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# STARPLEX 83 CC

## Material Safety Data Sheet

Revised on: 1 January 2017

Revision number 4

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### 1. Substance/preparation and company identification

#### PCO FLUSHING AGENT

Use: Home, Industrial use, Public Health, Insecticide

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

Aerosol (AE)

Hazardous ingredients

Pyrethrins 4 g/kg  
CAS Number: [8003-34-7]

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### 3. Hazard identification

Flammable aerosol  
Flammable gas under pressure.  
Violent rupture of containers involved in a fire, possible.  
May be hazardous if inhaled, swallowed and/or on skin contact.  
Contact with liquid/spray mist may cause irritation to eyes and skin.  
Allergic respiratory symptoms may develop after several hours.  
The product is toxic to fish, bees and other useful insects.

On skin contact:  
Avoid skin contact.

On contact with eyes:  
Avoid eye contact of spray mist or liquid contents.

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On ingestion:

Ingestion unlikely. For ingestion of slightly contaminated food, rinse mouth with water; generally does not require further treatment. If the liquid contents have been ingested the main hazard resides in the solvent.

Note to physician:

No specific antidote known. Symptomatic and supportive treatment as indicated.

#### 4. First-aid measures

Inhalation:

Remove patient from source of exposure to well-ventilated area and keep him quiet and reassured. If not breathing, administer artificial respiration (to be administered by trained personnel), if breathing is difficult give oxygen. DO NOT apply direct mouth to mouth respiration, use a disposable protective mouthpiece.

Skin contact:

Remove contaminated clothing, rinse the affected skin area with plenty of soap and cool water or shower, continue to wash for 10 minutes. Obtain medical attention if excessively exposed to propellant and redness and blistering occurs and persists. Wash contaminated clothing before re-use.

Eye contact:

Immediately wash eyes with copious amounts of clean water for at least 15 minutes, cover with a sterile dressing, and get medical attention.

Ingestion:

Keep patient calm and reassured, rinse mouth with water. Never give anything by mouth to an unconscious person.

DO NOT apply direct mouth to mouth respiration, use a disposable protective mouthpiece.

**Seek medical advice promptly and show this MSDS to a medical practitioner**

Note to physician: No specific antidote known. Symptomatic and supportive treatment as indicated.

#### 5. Fire-fighting measures

Fire hazards: Flammable gas under pressure.

Flash point of solvent: 65 to 70 °C (Closed cup - PMCC)

Flash point of propellant: About -60 °C (Closed cup)

Explosion hazards: 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 locations and flash back.

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#### 6. Accidental release measures

Personal precautions:

Wear suitable protective clothing. Eliminate all ignition sources.

Report incident to emergency personnel if aerosol cans are damaged.

Environmental precautions:

Prevent contamination of vegetation, sewers, waterways or low areas, drinking water and/or crops and grazing.

Methods for cleaning up:

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Extinguish all flames. Dike spill. Absorb liquid with sand or other non-flammable absorbent material. Shovel up carefully and dispose of as for flammable and toxic waste in accordance with local/national regulations.

Prevention of secondary hazards: No smoking or naked flames. Inspect for damaged aerosol cans.

Protective clothing:

Chemical impermeable gloves, face shield, effective respiratory protection or self-contained breathing apparatus as dictated by circumstances, full length protective clothing, apron and boots.

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## 7. Handling and storage

### Handling

Use only as per directions on label. Pressurised container; protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn container, even after use. FLAMMABLE - do not spray near a naked flame. Prevent contamination of food, feedstuffs, eating utensils and drinking water.

Remove pets and cover aquaria. Prevent excessive wetting of plastics and highly polished surfaces.

Wash with soap and water after use. Avoid excessive inhalation and skin contact.

Technical measures:

Ensure adequate ventilation. Eliminate any source of ignition.

Prevention of worker exposure:

Local and general ventilation, prevention of uncontrolled aerosol generation.

Environmental precautions:

PRECAUTIONS:

During application and when cleaning protective clothing, contamination of all sources of drinking water, rivers, dams, crops or grazing shall be prevented.

HAZARDS:

Violent eruption of aerosol can if exposed to temperatures above 50 °C. Prevent damage to aerosol can, do not puncture.

The product is toxic to fish, bees and other useful insects.

Cleaning of equipment after use:

All protective clothing and respirators used shall be decontaminated, washed, rinsed and dried.

### Storage

Segregate from foods and animal feeds.

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

Storage stability:

Storage duration: 24 Months

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## 8. Exposure controls and personal protection

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### Personal protective equipment

#### Respiratory protection:

Breathing protection if gases/vapors are formed. Wear respiratory protection if ventilation is inadequate.

Gas filter EN141 Type A for gases/vapors of organic compounds (boiling point >65 °C).

#### Hand protection:

Suitable chemical resistant safety gloves also with prolonged, direct contact

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)

#### Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit

#### 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

A clear, yellow concentration liquid contained under pressure in an aerosol can.

