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# STARPLEX 83 CC

## Material Safety Data Sheet

Revised on: 1 June 2015

Revision number 2

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### 1. Substance/preparation and company identification

#### ADVANCED PASTE

Use: Public Health, Rodenticide

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

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### 2. Composition/information on ingredients

Chemical nature

Rodenticide, Bait, biocide

Hazardous ingredients

Contains: Difenacoum (Content (W/W): 0.005 %)

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### 3. Hazard identification

**Possible Hazards**

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

### 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.

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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:

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).

*Information on: Difenacoum*

*Treatment: Symptomatic treatment (decontamination, vital functions). Medical monitoring for at least 24-48 hours.*

**Antidote:** *Vitamin K1 preparation as antidote.*

## 5. Fire-fighting measures

Suitable extinguishing media:

Carbon dioxide, dry extinguishing media, water spray, foam

Special protective equipment:

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

Further information:

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

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

Methods for cleaning up or taking up:

For small amounts: Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Incinerate or take to a special waste disposal site in accordance with local authority regulations.

For large amounts: Pick up with suitable appliance and dispose of.

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

Handling

No special measures necessary if stored and handled correctly. If dead and/or dying rats or mice are found during and after the control program, these must be cleared away immediately in order

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to avoid secondary poisoning phenomena. Do not apply in the open (use bait boxes, bait cartons or foil bags).

Protection against fire and explosion:

The product is combustible but does not add to the spreading of fire nor is it explosive.

Storage

Segregate from foods and animal feeds.

Further information on storage conditions: Keep only in the original container in a cool, well-ventilated place. Keep container dry. Keep away from heat. Protect from direct sunlight. Protect against moisture.

Storage stability:

Storage duration: 24 Months

## 8. Exposure controls and personal protection

Personal protective equipment

Respiratory protection:

Respiratory protection not required.

Hand protection:

Although gloves are not required for the safe use of the product, they are recommended for protection against rodent-borne diseases.

Eye protection:

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

Body protection:

Body protection must be chosen based on level of activity and exposure.

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. 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:	Semi-solid
Colour:	blue
Odour:	fruity
Melting point:	not applicable
Flash point:	Substance/product is non-flammable.
Flammability:	not highly flammable
Self ignition:	not determined
Explosion hazard:	not explosive
Fire promoting properties:	not fire-propagating
Density:	1.05 g/cm <sup>3</sup> (approx. 20 °C)
Solubility in water:	insoluble
Partitioning coefficient n-octanol/water (log Pow):	not applicable

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## 10. Stability and reactivity

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.  
Hazardous reactions: No hazardous reactions if stored and handled as prescribed/indicated.  
The product is chemically stable.  
Hazardous decomposition products:  
No hazardous decomposition products if stored and handled as prescribed/indicated.

## 11. Toxicological information (active ingredient)

Assessment of acute toxicity:  
Virtually nontoxic after a single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact.

Experimental/calculated data (Based on actual product):  
LD50 rat (oral): 36,000 mg/kg

### Irritation

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

### Respiratory/Skin sensitization

Assessment of sensitization:  
No sensitizing effect.

### Other relevant toxicity information

Misuse can be harmful to health.

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*Below data has been derived from the properties of the individual components (Technical Difenacoum).*

*Information on: Difenacoum (Technical)*

*Experimental/calculated data:*

*LD50 rat (oral): 1.8 mg/kg*

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*Information on: Difenacoum (Technical)*

*Experimental/calculated data:*

*LC50 rat (by inhalation): 0.00346 - 0.005848 mg/l 4 h*

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*Information on: Difenacoum (Technical)*

*Experimental/calculated data:*

*LD50 rat (dermal): 63 mg/kg*

## 12. Ecological information

*Information on: Difenacoum*

*Toxicity to fish:*

*LC50 (96 h) 0.064 mg/l, Oncorhynchus mykiss*

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*Information on: Difenacoum*

*Aquatic invertebrates:*

*LC50 (48 h) 0.52 mg/l, Daphnia magna*

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*Information on: Difenacoum*

*Aquatic plants:*

*No observed effect concentration (72 h) 0.25 mg/l (growth rate), Pseudokirchneriella subcapitata*

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Assessment of terrestrial toxicity:  
Hazardous to birds and mammals.

**Persistence and degradability**

Assessment biodegradation and elimination (H<sub>2</sub>O):  
The product is virtually insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plants.

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**13. Disposal considerations**

Must be dumped 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  
Not classified as a dangerous good under transport regulations

RID  
Not classified as a dangerous good under transport regulations

**Inland waterway transport**

ADNR  
Not classified as a dangerous good under transport regulations

**Sea transport**

IMDG  
Not classified as a dangerous good under transport regulations

**Air transport**

IATA/ICAO  
Not classified as a dangerous good under transport regulations

**15. Regulatory information**

**Regulations of the European union (Labelling) / National legislation/Regulations**

**Regulations of the European union (Labelling) / National legislation/Regulations**

EEC Directives:  
The product does not require a hazard warning label in accordance with EC Directives.

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**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.

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