

Safety Data Sheet

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

Product Name:

Deltakill CS

Use: Public Health

Company Name:

Coopers Manufacturing 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

2. HAZARD IDENTIFICATION

Important hazards:

GHS classification of the mixture	
Hazard classes / categories	Hazard codes
Acute Toxicity 5	H303
Skin irritation 2	H315
Eye irritation 2	H319
Reproductive toxicant 1B	H360D
Aquatic Chronic 2	H411

GHS classification: Category 5

Hazard pictogram:



Signal word: Danger

Hazard statements:

H303: May be harmful if swallowed.

H315: Causes skin irritation.

H319: Causes serious eye irritation.
 H360D: May damage the unborn child.
 H401: Toxic to aquatic life.
 H411: Toxic to aquatic life with long lasting effects.

Other hazards:

No additional hazards identified.

Precautionary statements:

P202: Do not handle until all safety precautions have been read and understood.
 P264: Wash hands and face thoroughly after handling.
 P273: Avoid release into the environment.
 P280: Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
 P302+P352: IF ON SKIN: Wash with plenty of water and non-abrasive soap.
 P305+351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+313: If exposed or concerned: Get medical attention.
 P332+P313: If skin irritation occurs: get medical advice.
 P337+P313: If eye irritation persists: Get medical advice.
 P362+P364: Take off contaminated clothing and wash it before reuse.
 P405: Store locked up.
 P501: Dispose of content/container to suitable landfill in accordance with local regulations.

3. COMPOSITION INFORMATION ON INGREDIENTS:

CAS NO	HAZARDOUS COMPONENT	CONCENTRATION	GHS CLASSIFICATION
52918-63-5	Deltamethrin	2.5%	H301: Acute Toxicity 3 H331: Acute Toxicity 3 H400: Aquatic Acute 1 H410: Aquatic Chronic 1
128-37-0	Butylated hydroxyl Touene	< 1%	H410: Aquatic Chronic 1
872-50-4	BN-methyl-2- Pyrrolidone	> 5%	H315: Skin Irritation 2 H319: Eye Irritation 3 H335: Specific Target Organ Toxicity Single Exposure 3 H360D: Reproductive toxicity 1B
9002-92-0	Polyoxyethylene Laureylether	> 5%	H302: Acute Toxicity 4 H319: Eye Irritation 2 H412: Aquatic Chronic 3

4. FIRST AID MEASURES:

General advice:

Avoid contact with skin, eyes and clothing. Remove contaminated clothing. If exposed or concerned: Get medical attention.

If inhaled:

Keep patient calm, remove to fresh air, and seek medical attention.

On skin contact:

IF ON SKIN: Wash with plenty of water and non-abrasive soap. If skin irritation occurs: get medical advice.

On contact with eyes:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.

On ingestion:

Rinse mouth immediately and then drink plenty of water, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Do not induce vomiting unless told to by a poison control centre or doctor.

Note to physician:

This product contains a pyrethroid and should not be confused with organophosphate compounds.

Local treatment:

Initial treatment should be symptomatic and supportive.

After eye contact:

Apply local anaesthetic drops e.g. 1% Amethocaine Hydrochloride eye drops. Give Analgesics as necessary.

Systemic treatment:

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

5. FIRE FIGHTING MEASURES:

Suitable extinguishing media:

Dry powder, foam, water spray, carbon dioxide

Unsuitable extinguishing media for safety reasons:

Water jet.

Specific hazards:

Carbon monoxide, hydrogen fluoride, carbon dioxide, nitrogen oxides, toxic gas
The substances/groups of substances mentioned can be released in case of fire.

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.

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: 30 °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:

Components with workplace control parameters:

No exposure standard allocated

Personal protective equipment:

Respiratory protection:

Breathing protection if breathable aerosols/dust are formed. Wear respiratory protection if ventilation is inadequate. Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

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), butyl rubber (0.7 mm) and other

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. 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 EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures:

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Avoid contact with the skin, eyes and clothing. Wearing of closed work clothing is recommended. Remove contaminated clothing immediately and dispose of safely. 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: Viscous liquid

Colour: Opaque white

Odour: Light chemical odour

Flashpoint: 100 °C

Specific gravity: 1.028(200 °C)

Solubility in water: Soluble

Partitioning coefficient n-octanol/water (log Pow): Not applicable

10. STABILITY AND REACTIVITY:

Stability: Stable to exposure to air and sunlight.
Stable under recommended storage conditions.

Compatibility: Do not mix or spray with any spray or dip.

Degradation: The microbial degradation of deltamethrin in soil takes place within 1 to 2 weeks.

11. TOXICOLOGICAL INFORMATION:

Formulated product:

Acute Oral LD50: > 2000 mg/kg

Acute Inhalation: > 5 mg/L (mist)

12. ECOLOGICAL INFORMATION:

Ecotoxicity

Toxicity to fish:

Information on Deltamethrin
LC50 (96 h) 0.00026mg/ Rainbow trout

Information on Deltamethrin
Aquatic invertebrates:
EC50 (48 h) .00001 mg/Daphnia magna

Information on Deltamethrin
Algae EC50: >9.1 mg/72h

Toxicity to birds

Information on Deltamethrin
LD50:>2250mg/ Bobwhite quail
LD50:>4640mg/ Mallard duck

Persistence and degradability

Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

13. DISPOSAL CONSIDERATIONS:

Must be disposed of 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.

14. TRANSPORT INFORMATION:

UN number: 3082

Class: 9

Packaging group: III

UN Proper Shipping Name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (2.5% Deltamethrin)

15. REGULATORY INFORMATION:

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.

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.