
STARPLEX 83 CC

Material Safety Data Sheet

Revised on: 1 January 2017

Revision number 4

1. Substance/preparation and company identification

ROACH DUST

Use: Public Health, Insecticide

Company:

Starplex 83 CC
Reg. No. 2004/01564/23
P.O. Box 14374
BREDELL 1600
SOUTH AFRICA
TEL: (011) 979-4246/7

Emergency contact numbers

Tygerberg Poison Center: +2721 931 6129
Griffon Poison Information Centre - 082 446 8946

2. Composition/information on ingredients

Chemical nature

Hazardous ingredients

| | |
|--------------------------|--------|
| Permethrin | |
| Permethrin (pyrethroid) | 5 g/kg |
| CAS Number: [52645-53-1] | |

3. Hazard identification

Acute hazard unlikely in normal use.
Contact with substance may cause irritation to eyes and skin.
Allergic respiratory symptoms may develop after several hours.
Decomposes in a fire to emit toxic fumes of Cl.
Harmful to aquatic organisms, may cause long-term effects in the aquatic environment.

4. First-aid measures

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:

Contact with the dust may cause irritation, redness and discomfort. Remove contaminated clothing, rinse the affected skin area with plenty of soap and cool water or shower. Apply Vitamin E cream or simple toilet milks. When symptoms persist or in all cases of doubt seek medical advice.

On contact with eyes:

Contact with the dust may be irritating, causing redness and discomfort. Immediately wash eyes with copious amounts of clean water for at least 15 minutes and contact a doctor if irritation persists

On ingestion:

The toxin affects the central nervous system; may cause numbness of lips and tongue, headache, nausea, vomiting, diarrhoea, excitement, epigastric pain, convulsions and coma (very high doses). Allergic respiratory symptoms may be delayed for several hours. Keep patient calm and reassured, rinse mouth with clean water. Do not induce vomiting. Never give anything by mouth to an unconscious person. DO NOT apply direct mouth to mouth respiration, use a disposable protective mouthpiece.

Note to physician:

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

Local:

Initial treatment should be symptomatic and supportive.

After eye contact: Instillation of local anaesthetic drops, e.g. 1 % Amethocaine Hydrochloride eye drops. Give Analgesics as necessary.

Systemic:

Endotracheal intubation should be done and gastric lavage performed, followed by administration of charcoal.

Monitoring of respiratory and cardiac functions.

ECG – monitoring (Electrocardiogram)

Check for pulmonary oedema in event of inhalation.

Keep airway clear, administer artificial respiration if necessary.

Against convulsions: Give diazepam: for adults 5-10 mg, for children 2-5 mg intravenously repeated as necessary until fully sedated.

There is no antidote.

Contraindication:

Atropine

Derivatives of adrenaline

Recovery:

Spontaneous

5. Fire-fighting measures

Suitable extinguishing media:

Water spray, water fog, carbon dioxide, foam

Specific hazards:

Special protective equipment:

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

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

Personal precautions:

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

Decomposes in a fire to emit toxic fumes of Cl₂.

Environmental precautions:

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

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

Handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas.

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.

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

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 controls and personal protection

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 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

Form: A fine off white powder.

Degradation: For Permethrin in soil and water degradation is rapid.

Partition coefficient: $\log P_{ow}$: 5.95 (releases to active ingredient permethrin)

Solubility in water: Insoluble in water

10. Stability and reactivity

Conditions to avoid: Extremes of temperature and direct sunlight.

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

11. Toxicological information

(Active ingredient in formulated product)

LD₅₀/oral/rat/male/female: >5000 mg/kg

LD₅₀/dermal/rat/male/female: >5000 mg/kg

Skin irritant: Not a skin irritant.

| | |
|---------------------------|-----------------------|
| Sensitization/guinea pig: | Not skin sensitizing. |
|---------------------------|-----------------------|

(Technical material)

| | |
|--|----------------|
| LC ₅₀ /by inhalation/rat/male/female: | 2.3 mg/l / 4 h |
|--|----------------|

12. Ecological information

Ecotoxicity

| | |
|--|------------|
| Toxicity to fish: | |
| Rainbow trout/LC ₅₀ (96 h): | 0.009 mg/l |
| Bluegill LC ₅₀ (96 h): | 1.8 µg/l |
| Aquatic invertebrates: | |
| Daphnia magna/LC ₅₀ (48 h): | 0.6 µg/l |
| Toxicity to birds: | |
| Mallard duck LD ₅₀ : | >9800mg/kg |

Persistence and degradability

Degradation in soil and water are rapid.

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.

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

Land transport

| | |
|-------|---------------------|
| ADR: | Not dangerous goods |
| RID: | Not dangerous goods |
| ADNR: | Not dangerous goods |

IMDG: Not dangerous goods

GGVS: Not dangerous goods

ICAO/IATA: Not dangerous goods

15. Regulatory information

Regulations of the European union (Labelling) / National legislation/Regulations

WHO classification III

R-phrase(s)
R 10, 20

S-phrase(s)
S 2, 16

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.
