



MATERIAL SAFETY DATA SHEET

FUMITABS

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

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Revision No.: 4

Print Date: 3/10/14

1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: FUMITABS

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 fumigation tablet for the control of insects in the household as listed on the label.

2. HAZARDS IDENTIFICATION

- May cause irritation.
- Oxidizing solid,
- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Likely routes of exposure:

Skin and eye contact, ingestion and inhalation.

Ingestion: Toxic by ingestion.

Inhalation: Toxic by inhalation.

Skin contact: Irritating to skin.

Eye contact: Smoke can be irritating to eyes

Carcinogenicity: No carcinogenic potential.

Genotoxicity: No genotoxic potential.

Teratogenicity: Animal studies did not detect any teratogenic effects.

Mutagenicity: Animal studies did not detect any mutagenic activity.

Neurotoxicity: Evidence of neurotoxic effects.



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UN No.: 3086
Symbols: T, N, O
Risk-phrase(s): R22/ 23, R36/38, R50/53

3. COMPOSITION/INFORMATION ON INGREDIENTS

Active ingredients:

Active ingredients.	CAS No.:	EC No.:
Deltamethrin 3.0 %	52918-63-5	2582566
Pine oil	8002-09-3.	-
Potassium chlorate	3811-04-9	223-289-7
Inerts Balance		

Chemical Name: (S)- α -cyano-3-phenoxybenzyl 1*R*,3*R*)-3-(2,2-dibromovinyl)-2,2-dimethylcyclopropanecarboxylate
Chemical Family: Pyrethroids
Chemical Formula: C₂₂H₁₉Br₂NO₃
NIOSH/RTECS No.: Not available.

4. FIRST-AID MEASURES

Deltamethrin can induce numbness, itching, tingling, and burning sensations in exposed workers, which develop after a latent period of approximately 30 min, peak by 8 hours, and disappear within 24 hours.

Inhalation:

Remove source of contamination or move victim to fresh air. Keep affected person warm and at rest. Treat symptomatically and supportively. Seek medical advice immediately.

Skin contact:

Remove contaminated clothing, shoes and leather goods. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap followed by alcohol. Seek medical advice if necessary. The product is not considered to be a dermal sensitizer, but persons who become sensitized may require specialized medical management with anti-inflammatory agents.

Eye contact:

Immediately flush eyes with gently flowing lukewarm water or saline solution for 20 minutes, holding the eyelid(s) open. Seek medical attention if necessary.

Ingestion:

Seek medical advice immediately. Administration of lavage or oxygen should be performed by qualified medical personnel. Do not administer milk, cream, or other substances containing vegetable or animal fats which enhance absorption of pyrethroids.

Advice to physician:



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There is no specific antidote. Treat symptomatically and supportively

5. FIRE-FIGHTING MEASURES

Fire:

Not combustible, but substance contains a strong oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition. When heated, it releases oxygen which increases combustion.

Extinguish small fires with carbon dioxide, dry powder, or alcohol-resistant foam. Water spray can be used for cooling of unaffected stock, but avoid water coming in contact with the product. Contain water used for fire-fighting for later disposal.

Avoid the accumulation of polluted run-off from the site.

Fire fighting:

Remove spectators from surrounding area. Remove containers from fire area if possible. Fight fire from maximum distance.

For massive fire, use unmanned hose holder or monitor nozzles. Contain fire control agents for later disposal.

Use a recommended extinguishing agent for the type of surrounding fire. Water can be used to cool unaffected containers but must be contained for later disposal. Avoid inhaling hazardous vapours. Keep upwind.

Special Hazards:

Fire may produce irritating or poisonous vapours (toxic fumes), mists or other products of combustion.

Personal protective equipment:

Fire fighters and others that may be exposed should wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Avoid contact with skin and eyes. Do not inhale fumes. For personal protection see Section 8.

Environmental precautions:

Do not allow to enter drains or water courses. When the product contaminates public waters, inform appropriate authorities immediately in accordance with local regulations.

Occupational spill:

Do not allow the product to come in contact with water systems. For spills, pickup and place into containers for subsequent disposal.

7. HANDLING AND STORAGE

Handling:

Avoid contact with eyes and skin, and inhalation of fumes. Use with adequate ventilation. Wash hands before eating, drinking, chewing gum, smoking or using the toilet. Operators should change and wash clothing daily. Then wash skin thoroughly using a non-abrasive soap and put on clean clothing

Storage:

Store away from naked flame or sparks. Keep under lock and key and out of reach of unauthorized persons, children and animals. Store in its original labelled container in isolated, dry, cool and well-ventilated area.



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Not to be stored next to foodstuffs and water supplies. Local regulations should be complied with.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure to Fumitabs may occur through inhalation of smoke particles and dermal contact with this insecticide during or after its application or at workplaces where Fumitabs are produced.

Exposure limits: None established.

Engineering control measures:

It is essential to provide adequate ventilation. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire and other applicable regulations. If engineering controls and work practices are not effective in controlling exposure to this material, then wear suitable personal protective equipment including approved respiratory protection.

PERSONAL PROTECTIVE EQUIPMENT:

Respirator:

An approved respirator suitable for protection from dusts and mists of pesticides is required. Limitations of respirator use specified by the approving agency and the manufacturer must be observed.

