

Safety Data Sheet (SDS) D-Tacke

According to UN GHS 8th Ed
Revision Date: 07/07/2022

First print date: 01/06/2018
Version: 1.1

SECTION 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY/UNDERTAKING

Product identifier:

Identification as on the label/Trade name: D-Tacke

Common name: Deltamethrin 25 g/L EC

Relevant identification uses of the substance and uses advised against:

Identified uses: Insecticide

Uses advised against: Use only as directed.

Details of the supplier of the Safety Data Sheet:

Enviro Bio-Chem (Pty) Ltd, 44 Kerk Street,
Lichtenburg, North West, South Africa, 2740

Details of the Registration Holder:

Erintrade cc t/a RT Chemicals 44 Kerk Street,
Lichtenburg, North West, South Africa, 2740

Contact Details:

Telephone: +27 87 231 7261

Fax: 086 541 7948

Website: www.envirobiochem.co.za

Emergency telephone numbers:

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

Griffon Poison Information Centre: +27 82 446 8946

Poisons Information Helpline: 0861 555 777

Tygerberg Hospital: +27 21 931 6129

SECTION 2. HAZARD IDENTIFICATION

Classification of the substances or mixture

The mixture is classified according to SANS 10234:2019, Regulation EC 1272/2008 [EU-GHS/CLP]

Hazard classes/Hazard categories	Hazard statement
Flammable Liquid (Category 3)	H226
Aspiration hazard (Category 1)	H304
Skin irritation (Category 2)	H315
Eye irritation (Category 2)	H319
STOT SE (Category 3)	H335
Aquatic Toxicity Acute (Category 1)	H400
Aquatic Toxicity Chronic (Category 1)	H410

For full text of H statements see section 16

The most important adverse effects

The most important adverse physicochemical effects: Flammable liquid and vapour.

The most important adverse human health effects: Causes skin irritation and may cause an allergic skin reaction.

Label elements



Hazard pictograms

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Signal Word: Danger

Hazard Statements:

H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Precautionary Statements:

P102	Keep out of reach of children
P103	Read label before use
P210	Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources.
P261:	Avoid breathing mist, vapours and spray.
P264	Wash face, hands, and any exposed skin thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P233	Keep container tightly closed
P243	Take precautionary measures against static discharge.
P271	Use only outdoors in a well-ventilated area.
P273	Avoid release to the environment.
P280:	Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
P301/310:	F SWALLOWED: Immediately call a POISON CENTER.
P302+P352	IF ON SKIN: Wash with plenty of water.
P331:	Do NOT induce vomiting.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with
P305/351/338:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and
P337/313:	If eye irritation persists: Get medical advice.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up
P391	Collect spillage
P501	Dispose of contents/container in accordance with local/regional/ national regulations

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Ingredients:

Substance name (IUPAC)	CAS Number.	Concentration % by weight	Classification EC1272/2008	M-Factor
Deltamethrin	52918-63-5	2.5%	Acute Toxicity -Oral (Category 3) H301 Acute Toxicity -Inhalation (Category 3) H331 Aquatic Acute (Category 1) H400 Aquatic Chronic (Category 1) H410	M = 1000000 Acute M = 1000000 Chronic

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o-xylene	95-47-6	<90%	Flammable Liquid (Category 3) H226 Acute Toxicity Dermal (Category 4) H312 Acute Toxicity Inhalation (Category 4) H332 Skin Irritation (Category 2) H315	
Other ingredients		Balance to 100%		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4. FIRST AID MEASURES

Description of first aid measures:

General advice: Move out of dangerous area. Place and transport victim in stable position (lying sideways).

Remove contaminated clothing immediately and dispose of safely.

If inhaled: Move the victim to fresh air and keep at rest. Call a physician or poison control center immediately.

In case of inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if you feel unwell.

In case of skin contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Seek medical attention immediately.

In case of eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation develops and persists.

In case of ingestion: Rinse out mouth and give water in small sips to drink. Do NOT induce vomiting. Do not leave victim unattended. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt, or waistband.

