



MATERIAL SAFETY DATA SHEET

CUTWORM BAIT

Date Issued: April 2014 and is valid for 3 years from this date.

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Revision: 2

Print Date: 3/10/14

1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: CUTWORM BAIT

SUPPLIER: EFEKTO

PO BOX 652147

BENMORE

2010

TEL No. 011 287 5700

EMERGENCY TELEPHONE NUMBERS:

SPILLAGES: 083 1233 911

Fax: 086 685 3129

POISONINGS:

National Poison Centre 021-9386084 (office hours).

021-9316129 (after hours).

082 446 8946

Use: A ready to use bait for use on new plantings of all plants to control cutworm

2. HAZARDS IDENTIFICATION

Environment:

- Toxic by inhalation, in contact with skin and if swallowed.
- Toxic to aquatic organisms.
- Severe eye irritation

Likely routes of exposure:

Skin and eye contact, ingestion and inhalation.

Skin Contact: Mild irritation, redness and swelling of the skin.

Eye Contact: Severe eye irritation, watering, and redness.

Ingestion Severe irritations, burns, perforation of the gastrointestinal tract accompanied by shock.

Nausea, vomiting (bloody), abdominal cramps and diarrhea (bloody).

Inhalation: Nose and throat irritation. In case of repeated or prolonged exposure; risk of sore throat, nose bleeds, chronic bronchitis.

Long term effects: Sodium Fluorosilicate can irritate the lungs. Repeated exposure may cause bronchitis to develop with cough, phlegm, and/or shortness of breath.

Risk Phrases: R23/24/25

UN No.: 2674

Class: 6.1



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3. COMPOSITION/INFORMATION ON INGREDIENTS

Active ingredients:

Active ingredients.	CAS No.:	EC No.:
Sodium fluorosilicate 100 g/kg	16893-85-9	240-934-8
Inerts balance		-

Chemical Name: Sodium Fluorosilicate

Chemical Family: Fluoride.

Chemical Formula: Na₂SiF₆

NIOSH/RTECS No.: TF630000

4. FIRST-AID MEASURES

Symptoms of poisoning:

Ingestion: swallowing can result in nausea, vomiting, diarrhoea, and abdominal pain. Larger exposures may result in muscular weakness, shock, convulsions and spasms. Can be fatal due to respiratory and cardiac failure. Irritant to eyes, skin, lungs.

Skin Contact:

Wash the affected area with soap and water. Consult with a physician in cases of persistent pain or redness.

Eye Contact:

Flush eyes with copious amounts of water for at least 15 minutes. Obtain medical attention if eye irritation persists.

Ingestion:

Never give anything by mouth to an unconscious person.

Rinse mouth with fresh water. Give to drink 3-4 glasses of milk or a 1% aqueous calcium gluconate solution.

Contact a physician for immediately in all cases.

Inhalation:

Remove from source of exposure. Consult with a physician in case of respiratory symptoms

Note to Physician:

Treatment is symptomatic. Exposed person should be observed for 48-72 hours for delayed onset of edema (tissue swelling caused by the accumulation of fluid).

5. FIRE-FIGHTING MEASURES

For surrounding Fire:

Use extinguishing media appropriate for surrounding fire.

Extinguishing agents:

Extinguish small fires with water, carbon dioxide, dry powder, or alcohol-resistant foam.

Fire fighting:



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Remove containers from fire area if possible. Contain fire control agents for later disposal. Use a recommended extinguishing agent. Water can be used to cool unaffected containers. Avoid inhaling hazardous vapours. Keep upwind.

Personal protective equipment:

Fire may produce irritating vapours, or other products of combustion. Fire fighters and others that may be exposed should wear full protective clothing and self-contained breathing apparatus.

Fire and thermal decomposition products:

In case of decomposition, releases hydrogen fluoride

6. ACCIDENTAL RELEASE MEASURES

Spillages:

Collect the product with suitable means avoiding dust formation. Place everything into a closed, labeled container compatible with the product. Do not discharge into the environment (sewers, rivers, soils).

7. HANDLING AND STORAGE

Handling:

Avoid contact with eyes. Wash hands before eating, drinking, chewing gum, smoking, or using the toilet

Storage:

To maintain the quality, store in covered in original containers tightly closed, in a cool, well-ventilated place. Store away from food, drink and animal feeding stuffs. Keep away from children and unauthorised adults. Adhere to local regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits:

Fluorides:

2.5 mg/m³ (as F) 2.5 mg/m³ (as F)

Precautionary and engineering measures:

Maintain employee exposures to levels below the applicable exposure limits.

