

Material Safety Data Sheet
דלתא סופר – Delta Super

Revised: 21.07.10

1. IDENTIFICATION OF SUBSTANCE AND COMPANY

Common name: Delta Super

Formulation Type: SE

Manufacturer: Tapazol Chemical works ltd.

Address: HaSolela 1, West ind. Zone, Beit Shemesh, 99052.

Tel: 972-2-992-6040 **Fax:** 972-2-9926050 **e-mail:** info@tapazol.co.il

2. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS no.	Quantity (%)
Deltamethrin	52918-63-5	2.5
S-Bioallethrin	28434-00-6	2

Active ingredients chemical family: Pyrethroid

3. HAZARDS IDENTIFICATION

Human hazards: Harmful by inhalation.

Environmental hazards: The active ingredients are toxic to fish and other aquatic organisms, do not contaminate ponds and waterways. The active ingredient Deltamethrin is also toxic to bees.

4. FIRST AID MEASURES

Eyes: Rinse immediately with cool water for at least 15 minutes. Seek medical advice immediately. Symptoms: Sensations of eye irritation may occur.

Skin: Remove all contaminated clothes and shoes. Wash off skin immediately with soap and plenty of water. Seek medical advice if irritation occurs/persists.

Ingestion: Wash out mouth with water. Ensure airway is clear. Do not give anything to eat or drink. Seek medical advice immediately. DO NOT induce vomiting.

Symptoms: Burning sensations in the mouth, nausea, vomiting, headaches and dizziness.

Inhalation: Remove patient to fresh air, rest and keep warm. Should inhalation occur, seek medical advice immediately. Symptoms: Upper airway irritation, headaches, and dizziness.

Note to physician: No specific antidote, treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable properties: Not combustible.

Extinguishing media: Foam, dry agent, carbon dioxide. Do not use water jet.

Protective equipment: Self-contained breathing apparatus and suitable protective clothing.

Hazardous products of combustion may include: Irritating and toxic fumes.

Other Recommendations: DO NOT release contaminated water into the environment. Keep cool by spraying with water.

6. ACCIDENTAL RELEASE MEASURES

Personal protection: Wear suitable protective clothing and boots. For spills in public area, keep public away and advise local authorities.

Environmental Protection: Do not allow to enter drains and sewers.

Procedure: Eliminate source of ignition. Prevent additional discharge of material. Absorb with sand, earth or other inert material and transfer to a closed container for safe disposal. Decontaminate spillage site thoroughly.

7. HANDLING AND STORAGE

Storage: Keep in original container and tightly closed. Protect from direct sunlight and store in a cool, dry place.

Keep out of reach from children and away from food, drink and animal feed stuffs.

Handling: Do not eat, drink or smoke while handling with the product.

Wash hands and exposed skin after work and before meals.

After finishing working with the product, change clothes and wash them in separate from household laundry. Do not re-use clothes that are unwashed.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering controls: Local exhaust ventilation is recommended to control process emission near the source.

Eye/ Face protection: Safety glasses.

Skin/Body protection: Coverall, boots.

Respiratory protection: NIOSH approved respirator.

Hand protection: Nitrile or neoprene gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White opaque viscous liquid.

Solubility: Immiscible with oil, dilutes in water.

Density: 1.02 g/ml (20⁰C)

pH: 4.8

10. STABILITY AND REACTIVITY

Chemical stability: Stable under ordinary conditions of use and storage.

Conditions to avoid: Heat, flame, ignition sources.

Hazardous decomposition products: Complete combustion will emit carbon dioxide and water when heated to decomposition.

Hazardous polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Oral: LD50 for rat: >5000 mg/kg. Exposure may cause Burning sensations in mouth, nausea, vomiting, headaches, and dizziness.

Dermal: LD50 for rat: >5000 mg/kg.

Inhalation: LC50 for rat: >4.7 mg/l. Exposure may cause upper airway irritation, headaches, dizziness.

Skin and eye irritation: Non-irritant.

Skin sensitization: Non-sensitizing.

12. ECOLOGICAL INFORMATION

For AI Deltamethrin:

Fish: LC50 (96h) for rainbow trout: 0.91 microgram/l, for bluegill sunfish: 1.4 microgram/l. The material is toxic to fish under laboratory conditions, but not under field conditions.

Daphnia: LC50 (48h): 3.5 microgram/l.

Birds: LD50 for mallard ducks: >4640 mg/kg. Dietary LC50 (8d) for mallard ducks: >8039 mg/kg diet.

Bees: Toxic to bees. LD50 (oral): 79 nanogram/bee, LD50 (contact): 51 nanogram/bee. The substance is toxic under laboratory conditions but in normal field use it does have significant hazard to bees.

For AI S-bioallethrin:

Fish: LC50 (96h) for rainbow trout: 0.01 mg/l, for bluegill sunfish: 0.033 mg/l, for yellow perch: 0.0078 mg/l.

Birds: Oral LD50 for mallard ducks and bobwhite quail: >5000 mg/kg.

13. DISPOSAL CONSIDERATIONS

Dispose of according to local regulations. Avoid entry of product into sewer system or water surfaces.

14. TRANSPORT INFORMATION

By Air (ICAO): Not restricted

By Road (ADR): Not restricted

By Sea (IMDG): MARINE POLLUTANT

UN no.: 3082 (Environmentally hazardous substances, liquid, n.o.s)

Class: 9

Packaging group: III

15. REGULATORY INFORMATION

R phrases:

R51/53: Toxic to aquatic organisms, May cause long-term adverse effects in the aquatic environment

R57: Toxic to bees

S phrases:

S1/2: Keep locked up and out of the reach of children

S3/7/9: Keep container tightly closed in a cool, well-ventilated place

S29/35: Do not empty into drains; dispose of this material and its container in a safe way

16. OTHER INFORMATION

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