
STARPLEX 83 CC

Material Safety Data Sheet

Revised on: 1 January 2015

Revision number 1

1. Substance/preparation and company identification

Coopers Slug & Snail Bait

Use: Public Health, Industrial health, Home use, Molluscicide

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

2. Composition/information on ingredients

Chemical nature: Metaldehyde

Empirical Formula: C₈H₁₆O₄

CAS No.:108-62-3

UN No.: Not regulated

Chemical Name: (IUPAC): r-2, c-4, c-6, c-8-tetramethyl-1,3,5,7-tetroxocane

Product Use: Snail and Slug Bait

Component: Blue coloured pellets/bait containing 30g metaldehyde per kg

3. Hazard identification of the product

Active Ingredient and Formulation Health Risk: Not regarded as a hazardous substance.

Inhalation: Not a potential inhalation hazard.

Skin Contact: Not regarded as a skin irritant.

Eye Contact: Not regarded as an eye irritant.

Ingestion: Ingestion may cause nausea, vomiting, salivation, stomach ache and diarrhoea.

Environmental Risks: Avoid exposure to poultry and animal pets.

Other Risks: Do not contaminate any water body.

4. First-aid measures

Symptoms of Poisoning: Nausea, vomiting, salivation, diarrhoea and abdominal cramps.

Eye contact: Flush eyes with plenty of clean water for at least 15 minutes. If irritation persists, obtain medical attention.

Skin contact: Wash skin thoroughly with soap and water.

Inhalation: Inhalation is not applicable as a route of exposure under normal use conditions.

Ingestion: Harmful if swallowed. Rinse mouth with plenty of water. Get medical attention.

Advice to doctors / physician: Poisoning is characterised by central nervous system toxicity and acidosis. Induce vomiting if the patient is conscious. A gastric lavage is indicated and an activated charcoal suspension will limit absorption. Gastric lavage and catharsis are effective up to 12-24 hours after poisoning. Give oxygen if respiration is depressed.

Treat irritation symptomatically.

Antidote: Convulsions may be treated with diazepam, but attention must be paid to further depression of respiration. Antibiotics, chlorpromazine and additional supportive therapy for coma, hypoxia and/or pulmonary oedema may be required. Urinary acidosis should be countered by the administration of sodium bicarbonate.

5. Fire-fighting measures

Flash Point: Not highly flammable.

Extinguishing Media: Foam, dry chemical, carbon dioxide, water spray.

Fire and Explosion Hazards: The product does not readily propagate combustion.

Hazardous Products of Combustion: Normal products of organic combustion will be released under combustion.

Fire Fighting Equipment: Wear personal protective clothing and equipment and a self-contained breathing apparatus

6. Accidental release measures

Personal Precautions and Protective Equipment: Wear personal protective clothing (overall, boots, gloves).

Emergency Procedures: Contain the spillage.

Environmental Precautions: Prevent spillage from contaminating drains and water bodies.

Methods and Materials for Cleaning up: Collect spillage by sweeping or suction. Avoid generating dust.

Place in a labelled container for controlled disposal. After the removal of spilled bait, clean the area with water and detergent.

Refer to Section 13 for disposal of spilled material.

7. Handling and storage

Read the product label before use.

Good industrial practice in housekeeping and personal hygiene should be followed at all times when handling this product. Areas for handling and storage should be well ventilated

Handling

Harmful if swallowed.

Avoid dust contact with eyes.

Do not eat, drink or smoke while handling this product.

Wash hands and exposed skin thoroughly after handling or contact with this product.

Do not contaminate drains, sewers and water bodies when disposing of equipment rinse water.

Refer to Section 13 for disposal of rinse water.

Observe all safeguards on the label as to cleaning and destruction of the container.

Storage

Store away from ignition sources, heat and direct sunlight.

Keep out of reach of children, uninformed persons and animals.

Store away from food, drink, seed, fertiliser and animal feed.

Store only in the original labelled container in a cool dry place.

Shelf Life: 2 years

8. Exposure controls and personal protection

Personal protective equipment

To reduce personnel exposure to this product, it is recommended to use appropriate personal protective clothing when handling this product.

No exposure limits have been established for this product.

No special engineering controls are required.

Hygiene Measures:

Do not eat, drink, smoke or go to the bathroom while handling this product.