Form:	Liquefied gas
Flash point for solvent:	65 to 70 °C (Closed cup)
Flash point for propellant:	60°C (Closed cup)
Solubility in water:	Pyrethrins are relatively insoluble in water; miscible with most organic solvents.

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## 10. Stability and reactivity

Stability: The product is stable in original container in normal temperatures and conditions.

Compatibility: The pyrethroid is incompatible with alkaline substances. Hydrolysis and loss of insecticidal activity.

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

## 11. Toxicological information (active ingredient)

LD<sub>50</sub>/oral/rat/male/female: 584 to 900 mg/kg

LD<sub>50</sub>/dermal/rat/male/female: 5000 mg/kg

#### Skin irritant:

Pyrethrins may cause dermatitis in sensitized individuals. Persons sensitive to pollen are prone to allergic reactions which include respiratory discomfort.

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**Eye contact:**

Contact with the liquid or spray mist may be irritating, causing redness, pain and blurred vision; excessive contact with the propellant may cause frostbite and corneal damage. High airborne concentrations of propellant may cause irritation.

**Inhalation:**

The propellant is an asphyxiate and high concentration may cause drowsiness and loss of consciousness; avoid excessive inhalation of spray mist. The pyrethroid toxin may cause numbness of the lips and tongue, sneezing.

Persons sensitive to pollen are prone to allergic reactions to pyrethroids which may include respiratory discomfort, asthma and vasomotor rhinitis; may be delayed for several hours.

**Skin contact:**

Avoid skin contact with spray mist or liquid contents; may be irritating causing redness, discomfort; pyrethroid toxin cause allergic reaction in sensitive persons which may include dermatitis, asthma and vasomotor rhinitis.

Excessive contact with propellant may cause redness and blistering.

Ingestion and overexposure: The pyrethroid toxin is a central nervous system stimulant and may cause convulsions. The liquid concentrate contains a solvent; DO NOT induce vomiting. Ingestion of content due to contamination of food may cause numbness of the lips and tongue, sneezing and/or nausea; persons sensitive to pollen are prone to allergic reactions to pyrethroids which may be delayed for several hours.

Sensitization/guinea pig:

Mild skin sensitizer.

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## 12. Ecological information

### Ecotoxicity

Toxicity to fish:	
Coho salmon/LC <sub>50</sub> (96 h):	39 mg/l
Channel cat fish/LC <sub>50</sub> (96 h)	1.14 mg/l
Aquatic invertebrates:	
Daphnia magna/LC <sub>50</sub> (48 h):	0.6 µg/l
Toxicity to birds:	
Mallard duck LD <sub>50</sub> :	>9800mg/kg

### Toxicity to bees:

For honeybees the oral LD<sub>50</sub> is 150 ng/bee and for contact is 130 to 290 ng/bee. Pyrethrins exhibit a repellent effect to bees.

### Persistence and degradability

For pyrethrins in the environment, degradation, promoted by sunlight and UV light, begins at the alcohol group and involves the formation of numerous unknown cleavage products.

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**Bioaccumulation:**

Pyrethrins are oxidized in sunlight and rapidly hydrolysed by alkali with loss of insecticidal activity.

**Additional information**

Other ecotoxicological advice:

Do not discharge product into the environment.

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**13. Disposal considerations****Accidental spillages:**

If aerosol cans have been punctured, extinguish all source of ignition.

Consider evacuation of unnecessary people.

Contain liquid spillage with sand or earth; disperse vapour cloud with water spray.

Cover drains, sewers, etc. and inform authorities if major spillage occurs.

Sweep up and dispose of contained spillage after all danger of fire has been eliminated and dispose of as for flammable and toxic waste in accordance with local/national regulations.

Protective clothing to be worn when clearing spillage.

Waste from residues: Liquid residue to be disposed of as for flammable and toxic waste in accordance with local/national regulations.

Disposal of used packaging material: Dispose of empty containers as flammable and toxic waste in accordance with local/national regulations.

DO NOT burn.

DO NOT puncture containers.

**14. Transport information**

Un no. 1950

Class: 2.1

IMDG: 2013

Ems: 2-13

MFAG: 620

Subsidiary risk: •

Packaging group: III

Declaration for land shipment: 1950 AEROSOLS, flammable

Declaration for sea shipment: 1950 AEROSOLS, flammable

Declaration for shipment by air: 1950 AEROSOLS, flammable

**15. Regulatory information****Regulations of the European union (Labelling) / National legislation/Regulations**

WHO classification III

R-phrases)

R 10

S-phrases)

S 2, 15, 24

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**16. Other information**

Text of R-phrases mentioned in Section 3:

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R20/21/22: Harmful by 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.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties. Consult the label for directions for use.

THIS INFORMATION CONCERNS ONLY THE PRODUCT AS CONFORMING TO ITS  
SPECIFICATIONS AND LIMITED TO THE  
USES HEREIN STATED.

This sheet complements the technical sheet of use but does not replace it. The information contained on this sheet is based on knowledge of the product on the date of publication. It is given in good faith.

If the logo in this document is not in colour, this document is a photocopy and could be out of date.

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