

STARPLEX 83 CC

Material Safety Data Sheet

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

1.1 Product Name: Ultrakill Rat and Mouse Grain Bait

1.2 Use: Public Health

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

NON-HAZARDOUS SUBSTANCE, NON-DANGEROUS GOODS

3. COMPOSITION INFORMATION ON INGREDIENTS:

CAS NO	HAZARDOUS COMPONENT	CONCENTRATION	GHS CLASSIFICATION
90035-08-8	Flocoumafen	0.005 %	H300: Fatal if swallowed H310: Fatal in contact with skin H330: Fatal if inhaled

4. FIRST AID MEASURES:

4.1 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, seek medical attention.

On skin contact: Wash thoroughly with soap and water.

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: Rinse mouth immediately and then drink plenty of water, seek medical attention. Never induce

vomiting or give anything by mouth if the victim is unconscious or having convulsions. Do not induce vomiting unless told to by a poison control center or doctor.

4.2 Note to physician:

Symptoms: Tiredness, loss of appetite, coagulation disorders
Hazards: The product contains a blood coagulation inhibitor.
Treatment: Symptomatic treatment (decontamination, vital functions).
Antidote: Vitamin K1 preparation as antidote.

5. FIRE FIGHTING MEASURES:

5.1 Suitable extinguishing media:

Dry powder, foam, water spray

5.2 Unsuitable extinguishing media for safety reasons:

Carbon dioxide

5.3 Specific hazards:

Carbon monoxide, hydrogen fluoride, carbon dioxide, nitrogen oxides, toxic gas
The substances/groups of substances mentioned can be released in case of fire.

5.4 Special protective equipment:

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

5.5 Further information:

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

6. ACCIDENTAL RELEASE MEASURES:

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. Avoid dust formation.

6.2 Environmental precautions:

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

6.3 Methods for cleaning up or taking up:

For small amounts: Contain with dust binding material and dispose of.

For large amounts: Sweep/shovel up.

For residues: Contain with dust binding material and dispose of. Avoid raising dust. 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:

7.1 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 to avoid secondary poisoning phenomena. Do not apply in the open – cover bait points or use bait boxes. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. Ensure thorough ventilation of stores and work areas.

7.2 Protection against fire and explosion:

Avoid dust formation. Dust can form an explosive mixture with air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

7.3 Storage:

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect against moisture. Protect from direct sunlight.

7.4 Storage stability:

Protect from temperatures above: 30 °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 CONTROL AND PERSONAL PROTECTION:

8.1 Components with workplace control parameters:

No exposure standard allocated

8.2 Personal protective equipment

Respiratory protection: Respiratory protection not required.

Hand protection: Protective gloves (EN 374) are required for the safe handling of this product and are also recommended for protection against rodent-borne diseases. e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other Manufacturer's directions for use should be observed because of great diversity of types.

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).

8.3 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: Solid block, wax
Colour: Blue
Odour: Pleasant odour

10. STABILITY AND REACTIVITY:

10.1 Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

10.2 Substances to avoid: No substances known that should be avoided.

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

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

11. TOXICOLOGICAL INFORMATION:

11.1 Based on Formulated Product

Acute toxicity

LD50 rat (oral): > 5000 mg/kg
LD50 rat (dermal): > 5000 mg/kg (Contact limited due to the physico-chemical properties of the product)
LC50 rat (by inhalation): Not inhalable due to the physico-chemical properties of the product.

Irritation

Primary skin irritation rabbit: non-irritant (product)
Primary irritations of the mucous membrane rabbit: non-irritant (product)

Based on Technical material

Acute toxicity

Information on: Flocoumafen Technical

LD50 rat (oral): 0.25 mg/kg
LD50 rat (dermal): > 3 mg/kg
LC50 rat (by inhalation): 0.16 – 1.4 mg/l / hour

Irritation

Primary skin irritation rabbit: non-irritant (product)
Primary irritations of the mucous membrane rabbit: non-irritant (product)

Assessment other acute effects:

The available information is not sufficient for evaluation.

Sensitization

Modified Buehler test guinea pig: Skin sensitizing effects were not observed in animal studies.

Other relevant toxicity information:

Misuse can be harmful to health.

12. ECOLOGICAL INFORMATION:

12.1 Ecotoxicity

Toxicity to fish:

LC50 (96 h) 0.17 mg/l, Bluegill Sunfish

LC50 (96 h) 0.051 mg/l, Rainbow Trout

Toxicity to birds:

LD50 >300 mg/l, Quail

LD50 > 24 mg/l, Mallard Duck

Information on: Flocoumafen

Aquatic invertebrates:

LC50 (48 h) 0.34 mg/l, Daphnia magna

12.2 Persistence and degradability

Information on: Flocoumafen

Assessment biodegradation and elimination (H2O):

Not readily biodegradable (by OECD criteria).

Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

Major metabolites

4-Hydroxycoumarin and Bromobiphenyl dihydronaphthalene fraction

DT50 (days) - 50 days

13. DISPOSAL CONSIDERATIONS:

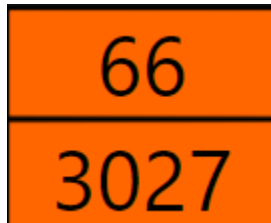
Destroy empty container by perforation or flattening, and do not use for any other purpose. Product should be utilized completely to avoid disposal. If not possible, dispose of at an appropriate waste disposal facility, in accordance with current applicable laws and regulations.

14. TRANSPORT INFORMATION:

UN No.	3027
NAME and description	COUMARIN DERIVATIVE PESTICIDE, SOLID, TOXIC
Class	6.1
Classification code	T7
Packing group	I
Labels	6.1



Hazardous Identification Number:



15. REGULATORY INFORMATION:

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

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

15.2. Chemical Safety Assessment

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

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.