

STARPLEX 83 CC

Revised on: 12/12/2024
Revision number: 5
Next revision: December 2027
Coopers Promethrin EC

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Coopers Promethrin EC

Use: Public Health / Farming / Industrial / Pest Control

Company Name:

Starplex 83 CC
Reg. No. 2004/01564/23
P.O. Box 14374
BREDELL 1623
SOUTH AFRICA
TEL: (011) 979-4246/7

Emergency Contact Numbers:

Griffon Poison Information Centre: (+27) 82 446 8946
Poison Information Centre: 0861 555 777

2. HAZARD IDENTIFICATION

SANS 10234:2008, Regulation EC 1272/2008 [EU-GHS/CLP]		
Hazard classes	Hazard categories	Hazard codes
Acute toxicity (oral)	Category 5	H303
Aspiration hazard	Category 1	H304
Skin sensitisation	Category 1	H317
Aquatic Chronic	Category 1	H410

Hazard pictograms:



Signal word: Danger

Hazard statements:

H303: May be harmful if swallowed.
H304: May be fatal if swallowed and enters airways.
H317: May cause an allergic skin reaction.
H410: Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P272: Contaminated work clothing should not be allowed out of the workplace.
P273: Avoid release to the environment.

STARPLEX 83 CC

Revised on: 12/12/2024
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Next revision: December 2027
Coopers Promethrin EC

SAFETY DATA SHEET

P280: Wear protective gloves.
P301+P316: IF SWALLOWED: Get emergency medical help immediately.
P302+P352: IF ON SKIN: Wash with plenty of water and non-abrasive soap.
P331: Do NOT induce vomiting.
P333 + P317: If skin irritation or rash occurs: Get medical help.
P362 + P364: Take off contaminated clothing and wash it before reuse.
P391: Collect spillage.
P405: Store locked up.
P501: Dispose of content/container to suitable landfill in accordance with local regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS :

Substance / Mixture: Mixture

Composition

CHEMICAL NAME	CAS NO	CONCENTRATION	GHS CLASSIFICATION
Permethrin	52645-53-1	10 %	Acute Tox. 4 (oral) (H302) Skin Sens. 1 (H317) Acute Tox. 4 (inhalation) (H332) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Solvent 150	64742-94-5	> 60%	Aspiration Tox. 1 (H304)

4. FIRST AID MEASURES:

General advice: Avoid contact with skin, eyes and clothing. Remove contaminated clothing and wash before reuse.

Skin contact: Wash with plenty of water and non-abrasive soap. If skin irritation or rash occurs: get medical help.

Eye contact: Rinse cautiously with water for several minutes under running water with eyelids held open. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice.

Ingestion: Immediately rinse mouth and then drink plenty of water. Do NOT induce vomiting. Get emergency medical help immediately.

Inhalation: Remove patient from source of poisoning to a well-ventilated area. Seek medical attention if the patient feels unwell.

Note to physician: Treat according to symptoms (decontamination, vital functions). The product contains a pyrethroid and must not be confused with organophosphorous compounds.

5. FIRE FIGHTING MEASURES:

Suitable extinguishing media: Use carbon dioxide (CO₂) or dry chemical for small fires and water spray, fog or standard foam for large fires.

Unsuitable extinguishing media: High volume water jet. Use a water jet only to cool heated containers.

STARPLEX 83 CC

Revised on: 12/12/2024
Revision number: 5
Next revision: December 2027
Coopers Promethrin EC

SAFETY DATA SHEET

Specific hazards: In the event of fire, gaseous oxides of carbon and toxic fumes of chlorine may be released.

Special fire-fighting procedures: Fight fire from maximum distance. Remain upwind of fire and keep out of low areas. Avoid inhaling hazardous vapors and fumes from burning materials. Move containers from fire area if you can do it without risk. Cool containers that are exposed to flames with water until well after the fire is out. Do not use high volume jet, due to contamination risk. Do not scatter the burning material. Water can be used to cool unaffected containers but must be contained for later disposal. Do not allow extinguishing water to reach sewage or effluent systems. Keep unnecessary people away; isolate hazard area and deny entry.

Personal protective equipment: Wear NIOSH / MSHA positive pressure self-contained breathing apparatus (SCBA) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions: Use personal protective clothing. Avoid contact with the skin, eyes and clothing. Remove contaminated clothing and wash before reuse.

Protective equipment: Wear protective gloves and chemical safety goggles. If conditions warrant, wear a positive pressure NIOSH approved self-contained breathing apparatus, or respirator.

Emergency procedures: Alert firefighting personnel and evacuate unprotected personnel.