Most important symptoms and effects, both acute and delayed:

Symptoms of exposure to the product :

Local: Skin and eye paraesthesia which may be severe, Usually transient with resolution within 24 hours, Skin, eye and mucous membrane irritation, Cough, Sneezing

Systemic: discomfort in the chest, Tachycardia, Hypotension, Nausea, Abdominal pain, Diarrhea, Vomiting, Blurred vision, Headache, Anorexia, Somnolence, Coma, Convulsions, Tremors, Prostration, Airway hyperreaction, Pulmonary oedema, Palpitation, Muscular fasciculation, Apathy, Dizziness

Indication of any immediate medical attention and special treatment needed:

This product contains a pyrethroid. Pyrethroid poisoning should not be confused with carbamate or organophosphate poisoning.

Treatment:

Systemic treatment: Initial treatment: symptomatic. Monitor: respiratory and cardiac functions. In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable. Keep respiratory tract clear. Oxygen or artificial respiration if needed. In case of convulsions, a benzodiazepine (e.g. diazepam) should be given according to standard regimens. If not effective, phenobarbital may be used. Contraindication: atropine. Contraindication: derivatives of adrenaline. There is no specific antidote. Recovery is spontaneous and without sequelae.

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SECTION 5. FIRE FIGHTING MEASURES**Extinguisher media:**

Suitable extinguisher media: Foam. Dry powder. Carbon dioxide. Water spray.

Small Fire: Extinguish small fires with carbon dioxide, dry powder, or alcohol-resistant foam.

Large Fire: Water spray can be used for larger fires or cooling of unaffected stock but avoid the accumulation of polluted run-off from the site.

Unsuitable extinguishing media: Do not use high volume water jet, due to contamination risk.

Special hazards arising from the mixture:

Fire Hazard: Flammable

Hazardous decomposition products in case of fire: Refer to Section 10: Stability and Reactivity.

Advice for fire-fighters:

Avoid inhaling hazardous vapours. Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Use an approved/certified respirator or equivalent.

Contain fire control agents for later disposal according to Section 13.

Water can be used to cool unaffected containers.

SECTION 6. ACCIDENTAL RELEASE**Personal precautions, protective equipment, and emergency procedures:**

Personal precautions: Avoid contact with spilled product or contaminated surfaces. Remove all sources of ignition.

Use personal protective equipment

For emergency responders: Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Use an approved/certified respirator or equivalent. Avoid contact with eyes and skin. Do not breathe in fumes. Refer to section 8 for recommended personal protective equipment. Evacuate unnecessary personnel.

Environmental precautions:

Stop leak if without risk. Prevent entry into drains, watercourses, or confined areas; dike if needed.

If the product contaminates public water, inform appropriate authorities immediately in accordance with local regulations.

Dispose in a safe manner in accordance with local/national regulations.

Methods for containment and cleaning up:

For small spills: Isolate area and keep unauthorized personnel away. Contain spilled material if possible. Avoid breathing vapours and avoid skin and eye contact. Remove sources of ignition. Wear PPE. Collect in suitable and properly labelled containers. Absorb with materials such as: sand, earth, vermiculite, or diatomaceous earth

For large spills : Isolate area and keep unauthorized personnel away. Contain spilled material if possible. Avoid breathing vapours and avoid skin and eye contact. Remove sources of ignition. Wear PPE. Contain and collect spillage with non-combustible, absorbent material e.g., sand, earth, vermiculite or diatomaceous earth and place in well labelled container for disposal according to local regulations. Prevent entry into drains, watercourses, confined areas, and prevent contact with vegetation.

Reference to other sections:

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for information on disposal.

SECTION 7. HANDLING AND STORAGE**Precautions for safe handling:**

Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored and processed.

Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and

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protective equipment before entering eating areas. Do not get in eyes or on skin or clothing.

Protective measures: Observe directions on label and instructions for use.

Advice on general occupational hygiene: Do not eat drink or smoke when handling this product.

