

P. O. Box: 29024 - 00100 GPO Nairobi - Kenya, Office Line: +254 20 240 3391 / 254 740 529 579
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MATERIAL SAFETY DATA SHEET

DELROS 25 SC (DELTAMETHRIN 2.5% SC)

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Identification of the substance : DELROS 25 EC (Deltamethrin 2.5% SC)

Use of the substance : Insecticide

Manufacturer/supplier : Tagros Chemicals India Limited

Address : Tagros Chemicals India Ltd.

"Jhaver Centre", Rajah Annamalai Building,

IV Floor, 72, Marshalls Road, Egmore, Chennai-600 008, India

Emergency telephone number : +91-44-42007400

Fax number : +91-44-28587873

E-mail : info@tagros.com

2. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS: EMERGENCY OVERVIEW

Eyes : May cause redness, pain and blurred vision.

Skin : May cause transient burning sensation and itching by

skin contact.

Ingestion : Harmful if swallowed, may cause abdominal pain,

convulsions, vomiting, unconsciousness, headache

and nausea if ingested.

Inhalation : May cause nose, irritation of respiratory tract, allergic

reactions, respiratory distress.

Environment: Very toxic to aquatic organisms may cause longterm

adverse effects in the aquatic environment.

Beyond Business

EAST AFRICAN BUSINESS COMPANY LIMITED

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3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS No.			EC No. % w/w	Classification	Con.
Deltamethrin (ISO), (S)-□-cyano-						
3- phenoxybenzy				T; R23/25		
I (1R,3R)-3- (2,2- dibromovinyl)-	52918-63-1	258-256-6	N; R50-53	2.5		
2,2dimethyl- cyclo-propane carboxylate						
Others				97.5		
4. FIRST AID MEASURES						
Contact with eyes	:	Wash with copious amount of water. Avoid exposing affected eyes to bright light. Seek medical advice and show the container or this material safety data sheet.				
Contact with skin	:	Remove contaminated clothing and clean the affected skin area. First, soak up any liquid remaining on the skin with readily disposable material (e.g., talcum powder or absorbent cloth or paper); wash the affected area with warm water and alkaline soap.				
Ingestion	:	Keep patient calm and reassured, rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Do not apply direct mouth to mouth respiration, use a disposable protective mouthpiece.				

^{1.} FIRE FIGHTING MEASURES



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Inhalation

If inhaled, remove to fresh air and keep at rest. Obtain medical aid if required.

Flash point : Non-flammable

Extinguishing media : If product is involved in a fire, use water spray, foam,

dry powder, carbon dioxide or sand.

Special exposure hazards : Deltamethrin decomposes in a fire to emit toxic

fumes of Br-, CN- and NOx.

Protective equipment for fire-fighting: Firefighters should wear NIOSH approved self-contained

breathing apparatus and full protective clothing.

Firefighting guidance : Keep out of smoke. Fight fire from upwind position.

Cool closed containers exposed to fire with water spray. Do not allow run-off from firefighting to

enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Avoid contact with spilled material or

contaminated surfaces. If ordinary clothing becomes contaminated, remove it immediately. When dealing with the spillage do not eat, drink or smoke and wear personal protective clothing as

detailed in section 8.

Environmental precautions : Keep people and animals away. Prevent entry into

drains, sewers and watercourses.

Methods for cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.

7. HANDLING AND STORAGE



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Handling

: Wear chemically impervious gloves such as neoprene or nitrile. Wear safety glasses, goggles or face shield. Mechanical ventilation should be used when handling this product in enclosed spaces. Read and observe all precautions and instructions on the label.

Storage

: Store in original containers, upright and closed. Store in areas that are cool, dry and well ventilated. Store away from seeds, fertilizers and animal feed stuff.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limit value : ADI: 0.01 mg/kg bw (JMPR)

Engineering controls: Mechanical ventilation should be used when handling

this product in closed spaces.

Respiratory protection: When respirators are required, select NIOSH

approved equipment based on actual or potential

airborne concentrations.

Hand protection : Wear chemical resistant nitrile gloves.

Eye protection : Wear safety goggles with imperforated side shield

and face shield.

Skin protection : Avoid contact with skin. Wear apron, boots and full

protective suit.

Environmental exposure controls: Keep away from food, drink and animal feed stuff.

This material and its container must be disposed off as hazardous waste. Avoid release to the environment. Refer to special instructions/safety

data sheet.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Liquid

Color : White to off-white

Odour : Odourless



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Molecular Weight : 505.2 (Deltamethrin)

pH : The pH of an aqueous dispersion shall be 4.5 to 7.5.