Clothing:

Employee must wear appropriate protective (impervious) clothing and equipment to prevent skin contact with the substance.

Gloves:

Employee must wear appropriate synthetic protective gloves to prevent contact with this substance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: A red tablet.

Flammability: Will ignite with open flame.

Explosive properties: No information currently available.

Flash point: Not available.

Oxidising properties: One of the ingredients, Potassium chlorate, is an oxidizer.

Solubility in water: Does not mix with water.

10. STABILITY AND REACTIVITY

Storage stability:

Stable for up to 2 years under normal warehouse conditions.

Incompatibility: This product is ready to use.

Thermal decomposition:

Toxic oxides of carbon are produced when the product decomposes on heating.

11. TOXICOLOGICAL INFORMATION



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Deltamethrin:

Acute oral LD₅₀ in rats: >5000 mg/kg for the formulated product

Acute dermal LD₅₀: > 2 000 mg/kg in rabbits.[formulated product]

Skin irritation: Non irritant

Eye irritation: Non irritant

Skin sensitization: Not sensitizing

Acute inhalation LC₅₀: >2.2 mg/L of air over 4 hours [formulation]

Rats 0.6 mg/l 6 hour whole-body exposure, dust particulate aerosol.-EU evaluation for a.i.

Carcinogenicity: No carcinogenic potential.

Genotoxicity: No genotoxic potential.

Teratogenicity: Animal studies did not detect any teratogenic effects.

Mutagenicity: Animal studies did not detect any mutagenic activity.

Neurotoxicity: Evidence of neurotoxic effects.

12. ECOLOGICAL INFORMATION

DELTA METHRIN:**ECOTOXICOLOGY:**

Data as for active ingredient.

Birds:

Acute oral LD₅₀: >4640 mg/kg (mallard duck).

Oral LD₅₀ > 2250 mg/kg bw (*Colinus virginianus*)

Fish:

Deltamethrin is highly toxic to fish under laboratory conditions, but is not toxic to fish under natural conditions.

Deltamethrin had an impact on aquatic herbivorous insects.

This impact led to an increase of algae. Crustacea may be affected.

LC₅₀ (96 hr):0.91 µg/l (rainbow trout).

Daphnia:

Toxic to *Daphnia magna*.

LC₅₀ (48 h): 0.35 µg /l.

Bees:

Toxic to bees.

LD₅₀(oral): 79 ng/bee(contact).

Earthworms(LC₅₀): LC₅₀ (14 d) > 1290 mg/kg soil.

Toxicity to algae EC₅₀ (Algae): > 9.1 mg/l

Degradability:

Deltamethrin undergoes microbial degradation within 1-2 weeks. There is strong adsorption by soil colloids and no risk of leaching

13. DISPOSAL CONSIDERATIONS

Pesticide disposal:

Surplus product, etc., should be burned in a high- temperature incinerator (> 1000 °C) or buried in approved landfill. Comply with local legislation applying to waste disposal.



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Package product wastes:

Observe all labelled safeguards until container is destroyed. Combustible containers should be disposed of in pesticide incinerators.

14. TRANSPORT INFORMATION

UN NUMBER: 3087

ADR/IRD:

Hazard ID NR: 56

Label: 5.1+6.1

Item no: 29 ° (c)

Substance name: Oxidizing solid, toxic, n.o.s. (Potassium chlorate and Deltamethrin)

AIR/IATA :

Shipping name: Oxidizing solid, toxic, n.o.s. (Potassium chlorate and Deltamethrin)

Class: 5.1

Subsidiary Risk: 6.1

Hazard Label: Oxidizer & Toxic

Packaging group: III

Passenger aircraft: Y516 (Max. 10kg); 516 (25 kg).

Cargo aircraft: 518 (Max. 100 kg).

IMG/IMO:

Packaging group: III

Label of class: 5.1

Subsidiary Risk: 6,1 **Marine pollutant**

Shipping Name: Oxidizing solid, toxic, n.o.s. (Potassium chlorate and Deltamethrin)

Tremcard no: 51GOT2-III

15. REGULATORY INFORMATION

Symbol : T; N; O

Indication of danger: Toxic, Dangerous for the Environment, Oxidizing

Risk phrase(s):

R8 Contact with combustible material may cause fire

R23/25 Toxic by inhalation and if swallowed.

R 36/38 Irritating to eyes and skin.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



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Safety phrases:

S1/ 2	Keep locked up and out of reach of children.
S20/21	When using do not eat, drink or smoke.
S24	Avoid contact with skin.
S28	After contact with skin, wash immediately with plenty of ... (to be specified by the manufacturer).
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S60	This material and its container must be disposed of as hazardous waste.
S61	Avoid release to the environment. Refer to special instructions/Safety data sheets.

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)

16. OTHER INFORMATION

Compiled by: Danie Fourie

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

- Deltamethrin-Risk Characterization Document; Volume 1; Health assessment section Medical toxicology branch, department pesticide regulation California environmental protection agency June 13, 2000
- Deltamethrin EU Review.
- The Pesticide Manual; Thirteenth Edition; Editor, Clive Tomlin; Crop Protection Publications, 2003.
- ECB-ESIS (European chemical Information System).
- Dangerous Goods Regulations, IATA, 46th Edition, Effective I January 2005

END OF MSDS.