Conditions for safe storage, including incompatibilities:

Store product in a segregated and approved area. Keep container in a cool, well-ventilated area at temperatures not exceeding 30 °C Keep container tightly closed and sealed until ready for use. Keep under lock and key out of reach of unauthorized persons, children, and animals. Store away from incompatible substances.

Specific end uses:

Use as directed. Use original container.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Components	CAS-No.	Value type (Form of exposure)	Control parameters
Deltamethrin	52918-63-5	TWA	0.02 mg/m ³

Exposure control:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. A Risk Assessment should be conducted before handling is to commence to determine specific exposure control.

Appropriate engineering controls: Provide exhaust ventilation or other engineering controls. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Hygiene measures: Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Use splash proof safety goggles.

Hand protection: Use chemical resistant gloves. Examples of preferred glove barrier materials include Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, Polyvinyl alcohol, Polyvinyl chloride.

Body protection: Appropriate impervious clothing is required to prevent skin contact with the product, apron, rubber boots.

Respiratory protection: An approved respirator suitable for protection from mists of pesticides is adequate. Limitations of respirator use specified by the approved agency and the manufacturer must be observed.

Environmental exposure controls: Prevent product from entry into sewers and water courses.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid
Colour	Off white
Odour	Characteristic of mineral spirits
Odour threshold	No data available
pH	4-6
Melting point / freezing point (°C)	Not applicable
Boiling point (°C)	No data available
Flash point (°C)	48 °C
Evaporation rate	No data available

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Flammability	Flammable
Upper /lower flammability limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density (25°C)	No data available
Water solubility (g/l) at 20°C	Dispersible
Partition coefficient : n-octanol/water	Deltamethrin: log Pow: 6.4 at 25 °C
Auto-ignition temperature (°C)	No data available
Decomposition temperature (°C)	No data available
Viscosity, dynamic (mPa s)	No data available
Explosive properties	No data available
Oxidising properties	No data available
Explosive limits	No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity: The product is stable under normal conditions.

Chemical stability: Stable under normal storage conditions for 2 years. Avoid excessive heat sources

Possibility of hazardous reactions: No information available.

Conditions to avoid: Avoid excessive heat and ignition sources.

Incompatible materials: None known

Hazardous decomposition products: No decomposition products expected under normal conditions of use

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution: No data available

Information on toxicological effects:

Assessment of acute toxicity:

The product has not been tested. The data reported is for the main ingredients in the mixture.

Deltamethrin CAS No. 52918-63-5	
Acute toxicity:	
Acute Oral LD ₅₀ (rat – male and female)	445 mg/kg
Acute Dermal LD ₅₀ (rat):	>2000 mg/kg
Acute Inhalation LC ₅₀ - 4 h (rat)	2.2 mg/l
Eye damage / irritation	Irritating to eyes
Respiratory or skin sensitization	Not a sensitiser
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific Target Organ Toxicity STOT single exposure	No data available
Specific Target Organ Toxicity STOT repeated exposure	No data available
Aspiration hazard	No data available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

O-Xylene CAS No. 95-47-6

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Acute toxicity:	
Acute Oral LD50 (rat - male)	3523mg/kg
Acute Dermal LD50 (rabbit):	12126 mg/kg
Acute Inhalation LC50 - 4 h (rat)	27.12 mg/l vapour
Skin irritation/ corrosion (rabbits)	Moderate skin irritation
Eye damage / irritation (rabbits)	No data available
Respiratory or skin sensitization	Not a sensitiser
<p>Germ cell mutagenicity: Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative</p> <p>Test Type: Mutagenicity (mammal cell test): chromosome aberration. Test system: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation Method: Mutagenicity (in vitro mammalian cytogenetic test) Result: negative</p> <p>Test Type: sister chromatid exchange assay Test system: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation Method: Regulation (EC) No. 440/2008, Annex, B.19 Result: negative</p>	
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific Target Organ Toxicity STOT single exposure	May cause respiratory irritation. - Respiratory system.
Specific Target Organ Toxicity STOT repeated exposure	No data available
Aspiration hazard	May be fatal if swallowed and enters airways. Aspiration hazard, Aspiration may cause pulmonary edema and pneumonitis

