

D-TACKE

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: D-TACKE
Pesticide Classification: Insecticide
UN No.: 3351

Supplier

Enviro Bio-Chem (Pty) Ltd
Co. Reg. No.: 2013/194774/07
44 Kerk Street, Lichtenburg
North West, South Africa 2740

Registration Holder

Erintrade CC t/a RT Chemicals
Co. Reg. No.: CK2001/036403/23
44 Kerk Street, Lichtenburg
North West, South Africa 2740

Telephone: +27 87 231 7261
Fax: 086 541 7948
Website: www.envirobiochem.co.za

24 Hr Emergency Number: Bateleur: +27 83 123 3911

In case of Poisoning:

Poison Information Centre: +27 82 446 8946
Tygerberg Hospital: (+27 21) 931 6129
Poison Emergency Enquiries: (+27 21) 689 5227

Common Name: Deltamethrin 25 g/l EC

Chemical Name: (S)-alpha-cyano-3-phenoxybenzyl(1R,3R)-3-(2,2-dichlorovinyl)-,2dimethylcyclopropanecarboxylate

Roth: (S)-alpha-cyano-3-phenoxybenzyl (1R)-cis-3-(2,2-dichlorovinyl)-2,2-dimethyl cyclopropanecarboxylate (IUPAC)

Empirical Formula: C₂₂H₁₉Br₂NO₃

CAS No.: 52918-63-5

RSA Reg. No.: L7229 Act 36 of 1947

Namibia Reg. No.: N-AR 1457

Botswana Reg. No.: W130511

2. COMPOSITION / INFORMATION ON INGREDIENTS

| <u>Ingredient Name</u> | <u>Concentration</u> |
|------------------------|----------------------|
| Deltamethrin | 25 g/l |

3. HAZARD IDENTIFICATION

Hazard Class: WHO Class II -Moderately hazardous.

Main Hazard: Irritating to skin and eyes.

Flammability: Highly flammable.

Chemical Hazard: During a fire this product may release smoke and hazardous decomposition products.

Biological Hazard: Toxic to fish and to bees in laboratory tests. But do not represent a significant hazard to fish, bees and aquatic fauna at normal rate under field conditions.

4. FIRST AID MEASURES AND PRECAUTIONS

If poisoning is suspected, do not wait for symptoms to develop. Contact a physician, the nearest hospital or the nearest Poison Control Centre.

Symptoms of Human Poisoning: No signs and symptoms of poisoning are known or expected in humans.

First Aid Measures:

Skin Contact: Remove contaminated clothing and wash before reuse. Absorb product with saponite, then wash with soap and water. Seek medical attention if symptoms persist.

Eye Contact: Hold eyes open and flush immediately with clear, clean running water for at least 15 minutes. If eye symptoms (redness, irritation or pain) persist refer patient to ophthalmologist for examination of eyes.

Ingestion: Do not induce vomiting. Do not give anything by mouth. Obtain medical attention. If the person is alert, rinse mouth thoroughly with water.

Inhalation: Move victim from contaminated area to fresh air. Avoid inhalation of vapor or spray mist. Seek medical attention. Use cysteine derivative to do atomization for 15 minutes.

Advice to Physician: See product pH value.

Antidote: There is no specific antidote for poisoning with this product.

5. FIRE FIGHTING MEASURES

Flammability: Highly flammable.

Extinguishing Agents: Foam, carbon dioxide, dry powder, sand, earth or water spray.

Firefighting: Firefighters and others that may be exposed should wear full protective clothing and self-contained breathing apparatus. Remove container from fire area if safe to do so. Contain fire control water for later disposal. Use a recommended extinguishing agent for the type of surrounding fire. Keep material out of sewers and water sources. Avoid inhalation of hazardous vapours. Keep upwind.

Special Hazards: During a fire this product may release smoke and hazardous decomposition products.

6. ACCIDENTAL RELEASE MEASURES (SPILLAGE)

Personal Precautions: Do not inhale fumes. Ventilate area of spill or leak. Avoid contact with skin, eyes or clothes. For personal protective equipment see section 8.

Environmental Precautions: Do not allow product to enter drains or watercourses. Inform the appropriate authorities immediately if the product has contaminated public water. Contain liquid far ahead of spill. Contain spillage and contaminated water for subsequent disposal. Do not flush spilled material into drains.

Spills: Keep all bystanders away. Wear goggles, half face-piece respirator with combined dust and vapor cartridge, full length clothing and PVC gloves. Reposition any leaking containers so as to minimize further leakage. Dam and absorb spill with an absorbent material (e.g. sand or soil). Shovel the absorbed spill into drums and dispose of according to Section 13.

7. HANDLING AND STORAGE REQUIREMENTS

Handling: Avoid contact with eyes and skin. Avoid 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. Remove clothing immediately if the product gets inside. Then wash skin thoroughly using non-abrasive soap and put on clean clothing. Do not apply directly to areas where surface water is present. Water used to clean equipment must be disposed of correctly to avoid contamination.