Wash face, hands and exposed skin after handling this product.

Wash contaminated clothing after exposure to this product

9. Physical and chemical properties

These are typical data based on tests but may vary from sample to sample. These typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

Appearance, Colour	Blue
Form	Granules
Odour	None
pH	6.8
Flammability	Not flammable.
Explosive Limits	Not explosive.
Vapour pressure	Not applicable
Density	0.82 – 0.84 g/ml

Solubility in water	Methaldehyde is not soluble in water
Partition Coefficient	(log Pow)
Corrosivity	Not corrosive.

10. Stability and reactivity

Stability:	The product is stable under normal ambient conditions.
Reactivity Hazards:	The product does not undergo hazardous reactions under normal handling conditions
Hazardous Decomposition:	The product does not produce hazardous decomposition products.
Conditions to Avoid:	Excessive heat

11. Toxicological information

This section is intended for use by toxicologists and health professionals.
Data obtained on this and similar products and components are summarised below:

Acute Oral Toxicity: (Rat) LD50: > 2500 mg/kg body weight (Not classified)

Acute Dermal Toxicity: (Rat) LD50: > 2000mg/kg body weight (Not classified)

Skin Irritation/Corrosion: (Rabbit) Not an skin irritant.

Eye Irritation/Damage: (Rabbit) Not an eye irritant under normal use conditions.

Skin Sensitization: (Mouse) Not a skin sensitizer.

Mutagenicity: Not mutagenic.

Carcinogenicity: Not carcinogenic.

Toxicity to Reproduction and/or Fertility: Possible reproductive toxin.

Developmental Toxicity / Teratology: Not teratogenic.

12. Ecological information

This section is intended for use by eco-toxicologists and environmental specialists.
Data obtained on this active ingredient and similar formulated products and components are summarised below:

Aquatic Toxicity, Fish:

Bluegill Sunfish (*Lepomis macrochirus*): Acute toxicity, 96 hours, LC50: 10 µg/l

Rainbow Trout (*Oncorhynchus mykiss*): Acute toxicity, 96 hours, LC50: 75mg/l

Aquatic Toxicity, Invertebrates:

Water Flea (*Daphnia magna*), 48 hours, static, EC50= 90 mg/l

Arthropod Toxicity:

Honey bee (*Apis mellifera*): Contact, 48 hours, LD50: > 113 µg/bee

Honey bee (*Apis mellifera*): Oral, 48 hours, LD50: 87 µg/bee

Avian Toxicity (a.i.):

Bobwhite Quail (*Colinus virginianus*): Dietary toxicity, 5 days, LC 50: 3460 mg/kg diet

Bobwhite Quail (*Colinus virginianus*): Acute oral toxicity, LD50: 170 mg/kg b. w.

Mallard Duck (*Anas platyrhynchos*): Acute oral toxicity, LD 50: 300 mg/kg b.w.

Soil Organism Toxicity, Invertebrates:

Earthworm (*Eisenia foetida*): Acute toxicity, 14 days, LC50= >1000 mg/kg dry soil

Soil Organism Toxicity, Microorganisms:

Metaldehyde is degraded by micro-organisms.

Bioaccumulation:

Bioaccumulation is not expected.

Mobility in Soil:

Metaldehyde is not soluble in water. Therefore it is unlikely to be mobile in soil.

13. Disposal considerations

Product

Do not burn product or empty containers.

Dispose of as industrial waste.

Keep out of drains, sewers, ditches and water ways.

Follow all local / regional / national / international regulations.

Containers

Triple or pressure rinse empty containers.

Store for collection by approved waste or recycling disposal service.

Dispose of as non-hazardous industrial waste.

Do not use containers for any other purpose.

Follow all local / regional / national / international regulations.

14. Transport information

For safe transport of hazardous substances apply appropriate local codes, classifications and regulations.

Metaldehyde is not classified as a hazardous substance.

Hazchem Code: 2X

15. Regulatory information

RSA Classification:

Blue band, Caution

16. Other information

The information presented is not necessarily exhaustive but is regarded as representative. These data are presented in good faith and are believed to be correct. No representation as to the completeness or accuracy of these data is made. No responsibility for damages of any nature whatsoever resulting from the use of or reliance upon this information will be accepted. In the event of any uncertainty, consult the supplier before use.
