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# STARPLEX 83 CC

## Material Safety Data Sheet

Revised on: 1 January 2017

Revision number 3

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### 1. Substance/preparation and company identification

#### Ultrakill Rat and Mouse Liquid Bait

Use: Industrial, Domestic and Public Health

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, Liquid Bait

Hazardous ingredients

Component Name	CAS No.	Concentration	Classification
1. Difenacoum Technical Material	56073-07-05	0,8 g/l	T+;R26/27/28, T;R48/23/24/25, N;R50/53
N	Dangerous to the Environment		
T	Toxic		
T+	Very Toxic.		
R26/27/28	Very toxic by inhalation, in contact with skin and if swallowed.		
R48/23/24/25	Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.		
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.		

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### 3. Hazard identification

#### Main Hazards

Not classified as hazardous.

Avoid all contact by mouth.

Large quantities would need to be ingested to produce a toxic effect.

Practically non-hazardous by skin contact.

This product contains difenacoum, an indirect anticoagulant. Any signs of poisoning are unlikely to occur until 12-18 hours after exposure. Thereafter, they will develop progressively and may rapidly appear. Clinical signs result from an increased bleeding tendency and include: an increase in prothrombin time, bruising easily with occasional gum bleeding, blood in the stool or urine, excessive bleeding from minor cuts and abrasions, pale mouth and cold gums, anorexia and general weakness. More severe cases of poisoning include haemorrhage (usually internal) and shock. This product is hazardous to mammals, including domesticated animals, and birds. Exposure of non-target animals should be prevented.

### 4. First-aid measures

**First Aid – Eyes** Wash out eye with plenty of water. Obtain medical advice if necessary.

**First Aid – Skin** Wash skin with soap and water.

**First Aid - Ingestion** Do not induce vomiting. Wash out mouth with water. Obtain medical advice if necessary.

**First Aid – Inhalation** Remove from exposure. Obtain medical advice if necessary.

#### Advice to Physicians

Difenacoum is an indirect anticoagulant. Vitamin K1 (phytomenadione) is antidotal. Other forms of Vitamin K are not effective.

In the case of suspected poisoning, determine prothrombin time up to 48 hours after exposure. If elevated, administer Vitamin K1, 10-20 mg (0,25 mg/kg for children) by slow intravenous injection, and continue until prothrombin time stabilises. Continue treatment with an oral Vitamin K1 dose of 10 mg four times per day until the prothrombin time has remained normal for three days. Further treatment, an oral dose of 10 mg twice daily, may be required for up to several months. Prothrombin time should be checked 24-hours, 3 days and 1 week after the last dose of Vitamin K1 before a decision is made to stop treatment.

### 5. Fire-fighting measures

This product is non-flammable, but is combustible.

**Extinguishing Media** Use water spray, foam, dry chemical or carbon dioxide. Cool the smouldering material with water spray to minimise the possibility of re-ignition. Keep containers and surroundings cool with water spray.

Protective Equipment for

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Fire-fighting                      Wear self-contained breathing apparatus.

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## 6. Accidental release measures

Spillages                              Any spillages should be cleared up immediately and disposed of safely.  
  
    Wash contaminated surfaces with detergent solution.

### 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:

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.

## 7. Handling and storage

Storage                                Store in original container under cool and dry conditions in a secure, well ventilated place, inaccessible to children and away from food, animal feedstuffs and products which may have an odour.

Handling                              The product must be used only in accordance with the label.

Avoid contact with eyes, skin and clothing.

Refer also to the section 'Exposure Controls/Personal Protection'.

## 8. Exposure controls and personal protection

### Occupational Exposure Standards

1.            Difenacoum Technical                      None assigned.

### Material

Exposure controls should be implemented with due regard to the hierarchy of controls (elimination, substitution, local exhaust ventilation, operating procedures and Personal Protective Equipment (PPE)). PPE should only be used as a last resort where exposure cannot be controlled by other means.

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

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## 9. Physical and chemical properties

Physical State	Liquid.
Colour	Blue.
Odour	No significant odour.
Relative Density	ca. 0.75
Flammability	Not flammable.
Solubility in Water	Insoluble.
Explosive Properties	None
Oxidising Properties	None

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## 10. Stability and reactivity

Acute Toxicity	Oral LD50 (rat) 36000 mg/kg
Irritancy – Eyes	Not an eye irritant.
Irritancy – Skin	Not a skin irritant.
Skin Sensitisation	Studies have not revealed any evidence of skin sensitisation effects.

## 11. Toxicological information (active ingredient)

*Information on: Difenacoum*  
*Experimental/calculated data:*  
*LD50 rat (oral): 1.8 mg/kg*  
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*Information on: Difenacoum*  
*Experimental/calculated data:*  
*LC50 rat (by inhalation): 0.00346 - 0.005848 mg/l 4 h*  
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*Information on: Difenacoum*  
*Experimental/calculated data:*  
*LD50 rat (dermal): 63 mg/kg*  
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### **Irritation**

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

### **Respiratory/Skin sensitization**

Assessment of sensitization:

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No sensitizing effect.

**Other relevant toxicity information**

Misuse can be harmful to health.

**12. Ecological information**

Ecotoxicity                      This product is hazardous to mammals, including domesticated animals and birds. Exposure of non-target animals should be prevented.

*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*

Assessment of terrestrial toxicity:  
Hazardous to birds and mammals.

**Persistence and degradability**

*Information on: Difenacoum*

*Assessment biodegradation and elimination (H<sub>2</sub>O):*

*Not readily biodegradable (by OECD criteria).*

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**13. Disposal considerations**

Product Disposal                      The best means of disposal of any product is through proper use according to the label. This product must be disposed of as controlled waste.

Container Disposal                      This container must be disposed of as controlled waste. Any disposal must comply with Local and National Requirements. Refer also to relevant SA provisions.

**14. Transport information**

Non-hazardous                      Non-hazardous for transport.

**15. Regulatory information**

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

Intended Use

FOR USE ONLY AS A RODENTICIDE

The product must be used only in accordance with the label.

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## **16. Other information**

For use only as specified on the label.

This product contains a human taste deterrent and warning dyes. The human taste deterrent is included at a concentration that is repulsive to human taste, but is not detected by rats or mice.

The information in this data sheet should be considered when undertaking a risk assessment. A data sheet does not constitute a risk assessment.

This data sheet was prepared in accordance with the European Directive 91/155/EC as amended by 93/112/EC and 2001/58/EC.

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