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12. ECOLOGICAL INFORMATION

Deltamethrin CAS No. 52918-63-5	
Toxicity	
Birds Acute oral LD50 Dietary LC50 (8 days)	>4640 mg/kg Mallard ducks >5620 mg/kg Bobwhite quail; >8039 mg/kg diet Mallard ducks

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Aquatic Toxicity Fish LC ₅₀ (96 hr) Aquatic Toxicity Daphnia LC ₅₀ (48 hr) Toxicity to algae – static test E _r C ₅₀ (96h) Toxicity to bees LD ₅₀ (oral) Worms LC ₅₀	0.91 µg/l Rainbow trout; 1.4 µg/l Bluegill sunfish 3.5 µg/l <i>Daphnia magna</i> >9.1 mg/l for green algae (<i>Selenastrum capricornutum</i>) 79 ng /bee >1290 mg/kg soil
Persistence and degradability	Not rapidly biodegradable.
Bioaccumulation potential	Does not bioaccumulate
Mobility in Soil	Immobile in soil
Result of PBT and vPvB assessment	This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).
Other adverse effects	Very toxic to aquatic life with long lasting effects.

O-Xylene CAS No. 95-47-6	
Toxicity	
Aquatic Toxicity Fish LC ₅₀ (96 hr) Aquatic Toxicity Daphnia semi static EC ₅₀ (96 hr) Toxicity to algae – static test EC ₅₀ (96h)	2.60 mg/l Rainbow trout No data available 4.36 mg/l <i>Pseudokirchneriella subcapitata</i>
Persistence and degradability	
Biodegradability-aerobic 20days	Readily biodegradeable
Bioaccumulation potential	No data available
Mobility in Soil	No data available
Result of PBT and vPvB assessment	No data available
Other adverse effects	No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Product:

Keep out of drains, sewers, ditches, and waterways. Refer to container label for disposal information. Treat as hazardous waste and dispose of in accordance with local/ regional/ national/ international regulations.

Container:

Refer to container label for disposal information. Triple or pressure rinse empty containers. Pour rinse water into spray tank. Dispose of as hazardous waste. Do not contaminate water when disposing of rinse water. Dispose of using an approved waste disposal service provider. Follow all local/ regional/ national/ international regulations.

SECTION 14. TRANSPORT INFORMATION

UN Number	3351
UN proper shipping name	Pyrethroid Pesticide; Liquid; Toxic; Flammable (Deltamethrin 25 g/l).
Transport hazard class	6.1 (3)
Packaging group	III
Marine pollutant	Yes

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SECTION 15. REGULATORY INFORMATION

Safety, health, and environmental regulations/legislation for the mixture:

Relevant information regarding authorization: Occupational Health and Safety Act 1993. Regulation for Hazardous Chemical Agents, 2021. UN Recommendations on the Transport of Dangerous Goods Model Regulations Rev. 21 (2019), Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev 8, 2019.

Relevant information regarding restrictions:

EU regulations: Regulation EC 1272/2008 [EU-GHS/CLP]

Other National regulations:

National Road Traffic Act, 1996 (ACT NO. 93 of 1996).

SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes.

National Environmental Management Waste Act 59 of 2008.

Act 36 of 1947 of the Republic of South Africa. This product is registered under 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

Chemical Safety Assessment carried out? No

SECTION 16. OTHER INFORMATION

Indication of changes:

Classification according to SANS 10234:2019, Regulation EC 1272/2008 [EU-GHS/CLP]
GHS aligned – all sections

Relevant H statements (number and full text):

H301-Toxic if swallowed

H331-Toxic if inhaled

H332-Harmful if inhaled

H312-Harmful in contact with skin

Training instructions:

Use as indicated on the label, special training may be required for application.

Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

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.