

STARPLEX 83 CC

Material Safety Data Sheet



Issued on: 22 August 2017

1st Issue

1. Substance/preparation and company identification

1.1 ProRoach Gel

1.2 **Use/s:** Public Health, Insecticide

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

1.4 **Emergency contact numbers**
Tygerberg Poison Center: +27 (0)861 555 777
Griffon Poison Information Centre - +27 (0)82 446 8946

2. Composition/information on ingredients

- Chemical nature:
Biocidal, insecticide, bait
- Hazardous ingredients:

Fipronil

Content (W/W): 0.05 %
CAS Number: [120068-37-3]
Hazard symbol(s): T, N
R-phrases: 23/24/25, 48/25 & 50/53
S-phrases: 2, 3, 13, 24/25, 37 & 39

3. Hazard identification

Emergency Overview:

Caution! Keep exposed gel away from open food and food contact surfaces.
Harmful if absorbed through skin. Moderate eye irritation.
Avoid contact with skin, eyes and clothing. Wash thoroughly with soap and water after handling.

Harmful: danger of serious damage to health by prolonged exposure if swallowed.
Harmful: may cause lung damage if swallowed.
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



Avoid contact with eyes and skin.

Physical state:

Gel.

Route of exposure:

Eye contact, Skin contact, Skin absorption, Ingestion

Applicable pictogram:



Signal word: Warning

Immediate Effects:

Eyes

Avoid contact with eyes. Moderately irritating to the eyes, following prolonged direct contact.

Skin

Avoid any contact with skin. Harmful if absorbed through skin. Moderately irritating to skin following prolonged exposure.

Ingestion

Do not consume product orally.

Medical Conditions aggravated by exposure:

No specific conditions, are known, which may be aggravated by exposure to this product.

Hazard Statement:

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effect.

Precautionary Statement:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

Precautionary Statement (Prevention):

P273 Avoid release into the environment.

Precautionary Statement (Response):

P391 Collect spillage

Precautionary Statement (Disposal):

P501 Dispose of contents/container to/at hazardous or special waste collection point.



4. First-aid measures

General advice:

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

If inhaled:

Keep patient calm, remove him/her to fresh air/ well ventilated area, and seek medical attention.

On skin contact:

At contact with skin, immediately wash with plenty of water and soap. If irritation develops, seek immediate 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 A.S.A.P.

On ingestion:

Immediately rinse mouth and then drink plenty of water, do not induce vomiting, seek medical attention.

Note to physician:

Treatment: Treat according to symptoms (decontamination, vital functions), no specifically known antidote.

5. Fire-fighting measures

Suitable extinguishing media:

Water spray, water fog, carbon dioxide, foam, dry powder

Specific/special hazards:

Special protective equipment:

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

Further information:

In case of fire and/or explosion do not inhale fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow it 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. Do not inhale vapour/ spray.



Environmental precautions:

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

Methods for containment or 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. Cleaning operations should be carried out only while wearing suitable gloves. 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

Precautions for Safe Handling

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

Protection against fire and explosion:

The substance/ product is non-combustible and NOT explosive. Vapours may form ignitable mixture with air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

Conditions for safe storage, including possible incompatibilities:

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: 36 Months

Protect from temperatures above: 35 °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

Personal protective equipment

Respiratory protection:

Respiratory protection not required.

Hand protection:

Suitable chemical resistant safety gloves, with prolonged, direct contact e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and others.



Eye protection:

Tightly fitting safety glasses, with side-shields (frame /splash goggles).

Body protection:

Body protection to be chosen depending on activity and possible exposure, e.g. apron, protective boots, chemical-protection suit.

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice/s. Immediately take off/ remove all contaminated clothing. Store work clothing separately. Keep away from food, drink and animal feeding stuffs. No eating, drinking, smoking or tobacco use in the working area. Hands and/or face should be washed before breaks and at the end of the shift/ working day.

9. Physical and Chemical Properties

Form:	Gel
Colour:	Beige- Brown
Odour:	Odourless
pH value:	Between 5-7
Density:	1.27 g/cm ³ (20°C)
Evaporation rate:	Non-flammable.
Vapour pressure:	Approximately 23 hPa (20°C) – Information applies to the solvent
Relative Vapour Density (air):	Not applicable.
Flash point:	Product has not been tested yet. / Thus N/A.
Ignition temperature:	415 °C
Lower explosion limit:	As a result of being familiar with this product and the knowledge obtained regarding its composition, we do not expect any hazard as long as the product is used appropriately and in accordance with its intended use.
Upper explosion limit:	As a result of being familiar with this product and the knowledge obtained regarding its composition, we do not expect any hazard as long as the product is used appropriately and in accordance with its intended use.
Melting point:	10g/l, 21°C
Boiling point:	Product has not been tested yet.
Flammability:	No dangerous quantities of flammable gases will be produced by contact with water.



Viscosity dynamic: 30,189 – 30,636 mPa.s (21°C)

Explosion hazard: Not explosive.

Fire promoting properties: Not fire-propagating

Solubility in water: Dispersible

10. Stability and Reactivity

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

Substances to avoid:

Strong bases, strong acids, strong oxidizing agents (all are seen as incompatible materials).

Conditions to avoid:

Refer to Section 7 of this SDS (Handling and Storage).