Storage: Store in its original container in isolated, dry, cool and well-ventilated area. Store away from incompatible substances. Keep under lock and key out of reach of unauthorized persons, children and animals. Not to be stored next to foodstuffs and water supplies. Local regulations should be complied with.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Acceptable Daily Intake (ADI): 0.01 mg/kg body weight.

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.

Personal Protective Equipment:

Clothing: Long-sleeved shirt, long pants, shoes plus socks, protective waterproof (impermeable) gloves. Employee must wear appropriate protective clothing and equipment to prevent prolonged skin contact with this product.

Gloves: Employee must wear appropriate chemical resistant protective gloves to prevent contact with this substance.

Eye Protection: Wear eye protection. During mixing or pouring operations or other activities in which eye contact with undiluted product is likely to occur, splash goggles or a face shield should be worn. Where there is any possibility that an employee's eyes may be exposed to this substance the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.

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

Other Protection: Do not eat, drink or smoke while handling this product. Prevent contamination of food, feeds, drinking water and eating utensils. After using this product wash hands and face before eating. Take extreme care to avoid drift. Wash accurately (preferably a shower) after a work shift. Wash hands with soap and water during breaks and at the end of work.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Transparent slight yellow liquid.

pH: 4 - 5

Flammability: Highly flammable.

Flash Point: 43 °C (closed cup).

Corrosive: This product is corrosive.

10. STABILITY AND REACTIVITY

Stability: Stable for 2 years under normal storage.

Conditions to Avoid: Avoid excessive heat and ignition sources.

Incompatible Materials: Compatible with many insecticides, fungicides and acaricides, but incompatible with alkaline substances.

Decomposition Products: No data available.

11. TOXICOLOGICAL INFORMATION

Acute toxicity based on the formulated product toxicity.

Acute Oral LD₅₀ (rat): 535 mg/kg (calculated).

Acute Dermal LD₅₀ (rabbit): 1782 mg/kg (calculated).

Acute Inhalation LC₅₀ (rat, 4 hr): No data available.

Skin and Eye Irritation (rabbit): Irritating to skin and eyes.

Skin Sensitization (guinea pig): Not a skin sensitizer.

Chronic Effects: Results from 90-days animal studies suggest no target organ effects under the conditions of normal handling and use.

Carcinogenicity: Animal studies did not detect any carcinogenic effects. No human information available.

Mutagenicity: Animal studies did not detect any mutagenic effects. No human information available.

Teratogenicity: Animal studies did not detect any teratogenic effects. No human information available.

Reproductive Hazard: Animal studies did not detect any abnormal effects.

12. ECOLOGICAL INFORMATION

Ecotoxicity is based on the active ingredient toxicity.

Aquatic Toxicity Fish LC₅₀ (96 hr): 0.91 µg/l (rainbow trout); 1.4 µg/l (bluegill sunfish). Toxic to fish.

Aquatic Toxicity Daphnia EC₅₀ (24 hr): 4.15 µg/l.

Aquatic Toxicity Algae EC₅₀ (5 days): No data available.

Avian Toxicity LD₅₀: >4 640 mg/kg (mallard duck). Moderately toxic to birds.

Bee Toxicity LD₅₀: Toxic to bees.

Biodegradability: Deltamethrin undergoes microbial degradation within 1 to 2 weeks.

Bio-accumulation: No data available.

Mobility: Strong absorption by soil colloids occurs and no risk of leaching.

13. DISPOSAL CONSIDERATION

Pesticide Disposal: Waste resulting from the use of this product that cannot be re-used or reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable local procedures. Hydrolysis under alkaline conditions is a suitable method to dispose of small quantities of the produce. After hydrolysis, dilute and dispose of in a landfill. Comply with any local legislation applying to waste disposal.

Package Product Wastes: Rinse empty containers three times with sufficient water and add the rinsings to the contents of the spray tank. Destroy empty containers by perforation and flattening, then dispose of them by sanitary landfill or by incineration. Comply with any local legislation applying to waste disposal. Do not contaminate water, food, or feed by storage or disposal.

14. TRANSPORT INFORMATION

UN No.: 3351

Class: 6.1

Packaging Group: III

Proper Shipping Name: Pyrethroid Pesticide; Liquid; Toxic; Flammable (contains Deltamethrin).

15. REGULATORY INFORMATION

Risk Phrases: R11- Highly flammable.
R20/22- Harmful by inhalation and if swallowed.
R36/37- Irritating to eyes and respiratory system.
R43- May cause sensitisation by skin contact.
R51- Toxic to aquatic organisms.
R57- Toxic to bees.

Safety Phrases: S1/2- Keep locked up and out of reach children.
S13- Keep away from food, drink and animal feeding stuffs.
S16- Keep away from sources of ignition – no smoking.

National Legislation: This product is registered under Act 36 of 1947 of the Republic of South Africa. It is a violation of South African law to use this product in any manner inconsistent with its approved labelling. Read and follow all label directions.

16. OTHER INFORMATION

Note: Read and understand all the information on the product label before using the product.

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.

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