Environmental precautions: Avoid release to the environment, especially water sources, due to aquatic toxicity.

Methods and Materials for containment: Dike spillage and collect with suitable absorbent material (e.g. sand, sawdust or general-purpose binder). Place in closed and suitable containers for disposal.

Methods and Materials for clean-up: Soak up spillage with dry sand, shovel up carefully and place the material in a clean, dry and sealable container. Label container with the contents and dispose of as for toxic waste in accordance with local/national regulations. DO NOT burn. To decontaminate the spill area, tools and equipment, wash with water and suitable detergent. Collect wash water and add to the drums already collected. Do not flush spilled material or wash water into drains or waterways.

7. HANDLING AND STORAGE:

Handling:

Precautions for safe handling: May cause an allergic skin reaction. May be fatal if swallowed and enters airways. Ensure adequate ventilation during handling and use. Immediately clean up spills that occurs during handling. In case of contact with the product refer to First Aid Measures – Section 4.

General occupational hygiene: Practice good hygiene when using this material. Wash hands before eating, drinking, chewing gum, smoking, using the toilet or applying cosmetics. Worker should shower at the end of each workday. Launder all clothing before it is re-used.

Storage:

Conditions for safe storage: Keep under lock and key and out of reach of unauthorised persons, children and animals. Store in its original, labelled container, tightly closed in a dry, cool and well-ventilated area. Do not store near heat, open flame, sources of ignition or hot surfaces. Not to be stored next to foodstuffs, feed and water supplies. Avoid cross contamination with other pesticides and fertilizers.

Incompatible substances and mixtures: None known.

Packaging material: High density polyethylene plastic drums.

STARPLEX 83 CC

Revised on: 12/12/2024
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Next revision: December 2027
Coopers Promethrin EC

SAFETY DATA SHEET

8. EXPOSURE CONTROL AND PERSONAL PROTECTION:

Permissible concentration: No occupational exposure limits have been determined for the significant ingredients in this product.

Engineering controls: It is essential to provide adequate ventilation. The measures appropriate for a particular worksite depend on how this material is used and on the extent of the exposure. Local exhaust: Provide general or local exhaust ventilation systems to maintain airborne concentrations at a minimum. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire and other applicable regulations.

Personal protective equipment:

Respiratory protection: If used in poorly ventilated areas, use a NIOSH approved, positive pressure self-contained breathing apparatus (SCBA).

Skin and body protection: Use protective gloves, coveralls and rubber boots to prevent repeated or prolonged skin contact with the product.

Eye protection: The use of chemical safety goggles is recommended to protect against eye contact. Contact lenses are not protective eye devices.

Emergency eyewash: Have an eye wash fountain readily available in the immediate work area for emergency use.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: Clear golden brown liquid.

Odour: Slight chemical odour.

Odour threshold: Not known.

pH: Not established.

Melting point: Not available.

Freezing point: Not available.

Boiling point: Not available.

Flash point: 55 °C

Flammability: Flammable.

Upper / lower explosion limits: Not available.

Vapour pressure: Not established.

Relative vapour density: Not available.

Density / relative density: 1.29 g/mL.

Solubility: Miscible in water.

n-octanol / water partition coefficient: Not available.

Auto-ignition temperature: Not available.

Decomposition temperature: Not available.

Viscosity: Not applicable.

10. STABILITY AND REACTIVITY:

Chemical stability: The product is stable for two years at ambient temperature and pressure, under normal storage and handling conditions. Avoid storage under extreme temperatures and conditions. Store below 30 °C and avoid prolonged periods in direct sunlight.

Reactivity: None known.

STARPLEX 83 CC

Revised on: 12/12/2024
Revision number: 5
Next revision: December 2027
Coopers Promethrin EC

SAFETY DATA SHEET

Possible hazardous reactions: None known.

Conditions to avoid: Keep away from heat, flames and sources of ignition.

Incompatible materials: None known.

Hazardous decomposition products: In the event of fire, gaseous oxides of carbon and toxic fumes of chlorine may be released.

11. TOXICOLOGICAL INFORMATION:

ACUTE TOXICITY

Calculated according to GHS:

Oral LD₅₀: > 4500 mg/kg (rat)

Dermal LD₅₀: No information

Inhalation LC₅₀: > 13.6 mg/ℓ/4 hr (rat)

Skin irritation / corrosion: Not calculated.

Eye damage / irritation: Not calculated.

Skin sensitization: May cause an allergic skin reaction.

Respiratory sensitization: Not calculated.

Germ cell mutagenicity: Not calculated.

Carcinogenicity: Not calculated.

Reproductive toxicity: Not calculated.

Specific target organ toxicity – single exposure: Not calculated.