Possible hazardous reactions:

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

Hazardous decomposition products:

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

11. Toxicological Information

- *Acute toxicity:*

Substance is of low toxicity after single ingestion. Virtually non-toxic after single skin contact.
Virtually non-toxic by inhalation.

LD₅₀ rat (*oral*) male / female: 4 400 mg/kg (OECD guideline 401)

LD₅₀ rat (*dermal* contact) male/female: > 5 000 mg/kg (OECD guideline 402)

LC₅₀ rat (*inhalation*) male/ female: Product has not been tested for this purpose.
0.36 mg/l 4 h (dust aerosol tested). Statement has been derived from the properties of the individual components.

- *Irritation effect:*

Skin irritant: Not a skin irritant. As tested on rabbits.

Eye irritant: Not irritating to the eyes (test animal: rabbit) and no serious damage to the eyes were perceived either.



- *Respiratory/ Skin sensitization:*

Assessment of sensitization: There is no evidence of a skin-sensitizing potential.

Skin sensitizing effects were not observed in animal studies (guinea pigs).

No skin-sensitizing potential observed.

- Germ cell mutagenicity, Carcinogenicity, Reproductive toxicity, developmental toxicity:

Results of the assessment of the above four points of importance:

The product has not been tested for these purposes. Thus the statement has been derived from the properties of the individual components.

Results: *Mutagenicity* – No genotoxic potential was determined.

Carcinogenicity – In long-term studies in rats, the substance induced thyroid tumours. The effect is caused by an animal specific mechanism, which has no human counterpart. Long-term studies on mice (fed with substance), a carcinogenic effect was not observed.

Reproductive toxicity – No indication was given of fertility being impaired by the substance.

Developmental toxicity- Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

- Repeated dosages of the substance fed to the test animals cause mortality and signs of neurotoxicity.

12. Ecological information

Ecotoxicity

Aquatic toxicity: Very toxic to aquatic life, with long lasting effects (product not tested for this as such, but statement was derived from properties of individual components).

Toxicity to fish:

Bluegill LC₅₀ (96 h) 0.0852 mg/l

Toxicity to aquatic invertebrates:

Daphnia magna/EC₅₀ (48 h): 0.19 mg/l

Mysidopsis bahia/ LC₅₀ (48h): 0.00017 mg/l

Toxicity to birds:

Japanese quail LD₅₀: 1 124 mg/kg

Persistence and degradability

Assessment biodegradation and elimination (H₂O):

The product has not been tested. The statement has thus been derived from the properties of the individual components.

Information on: Fipronil

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



Bio-accumulative Potential

Assessment bio-accumulative potential:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Fipronil

Bio-accumulation potential:

Bio-concentration factor: 321 – Lepomis macrochirus

Accumulation in organisms is not to be expected.

Mobility in soil (and other compartments if available)

Assessment transport between environmental compartments:

The product has not been tested. The statement has thus been derived from the properties of the individual components.

Information on: Fipronil

Assessment transport between environmental compartments:

Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is unlikely/ not expected.

Additional information

The product does not contain any substance/s that fulfill the **PBT** or **vPvB** criteria.

Product also does not contain any substance that might deplete the **ozone** layer.

Other eco-toxicological 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 best possible and disposed of in a similar way to that of the substance/product itself.

Destroy the empty container by perforating and flattening it and then dispose of it as toxic waste in accordance with local/international regulations. DO NOT re-use for any other purpose.



14. Transport information

- **Land transport**

ADR

UN no.: 2588
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (contains Fipronil)
Transport hazard class/es: 9, EHSM
Packing group: III
Environmental hazard: Yes
Special precautions for user: Tunnel code: E

RID

UN no.: 2588
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (contains Fipronil)
Transport hazard class/es: 9, EHSM
Packing group: III
Environmental hazard: Yes
Special precautions for user: None known

- **Inland waterway Transport**

ADN

UN no.: 2588
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (contains Fipronil)
Transport hazard class/es: 9, EHSM
Packing group: III
Environmental hazard: Yes
Special precautions for user: None known

- **Sea Transport**

IMDG

UN no.: 2588
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (contains Fipronil)
Transport hazard class/es: 9, EHSM
Packing group: III
Environmental hazard: Yes
Marine Pollutant: Yes
Special precautions for user: None known



- **Air Transport**

ICAO/IATA:

UN no.:	2588
UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (contains Fipronil)
Transport hazard class/es:	9, EHSM
Packing group:	III
Environmental hazard:	Yes
Special precautions for user:	None known

15. Regulatory information

UN no: 2588

WHO toxicity classification II (Moderately hazardous)

Risk-phrase(s): 23/24/25, 48/25 & 50/53

Safety-phrase(s): S 2, 3, 13, 24/25, 37 & 39

Aquatic chronic: Hazardous to the aquatic environment _ chronic

Acute tox. : Acute Toxicity

STOT RE: Specific Target Organ Toxicity – Repeated Exposure

- **Chemical Safety Assessment**

Advice on product handling can be found in Sections 7 & 8 of this SDS.

16. Other information

The data contained in this safety data sheet is based on our current knowledge and experience and describe the product only with regard to safety requirements. This SDS is neither a COA (Certificate of Analysis), nor technical data sheet and shall not be mistaken for a specification agreement either. The data does 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 this safety data sheet.

It is the responsibility of the recipient of the product to ensure any proprietary rights, existing laws and legislation are observed and adhered to.