Avoid contact and provide local exhaust or other ventilation where necessary.

Personal Protection:

Wear suitable gloves when handling the product over long periods. If dust concentration exceed recommended exposure limits, use NIOSH-approved dust respirators. If high dust concentrations exist, tight-fitting goggles are recommended to reduce dust exposure to the eyes.

After handling product, wash hands and observe good hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Blue granules.

Odour: Slightly pungent.

Flammability: Not Flammable.



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Bulk Density: 1.1 g/ml.

Solubility at 20°C (g/L): Insoluble.

10. STABILITY AND REACTIVITY

Storage stability:

Stable for up to 2 years under normal cool, dry shaded warehouse conditions.

Incompatibility:

Not compatible with other pesticides or fertilizers.

Hazardous decomposition products:

In case of decomposition, releases hydrogen fluoride

11. TOXICOLOGICAL INFORMATION

Acute oral LD₅₀ : 125 – 430 mg/kg

Acute dermal LD₅₀: >2000 mg/kg

Acute inhalation : guinea pig LC_{Lo}: = 33 mg/kg;

Acute skin irritation: May cause mild skin irritation.

Acute eye irritation: Severely irritation to the eyes.

Dermal sensitisation: NO INFORMATION.

Carcinogenicity: No studies with sodium hexafluorosilicate or fluorosilicic acid were available. IARC (1987) concluded that there was inadequate evidence for carcinogenicity to humans and to animals for inorganic fluorides used in drinking water.

Teratogenicity: No data.

Mutagenicity: Not mutagenic.

Long term effects: **Sodium Fluorosilicate** can irritate the lungs. Repeated exposure may cause bronchitis to develop with cough, phlem, and/or shortness of breath.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways. Although an active ingredient in this material is toxic to the aquatic environment, if used in accordance with the recommendations it is not expected to present a risk to the environment.

Fish: Toxic to *Tinca vulgaris* [A European fresh-water fish]-allied to the carp at 50 ppm.

Algae EC₅₀ – (96 hours): *Scenedesmus quadricauda* is 10, 0 mg/l.

13. DISPOSAL CONSIDERATIONS

Disposal:

Depending on degree and nature of contamination, dispose of by sending to an authorized waste facility. Uncontaminated product can generally be disposed of by burial in an approved land disposal facility



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Package product wastes:

Emptied containers retain vapour and product residues. Observe all labeled safeguards until container is destroyed. Combustible containers should be disposed of in pesticide incinerators or at government approved landfill site.

14. TRANSPORT INFORMATION

UN No.: 2674

ADR

Proper Shipping Name: Sodium Fluorosilicate

Class: 6.1

Label:

Packaging group: III

IMDG

Proper Shipping Name: Sodium Fluorosilicate

Class: 6.1

Label:

Packaging group: III

IATA

Proper Shipping Name: Sodium Fluorosilicate

Class: 6.1

Label:

Packaging group: III

Y619 (10kg); 619 (100kg)

Gargo 619 (200kg)

Tremcard No.: 61GT5-III

15. REGULATORY INFORMATION

Symbol : T-Toxic

Risk phrases :

R 23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

Do not breathe dust.

Safety phrases:

S 1/2 Keep locked up and out of reach of children.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

National Legislation: In accordance with the South African National Road Traffic Act, 1996 (Act 93 of 1996), the Fire Brigade Act, 1987 (Act 99 of 1987) and the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)



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16. OTHER INFORMATION

Compiled by: Danie Fourie

Regulatory Information

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the PRODUCT AS SUCH. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear.

It is the responsibility of persons in receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produces formulations(s) containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.

REFERENCES

- Similar product MSDS.
- Sodium Hexafluorosilicate and Fluorosilicic Acid Review of Toxicological Literature; Oct 2001
- Own data.
- The Pesticide Manual; Thirteenth Edition; Editor Clive Tomlin; Crop Protection Publications, 2003.
- ECB-ESIS (European chemical Information System).
- ADR 2011, Part 3.
- IMDG Code, 2005 Edition, Vol. 2.
- IATA Dangerous goods regulations, Effective 1 January 2011

END OF MSDS.