

STARPLEX 83 CC

Material Safety Data Sheet

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

1.1 Product Name:

Ultramatic Fly Killer

1.2 Use: Public Health / Industrial

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 GHS Label elements, including precautionary statements

Flammable Aerosols Category 2



GHS02: Flammable

2.2 HAZARD STATEMENTS

H410 Very toxic to aquatic life with long lasting effects.

2.3 PRECAUTIONARY STATEMENTS

P273 Avoid release to the environment.

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P305+351+338+313 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Get medical advice/attention.

P391 Collect spillage.

P403+233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with local regulations.

P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P331 Do NOT induce vomiting.

P332+313 If skin irritation occurs: Get medical advice/attention.

P405 Store locked up.

3. COMPOSITION INFORMATION ON INGREDIENTS:

3.1 Mixtures

Chemical nature: Insecticide

3.2. Mixtures

| CAS NO | HAZARDOUS COMPONENT | CONCENTRATION | GHS CLASSIFICATION |
|-----------|------------------------|---------------|---|
| 8003-34-7 | Pyrethrins | >1.5 % | <p>H302 (96.86%): Harmful if swallowed [Warning Acute toxicity, oral]</p> <p>H312 (96.86%): Harmful in contact with skin [Warning Acute toxicity, dermal]</p> <p>H332 (99.37%): Harmful if inhaled [Warning Acute toxicity, inhalation]</p> <p>H400 (97.48%): Very toxic to aquatic life [Warning Hazardous to the aquatic environment, acute hazard]</p> <p>H410 (96.23%): Very toxic to aquatic life with long lasting effects [Warning Hazardous to the aquatic environment, long-term hazard]</p> |
| 51-03-6 | Piperonyl Butoxide | >15 % | <p>H400 (93.6%): Very toxic to aquatic life [Warning Hazardous to the aquatic environment, acute hazard]</p> <p>H410 (95.2%): Very toxic to aquatic life with long lasting effects [Warning Hazardous to the aquatic environment, long-term hazard]</p> |
| 64-17-5 | Alcohol | >34 % | H225: Highly Flammable liquid and vapor [Danger Flammable liquids] |
| 74-98-6 | Hydrocarbon propellant | >45 % | H220: Extremely flammable gas [Danger Flammable gases] |

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, 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.
- 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.
- 4.2 Note to physician:**
- Treatment:** Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. FIRE FIGHTING MEASURES:

Flammable gas under pressure.

Flashpoint of propellant: 60 °C

Violent rupture of containers involved in a fire, possible. Vapours of propellant are heavier than air, may travel along the ground and be ignited at remote location and flash back.

5.1 Suitable extinguishing media: Water spray, water fog, carbon dioxide, foam

5.2 Specific hazards:

Special protective equipment: Wear self-contained breathing apparatus and chemical-protective clothing. Water fog to be used to keep undamaged containers cool in a fire.

Skin contact with liquid propellant may cause frostbite and serious corneal damage. High airborne concentrations of propellant may cause irritation to eyes and skin. The propellant reacts vigorously with oxidising agents. No unprotected person should be allowed in this vicinity. Evacuation of area may be necessary in a fire. Water spray must be used to disperse accumulating vapour punctured cans. Contain liquid run-off with temporary earth barriers. The material is toxic to fish, bees and other beneficial insects.

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:

6.1 Personal precautions:

Use personal protective clothing. Avoid contact with the skin, eyes and clothing. Remove contaminated clothes, undergarments and shoes immediately.

For large amounts: Dike spillage. Pump off product. Cleaning operations should be carried out only while wearing breathing apparatus. Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labelled 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. Ensure thorough ventilation of stores and work areas.

7.2 Protection against fire and explosion:

The product is combustible. Vapours may form ignitable 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:

Storage duration: 24 Months

Protect from temperatures above: 50 °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:

Personal protective equipment:

8.1 Respiratory protection:

Breathing protection if gases/vapours are formed. Wear respiratory protection if ventilation is inadequate. Adequate ventilation. Wash exposed skin area, face and hands after use.

8.2 General safety and hygiene measures:

Take off immediately all contaminated clothing. 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: | Liquid contained under pressure in an aerosol can. |
| Colour: | Clear light brown |
| Odour: | Chemical odour |
| Flash point for solvent: | 65-70 °C |
| Flash point for propellant: | 60 °C |
| Solubility: | Pyrethrins are readily insoluble in water, miscible with most organic solvent. |

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 prescribed/indicated.

11. TOXICOLOGICAL INFORMATION:

11.1 Toxicological information on Pyrethrins:

| | |
|-------------------------------|--------------|
| Acute Oral LD50: | 2370 mg/kg |
| Acute Dermal LD50 : | 1500 mg/kg |
| Acute Inhalation LC50: | 3.4 mg/l air |

11.2 Toxicological information on Piperonyl Butoxide:

| | |
|-------------------------------|--------------|
| Acute Oral LD50: | 7500 mg/kg |
| Acute Dermal LD50: | 7950 mg/kg |
| Acute Inhalation LC50: | 5.9 mg/l air |

11.3 Toxicological information on Propanol:

| | |
|-------------------------------|--------------|
| Acute Oral LD50: | 5840 mg/kg |
| Acute Dermal LD50: | 16400 mg/kg |
| Acute Inhalation LC50: | 10 000 mg/kg |

11.4 Toxicological information on Hydrocarbon Propellant :

| | |
|-------------------------------|---------------|
| Acute Oral LD50 : | 4820 mg/kg |
| Acute Dermal LD50: | 2000 mg/kg |
| Acute Inhalation LC50: | 5.04 mg/l air |

11.5 Formulated product toxicity:

| | |
|-------------------------------|-------------------|
| Acute Oral LD50: | 562 084,201 mg/kg |
| Acute Dermal LD50: | 364 166,548 mg/kg |
| Acute Inhalation LC50: | 839,242 mg/l air |

12. ECOLOGICAL INFORMATION :

Ecotoxicity:

Pyrethrin

Toxicity to fish:

Coho Salmon/LC50 (96 h): 39 mg/l

Channel cat fish LC50 (96 h): 114 mg/l

Piperonyl butoxide

Carp LC50(24): 5.3mg/l

Very little risk is expected due to the low solubility in water and rapid degradation in sunlight.

Aquatic invertebrates:

Daphnia magna/EC50 (48 h): 0.06 mg/l

Toxicity to birds:

Mallard duck LD50 : >2150mg/kg

Bobwhite quail LD50: >1828mg/kg

Persistence and degradability:

Pyrethrins are rapidly degraded in sunlight by photolysis, the half life is about 10 mins.

Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

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.

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

14. TRANSPORT INFORMATION:

UN Number: 1950

Class: 2.1

Packing group: III

Proper Shipping Name: Aerosols, Flammable

IMDG: 2013

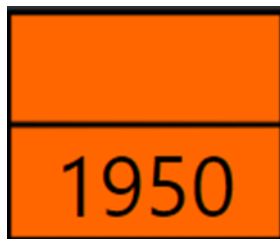
Ems: 2-13

MFAG: 620
Subsidiary risk: -
Declaration for land shipment: 1950 AEROSOLS, flammable
Declaration for sea shipment: 1950 AEROSOLS, flammable
Declaration for shipment by air: 1950 AEROSOLS, flammable

Labels:



Hazard 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.