence and degradability
Assessment biodegradation and elimination (H2O):
The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: fipronil (ISO); 5-amino-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-[(trifluoromethyl)sulfinyl]-1H-pyrazole-3-carbonitrile

Assessment biodegradation and elimination (H2O):
Not readily biodegradable (by OECD criteria).

Bioaccumulative potential
Assessment bioaccumulation potential:
The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: fipronil (ISO); 5-amino-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-[(trifluoromethyl)sulfinyl]-1H-pyrazole-3-carbonitrile
Bioaccumulation potential:

Bioconcentration factor: 321, Lepomis macrochirus
Accumulation in organisms is not to be expected.

Mobility in soil
Assessment transport between environmental compartments:
The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: fipronil (ISO); 5-amino-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-[(trifluoromethyl)sulfinyl]-1H-pyrazole-3-carbonitrile

Assessment transport between environmental compartments:
Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

Results of PBT and vPvB assessment
The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

Other adverse effects
The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

Additional information
Other ecotoxicological advice:
Do not discharge product into the environment without control.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods
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

Land transport

ADR

UN number	UN3082
UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains FIPRONIL 9%)
Transport hazard class(es):	9, EHSM
Packing group:	III
Environmental hazards:	Yes
Special precautions for user:	Tunnel code: E

RID

UN number	UN3082
UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains FIPRONIL 9%)
Transport hazard class(es):	9, EHSM
Packing group:	III
Environmental hazards:	Yes
Special precautions for user:	None known

Inland waterway transport

ADN

UN number	UN3082
UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains FIPRONIL 9%)
Transport hazard class(es):	9, EHSM
Packing group:	III
Environmental hazards:	Yes
Special precautions for user:	None known
Transport in inland waterway vessel:	Not evaluated

Sea transport

IMDG

UN number:	UN 3082
UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains FIPRONIL 9%)
Transport hazard class(es):	9, EHSM
Packing group:	III
Environmental hazards:	Yes
Marine pollutant:	YES
Special precautions for user:	None known

Air transport

IATA/ICAO

UN number:	UN 3082
UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains FIPRONIL 9%)
Transport hazard class(es):	9, EHSM
Packing group:	III
Environmental hazards:	Yes
Special precautions for user:	None known

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Regulation: Not evaluated
Shipment approved: Not evaluated
Pollution name: Not evaluated
Pollution category: Not evaluated
Ship Type: Not evaluated

---

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the mixture
OSHA 1993 Regulations for Hazardous Chemical Substances

Relevant information regarding restrictions: None
EU regulation: Regulation EC1272/2008 (EU-GHS/CLP).
Other national regulations: None
Chemical safety assessment carried out? No

16. OTHER INFORMATION

Packaging: Packed in 50, 100, 150, 200, 250 and 500 mℓ as well as 1, 2.5, 5, 10, 20, 25 and 185 ℓ plastic containers and labelled according to South African regulations and guidelines.

Other hazard statements, abbreviations and explanations:
H311: Toxic in contact with skin.
H330: Fatal if inhaled.
H301: Toxic if swallowed.
H372: Causes damage to organs (Central nervous system) through prolonged or repeated exposure.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.
H319: Causes serious eye irritation.
H315: Causes skin irritation.
IATA: International Air Transport Association.
IBC: International Bulk Chemical.
ICAO: International Civil Aviation Organization.
IMDG: International Maritime Dangerous Goods.
IMO: International Maritime Organization.
LD_{50}: The median lethal dose or the amount of toxic agent that is sufficient to kill 50 percent of a population within a certain period of time.
OEL/RL: Occupational exposure limit-recommended limit.
PEL: Permissible exposure limits.
TWA: Time-weighted average – the average exposure over a specific period, usually a nominal eight hours.
ST/STEL: Short-term exposure limits.

Disclaimer:
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 information on this sheet is not a specification; it does not guarantee specific properties. 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. All information is given in good faith but without guarantee in respect of accuracy, and no responsibility is accepted for errors and omissions or the consequence thereof. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and regulations are observed.

END OF DOCUMENT