Specific target organ toxicity – repeat exposure: Not calculated.

Aspiration toxicity: May be fatal if swallowed and enters airways.

Chronic effects: Not available.

POTENTIAL ADVERSE EFFECTS:

Skin contact: May cause an allergic skin reaction.

Other information: May be fatal if swallowed and enters airways.

12. ECOLOGICAL INFORMATION:

ECOTOXICITY DATA:

For active ingredient - Permethrin:

Fish

LC₅₀ (96 h) Rainbow trout 2.5 µg/ℓ

LC₅₀ (48 h) Bluegill sunfish 1.8 µg/ℓ

Birds

LD₅₀ Mallard ducks > 9 800 mg/kg

LD₅₀ Japanese quail > 13 500 mg/kg

Bees

Permethrin is toxic to bees.

LD₅₀ (24 h) (oral) 0.098 µg/bee

LD₅₀ (24 h) (topical) 0.029 µg/bee

STARPLEX 83 CC

Revised on: 12/12/2024
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Coopers Promethrin EC

SAFETY DATA SHEET

Daphnia

LC₅₀ (48 h)

0.6 µg/ℓ

ENVIRONMENTAL EFFECTS:

Based on information for the active ingredient:

Plants: The half-life of permethrin on plant foliage varies depending on the species. The approximate range is from one to three weeks.

Persistence and degradability: In soil and water, degradation of permethrin is rapid. DT₅₀ in soil is < 38 days (pH 4.2 – 7.7, organic matter 1.3 – 51.3 %).

Bio-accumulative potential: Permethrin can bioaccumulate in aquatic ecosystems.

Mobility in soil: Permethrin binds tightly to soil particles and due to its low water solubility, it is not mobile in soil.

Other adverse effects: EHC 94 concludes that permethrin is not like to be a hazard to the environment when used as recommended.

13. DISPOSAL CONSIDERATIONS:

Waste: Open dumping, burying or burning of this product is prohibited. Waste resulting from the use of this product cannot be reused or re-processed. Do not contaminate rivers, dams or any other water sources with the product or used containers.

Container: Empty pesticide aerosol canisters cannot be cleaned effectively and can contain traces of active ingredients. It is thus categorized as hazardous waste. Burying or burning of empty plastic drums is a criminal offense. Disposal of empty plastic drums should be in accordance with local legal provisions.

14. TRANSPORT INFORMATION:

UN Number: 3082

Road Transport ADR / ORD:

Class: 9

Packaging group: III

UN Proper Shipping Name: Environmentally hazardous substance, liquid, N.O.S.

Maritime Transport IMDG / IMO:

Class: 9

Packaging group: III

UN Proper Shipping Name: Environmentally hazardous substance, liquid, N.O.S.

Marine pollutant: Yes

Air Transport IATA / ICAO:

Class: 9

Packaging group: III

UN Proper Shipping Name: Environmentally hazardous substance, liquid, N.O.S.

Special / Environmental Precautions: Wedge drums tightly to avoid movement.

Transport in bulk: Refer to MARPOL 73/78, Annex II and the IBC code.

STARPLEX 83 CC

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SAFETY DATA SHEET

15. REGULATORY INFORMATION:

Safety, health and environmental regulations / legislation for the mixture:

OSHA 2021 Regulations for Hazardous Chemical Substances.

Relevant information regarding the restrictions: None.

EU Regulation: Regulation EC1272/2008 (EU-GHS/CLP).

Other national regulations: None.

Chemical Safety Assessment carried out? No.

16. OTHER INFORMATION:

Packaging: Packed in 325 ml metal aerosol canisters with total release actuator and labelled according to South African regulations and guidelines.

Other hazard statements, abbreviations and explanations:

H302: Harmful if swallowed.

H332: Harmful if inhaled.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

IATA: International Air Transport Association.

IBC: International Bulk Chemical.

ICAO: International Civil Aviation Organization.

IMDG: International Maritime Dangerous Goods.

IMO: International Maritime Organization.

LD₅₀ value: The median lethal dose or the amount of a toxic agent that is sufficient to kill 50 percent of a population within a certain period of time.

OEL/RL: Occupational exposure limit-recommended limit.

PEL: Permissible exposure limits.

TWA: Time-weighted average – the average exposure over a specified period, usually a nominal eight hours.

ST/STEL: Short-term exposure limits.

STOT: Single target organ toxicity.

Disclaimer:

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 information on this sheet is not a specification; it does not guarantee specific properties. 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. All information is given in good faith but without guarantee in respect of accuracy, and no responsibility is accepted for errors and omissions or the consequence thereof. 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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