

STARPLEX 83 CC

Material Safety Data Sheet

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

1.1 Product Name: Coopers Promethrin EC

1.2 Use: Public Health, Home use, 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 Classification of the substance or mixture

Aspiration hazard:	Category 1
H304	May be fatal if swallowed and enters airways.
Acute toxicity:	Category 4
H302	Harmful if swallowed.
Acute toxicity:	Category 4
H332	Harmful if inhaled.
Skin sensitisation:	Category 1
H317	May cause an allergic skin reaction.
Acute aquatic toxicity:	Category 1
H400	Very toxic to aquatic life.
Chronic aquatic toxicity:	Category 1
H410	Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Hazard label for supply/use required.

Hazardous components which must be listed on the label:



Signal word:

Danger

Hazard statements

- H304 May be fatal if swallowed and enters airways.
- H302 Harmful if swallowed.
- H332 Harmful if inhaled.
- H317 May cause an allergic skin reaction.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

- P261 Avoid breathing mist and spray.
- P271 Use only outdoors or in a well-ventilated area.
- P264 Wash hands thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves.
- P304 + P340 IF INHALED:
Remove person to fresh air and keep comfortable for breathing.
- P312 Call a POISON CENTER/doctor/physician if you feel unwell.
- P301 + P310 IF SWALLOWED:
Immediately call a POISON CENTER/doctor/ physician.
- P302 + P352 IF ON SKIN:
Wash with plenty of water.
- P330 Rinse mouth.
- P331 Do NOT induce vomiting.
- P333 + P313 If skin irritation or rash occurs:
Get medical advice/ attention.
- P363 Wash contaminated clothing before reuse.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local regulation.

2.3 Other hazards

No other hazards known.

3. COMPOSITION INFORMATION ON INGREDIENTS:

CAS NO	HAZARDOUS COMPONENT	CONCENTRATION	GHS CLASSIFICATION
52645-53-1	Permethrin	10 %	Specific Target Organ Toxicity: Respiratory Irritation, Category 3 Dermal: Category 3

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). The product contains a pyrethroid and must not be confused with organophosphorous compounds

5. FIRE FIGHTING MEASURES:

- 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.
Decomposes in a fire to emit toxic fumes of Cl- .
- 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.
- 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:** 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 breathing apparatus. 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. 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: 40 °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 Personal protective equipment

Respiratory protection:

Breathing protection if gases/vapours are formed. Wear respiratory protection if ventilation is inadequate. Gas filter EN141 Type A for gases/vapours of organic compounds (boiling point >65 °C).

Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other.

Eye protection:

Tightly fitting safety goggles (splash goggles) (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 DIN-EN 465).

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
Colour:	Clear golden brown
Odour:	Slight chemical odour
Specific gravity:	1.29 g/ml
Flash point:	55 °C
Solubility in water:	Miscible in water

10. STABILITY AND REACTIVITY:

- 10.1 Stability:** Ultrakill Industrial Mothproofer is stable in acid dye bath for several hours.
- 10.2 Degradation:** For permethrin in soil and water, degradation is rapid. Half-life in soil less than 38 days.
- 10.3 Conditions to avoid:** Extremes of temperature and direct sunlight.

Non-hazardous reactions when stored and handled according to prescribed instructions.

11. TOXICOLOGICAL INFORMATION:

11.1 Toxicity Permethrin:

Acute Oral LD50:	4000 mg/kg
Acute Dermal LD50:	2500 mg/kg
Acute inhalation LC50:	685 mg/l air

11.2 Formulated product toxicity:

Acute Oral LD50:	40 000 mg/kg
Acute Dermal LD50:	25 000 mg/kg
Acute Inhalation LC50:	685 mg/l air

12. ECOLOGICAL INFORMATION:

12.1 Ecotoxicity

Toxicity to fish:

Rainbow trout/LC50 (96 h):	0.009 mg/l
Bluegill LC50 (96 h):	1.8 µg/l

12.2 Aquatic invertebrates:

Daphnia magna/LC50 (48 h):	0.6 µg/l
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12.3 Toxicity to birds:

Mallard duck LD50 :	>9800mg/kg
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12.4 Persistence and degradability

Degradation in soil and water are rapid.

12.5 Additional information

Other ecotoxicological advice:

Do not discharge product into the environment.

13. DISPOSAL CONSIDERATIONS:

Must be dumped or incinerated in accordance with local regulations.

13.1 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 No.: 3082
Proper Shipping Name: Environmentally Hazardous
Class: 9
Packing group: III

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.