Persistent foam : Maximum: 50 ml after 1 min.

Wet sieve test : Maximum: 2% retained on a 75 µm test sieve.

Solubility in water : Miscible

Partition coefficient : $log P K_{OW} = 5.96$ (Deltamethrin)

10. STABILITY AND REACTIVITY

Stability : Stable under recommended storage conditions.

Conditions to avoid : Avoid excessive heat and direct sunlight

Materials to avoid : Strong oxidizing and alkaline materials

Incompatibility : Do not mix this product with any other spray or dip.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Rat LD₅₀ oral, Rats : >2000 mg/kg bw

Rat LD₅₀ dermal, Rats : >2000 mg/kg bw

Skin irritation : Non-irritant to skin of rabbits

Eye irritation : Non-irritant to eyes of rabbits

Skin sensitization : Non-sensitizer to skin of Guinea pigs.

Long term studies

Carcinogenicity : Non-carcinogenic in rat and mice

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Mutagenicity : Non-mutagenic

Reproductive toxicity : Non-reprotoxic and teratogenic

12. ECOLOGICAL INFORMATION

Ecotoxicity

Fish, Poecilia reticulata : LC₅₀ (96 h): 1.74 μg/l (Deltamethrin)

Daphnia magna

Algae, Chlorella vulgaris

EC₅₀: 22.77 \square g/ml (Deltamethrin)

: EC₅₀ (24 h) 4.15 □g/l (Deltamethrin)

Bees, Apis indica : LD₅₀: 0.52 ppm (Deltamethrin)

Earthworms, Lampito mauritii

Birds, Japanese Quails

LD₅₀:> 1000 mg/kg dry soil weight (Deltamethrin)

 LC_{50} : > 5000 ppm (Deltamethrin)

Mobility : Deltamethrin is classified as a low-mobility to

immobile compound in soils.

Persistence and degradability

Deltamethrin is not persistent in the environment. It is degraded by soil microorganisms and does not

leave residues in the environment.

13. DISPOSAL CONSIDERATIONS

Product disposal : Do not empty into drains or waterways. Disposal of

product would usually be by incineration in an appropriate licensed commercial incinerator. Advice may be obtained from local waste regulation

authorities.

Container disposal : Puncture container to avoid re-use. Dispose of empty

container in a sanitary landfill or by incineration, or, if allowed by local authorities, by burning. If burned, stay out of smoke. Follow advice on

product label and/or leaflet.

14. TRANSPORT INFORMATION



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UN number : 3352

UN class : 6.1

UN packaging group : $^{
m III}$

Proper Shipping Name : PYRETHROID PESTICIDE LIQUID, TOXIC

Additional information : Deltamethrin designated as marine pollutant.

15. REGULATORY INFORMATION

Classification : N: Dangerous for the environment

Risk Phrases : R23: Toxic by inhalation.

R25: Toxic if swallowed.

R36/37/38: Irritating to eyes, respiratory system and

skin.

R50/53: Very toxic to aquatic organisms and may

cause

long-term adverse effects in the aquatic

environment.

Safety Phrases : S2: Keep out of the reach of children.

S13: Keep away from food, drink and animal feeding

stuffs.

S20/21: When using does not eat, drink or smoke.

S23: Do not breathe gas/fumes/vapour/spray.

S24/25: Avoid contact with skin and eyes.

S36/37/39 - Wear suitable protective clothing, gloves

and eye/face protection.

S29/56: Do not empty into drains, dispose of this material and its container at hazardous or special

waste collection point.

S61: Avoid release to the environment. Refer to

special instructions/safety data sheets

Reference regulation : Regulation (EC) No 1907/2006



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16. OTHER INFORMATION

MSDS first issued : 18th June 2002

MSDS data revised : 18th June 2020

Disclaimer

The Content given here in, are as per the declaration given by the manufacturer and EABCL Claims zero Responsibility.

DISCLAIMER

The above information is intended to give general health and safety guidance on the storage and transport of the substance or product to which it relates. It is not intended to apply to the substance or product for which purposes the substance or product label and any appropriate technical usage literature available should be consulted and any relevant licenses, consents or approvals complied with. The requirement or recommendation of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product should take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given. The information provided in this safety data sheet is accurate at the date of publication and will be updated as and when appropriate. No liability will be accepted for any injury loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.