

KOMBAT CUTWORM

Version: 1.2

Revision Date: November 2020



1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY UNDERTAKING:

PRODUCT INFORMATION

Product Name : KOMBAT CUTWORM
Design Code :
Registration No. : L3130, Act No. 36 of 1947
Use : Insecticide
Company : Kombat (Pty) Ltd
39 Dr. Gordon Road
Greytown
3250
Telephone : +27-33-417-1906/7



Harmful



Dangerous for the environment

EMERGENCY TELEPHONE NUMBERS

SPILLAGES:

Emergency telephone: +27-32-533-0716 or +27-82-446-8946 (all hours)

POISONING INCIDENTS:

Poison Information Centre of the Western Cape: +27-861-555-777 (all hours)
Griffon Poison Information Centre +27-82-446-8946 (all hours)
UFS Pharmacology/Toxicology information centre: +27-82-491-0160

2. HAZARD IDENTIFICATION

Toxicity class:

WHO II; formulation: category III Blue band CAUTION
A medium toxicity insecticide

Likely routes of exposure:

Skin contact, ingestion, and inhalation.

Skin: May cause mild irritation. No adverse effects expected when used as recommended.

Eye contact:

May cause eye irritation.

Ingestion:

Harmful when ingested.

KOMBAT CUTWORM

Version: 1.2

Revision Date: November 2020

**Inhalation:**

May be harmful by inhalation. No adverse effects expected when used as recommended.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Name:	Sodium fluorosilicate
Chemical Name:	Disodium hexafluorosilicate (IUPAC)
CAS N^o.:	[16893-85-9]
Chemical family:	Inorganic fluorides
Chemical formula:	Na ₂ SiF ₆
Molecular weight:	186.1
Use:	A granular insecticide bait for the control of cutworms in all crops
Formulation:	Sodium fluorosilicate: 100 g ae/kg Maize meal, fungicide, dye
Active ingredients:	Sodium fluorosilicate: 100 g ae/kg
Symbol:	X _n , Xi, N
Indication of danger:	Harmful if swallowed, irritant, environmentally dangerous
Risk Phrases:	R23/24/25
UN Number:	2674

4. FIRST- AID MEASURES**General advice:**

Show this safety data sheet to the doctor in attendance.

Ingestion:

Drink plenty of water. Induce vomiting immediately and call a physician. If possible, drink milk afterwards.

Eye contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Inhalation:

Move to fresh air. Give oxygen. Consult a physician after significant exposure.

Skin contact:

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Consult a physician.

Protection of first aiders:

Ensure adequate ventilation. Use personal protective equipment.

KOMBAT CUTWORM

Version: 1.2

Revision Date: November 2020



5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Non-flammable. Carbon dioxide (CO₂), dry chemical.

Extinguishing media not suitable:

Water.

Specific fire-fighting hazards:

Hydrogen fluoride can be produced during a fire.

Specific methods:

Standard procedure for chemical fires.

Protection for fire fighters:

In case of fire, wear a self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Ensure adequate ventilation. Use personal protective equipment. Evacuate personnel to safe areas.

Environmental precautions:

Prevent product from entering drains.

Method for cleaning up:

Shovel into suitable container for disposal.

7. HANDLING AND STORAGE

Technical measure to prevent user exposure:

Use only in area provided with appropriate exhaust ventilation. Avoid dust formation.

Safe handling precautions:

Wear personal protective equipment (eyes).

Technical storage measures:

25kg or 50kg woven polypropylene bags with waterproof inner liners.

Storage conditions:

Keep containers tightly closed in a dry, cool, and well-ventilated area.

Incompatible products:

Stowage category A (away from acids)

KOMBAT CUTWORM

Version: 1.2

Revision Date: November 2020



8. EXPOSURE CONTROL / PERSONAL PROTECTION

Appropriate engineering measures:

Ensure adequate ventilation, especially in confined areas.

Special control parameter (exposure limits):

OSHA Permitted exposure level (PEL Final) 8 hr TWA 2.5mg/m³.

PPE: Respiratory protection:

In case of respirable dust and/or fumes, use a self-contained breathing apparatus.

PPE: Hand

Rubber or plastic gloves.

PPE: Eye

Tightly fitting safety goggles.

PPE: Skin and body:

Dust impervious protective suit. Remove and wash contaminated clothing before re-use.

Hygiene measures:

Avoid contact with skin, eyes, and clothing. When using – do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:

Crystalline

Colour:

White powder

pH:

Between 6 and 7

Odour:

Slightly pungent.

Flash point:

Does not flash.

Decomposition temperature:

Starts at 500°C

Molecular weight:

188.06

Relative density:

2.68

Solubility:

Water; 0.64g/100g water at 20°C

KOMBAT CUTWORM

Version: 1.2

Revision Date: November 2020



Typical pour density:

1340kg/m³

Typical tap density:

1590kg/m³

10. STABILITY AND REACTIVITY

Stability:

Stable under normal conditions. Decomposition starts at 500°C.

Conditions to avoid:

To avoid thermal decomposition, do not overheat.

Hazardous decomposition products:

Sodium Fluoride, Silicon Tetra fluoride and Hydrogen fluoride.

Materials to avoid:

Metals.

11. TOXICOLOGICAL INFORMATION (FORMULATION)

Acute toxicity:

LD50/oral/rat = 125mg/kg.

Irritation of skin: mild/500mg/rabbit

Irritation of eyes: severe/100mg/rabbit

Sensitization:

No data available.

Local effects:

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough.

Chronic toxicity:

Continuous or intermittent exposure to inorganic fluorides can lead to appreciable accumulation of fluoride in bone and to development of osteosclerosis and other bone changes.

Human experience:

No evidence of association between fluoride ingestion and mortality from cancer in humans. (Internal Agency of Research on Cancer).

KOMBAT CUTWORM

Version: 1.2

Revision Date: November 2020



12. ECOLOGICAL INFORMATION

Mobility:

No data available.

Ecotoxicity:

No data available.

Bioaccumulation:

No data available.

Persistence and degradability:

No data available.

Further information:

Highly toxic to foliage.

Lethal to *Tinca Vulgaris* at 50ppm.

13. DISPOSAL CONSIDERATIONS

Safe and preferred disposal methods:

Contact manufacturer.

Contaminated packaging:

Contact manufacturer.

14. TRANSPORT INFORMATION

ADR/rid:

Class 6.1

Labels: Harmful

Proper shipping name: Sodium fluorosilicate

Item: 64°C

IMDG

Class: 6.1

Packaging group: III

Labels: Harmful

Subrisk: None

Proper shipping name: Sodium fluorosilicate

IATA

Class: 6.1

Packaging group: III

Labels: Harmful

Subrisk: None

Proper shipping name: Sodium fluorosilicate

KOMBAT CUTWORM

Version: 1.2

Revision Date: November 2020



15. REGULATORY INFORMATION

According to (National equivalent of EC-Dir.67/548), as amended, the product is labeled as follows:

- T** : Toxic
R23/24/25 : Toxic by inhalation, in contact with skin and if swallowed.
S1/2 : Keep locked-up and out of reach children.
S26 : In case of eye contact, rinse immediately with plenty of water and seek medical advice.
S44 : If you feel unwell, seek medical advice (show label where possible).

16. OTHER INFORMATION

Recommended use:

Fluoridation of drinking water.
Laundry sours.
Opalescent glass.
Vitreous enamel frits.
Metallurgy of aluminium and verblium.
Insecticides and rodenticides.
Leather and wood preservatives.

Disclaimer:

The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product nor where instructions or recommendations are not followed. 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.