

Material Safety Data Sheet

Thiodol - תיודול

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1. IDENTIFICATION OF SUBSTANCE AND COMPANY

Common name: Thiodol

Formulation Type: EC

Use: Insecticide

Supplier/Manufacturer: Tapazol Chemical works Ltd.

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS no.	Quantity (g/l)
Endosulfan (1,2,3,4,7-7hexachloro-8,9,10 trinorborn-2-en-5,6- ylenedimethyl sulfite)	115-29-7	350
Xylene (o-,m,p-isomers)	1330-20-7	550-650

AI chemical family: Organochlorine.

3. HAZARDS IDENTIFICATION

Human hazards: Highly toxic if swallowed. Moderately toxic if inhaled and in contact with skin. May cause eye and skin irritation.

Environmental hazards: Highly toxic to fish and aquatic organisms.

4. FIRST AID MEASURES

Eyes: Immediately rinse eyes thoroughly including under eyelids, with running water for at least 15 minutes. Seek medical advice.

Skin: Immediately remove all contaminated clothing and footwear. Wash the skin thoroughly with soap and water.

Ingestion: If poisoning occurs, contact a doctor or Poisons Information Center immediately. Wash mouth with water. Do not induce vomiting and do not give anything by mouth to an unconscious person.

Inhalation: Remove from the source of vapor/spray/fumes to fresh air. Keep warm and at rest. If breathing stops, start artificial respiration. Seek medical advice immediately.

Note to physician: There is no specific antidote, treat symptomatically.

If ingested perform gastric lavage or treat with IPECAC (only if person is conscious).

Administer activated charcoal.

If person suffers from convulsions treat with Diazepam, Phenobarbital.

5. FIRE-FIGHTING MEASURES

Flammable properties: Combustible liquid – store away from fire.

Flash point: >29°C.

Extinguishing media: Fine water spray, dry agent, carbon dioxide, foam.

Personal protection and Procedure: Fire fighters should wear full body protective clothing with self-contained breathing apparatus. In case of fire, prevent by any means possible spillage from entering drains or watercourses. Consider evacuation, taking all relevant factors into account. In case of doubt, evacuate immediate vicinity and request emergency services assistance. Move all other personnel to windward side of fire.

Hazardous products of combustion may include: CO, CO₂, hydrogen chloride and oxides of sulfur.

6. ACCIDENTAL RELEASE MEASURES

Personal protection: Wear personal protective equipment as prescribed in section 8 – "Exposure controls/Personal protection".

Environmental Protection: In case of spillage, prevent the material from entering drains or watercourses.

Procedure: Absorb with material such as sand or sawdust. Dike area in case of large spills. Do not use water for cleanup. Report large spills.

For spills in public area, keep public away and advise local authorities.

Wash clothes, equipment and work area after cleaning.

7. HANDLING AND STORAGE

Storage: Store in tightly closed original container in a cool, dry well-ventilated area out of direct sunlight and out from the reach of children. Do not store with food, feedstuffs, fertilizers and seeds.

Handling: Wear personal protective equipment as prescribed in section 8 – "Exposure controls/Personal protection".

Do not eat, drink or smoke while handling.

Change clothes and wash thoroughly when finishing working with the product.

Wash working clothes in separate from household laundry and do not re-use clothes that are not washed.

See product label for further handling/storage precautions relative to the end use of this product.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Occupational exposure: Endosulfan: 0.1 mg/m³, A4 skin (TLV),
Xylene: 434 mg/m³ (TLV), A4 .

Engineering controls: Use only in well ventilated areas.

Eye/ Face protection: Wear safety goggles or face shield.

Skin/Body protection: Wear waterproof clothing, and water resistant footwear, and washable hat.

Hand protection: Wear elbow length PVC gloves.

Respiratory protection: Do not breathe vapor/spray/fumes. Respiratory protection is recommend during handling. Wear a full-face respirator with approved chemical filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light to dark brown liquid.

Odor: Hydrocarbon Odor.

Flash point: >29°C.

Specific Gravity: 1.08.

pH: 5.5-6.5 (10g/l sol. in water).

Water solubility: Forms an emulsion.

10. STABILITY AND REACTIVITY

Stability: Stable under ordinary conditions of use and storage.

Hazardous products of combustion may include: CO, CO₂, hydrogen chloride and oxides of sulfur.

Conditions to Avoid: Heat, flame, ignition sources, dusting.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Oral: LD50 for rat: 36 mg/kg.

Dermal: LD50 for rat: 400 mg/kg.

Inhalation: LC50 (4h, rat): 0.34 – 0.76 mg/l.

Skin irritation: Moderately irritating (rabbit).

Eye irritation: Irritating (rabbit).

Skin sensitization: Non-sensitizer (guinea pig).

Chronic toxicity:

The AI Endosulfan is not carcinogenic, mutagenic or teratogenic.

12. ECOLOGICAL INFORMATION

For AI Endosulfan:

Highly toxic to fish, but in practical use should be harmless to wild life.

Fish: LC50 (96 h) for Golden Orfe: 0.002 mg/l.

Daphnia: LC50 (48h): 75-750 microgram/l.

Algae: EC50 (72h) for green algae: 0.56 mg/l.

Birds: Oral LD50 for Mallard Duck: 205 – 245 mg/kg, for Ring-necked pheasants:
620 – 1000 mg/kg.

Bees: Not hazardous to bees under field use conditions.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

UN no.: 2995 (Organochlorine pesticides, liquid, toxic, flammable, Endosulfan).

Class: 6.1

Packaging group: III

Marine pollutant when transported on marine waters.

15. REGULATORY INFORMATION

R phrases:

R10: Flammable

R23/24/25: Toxic by inhalation, contact with skin and if swallowed.

R36/38: Irritating to eyes and skin.

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

16. OTHER INFORMATION

Disclaimer: The information provided by TAPAZOL CHEMICAL WORKS Ltd.

In the above document is given in good faith and to the best of our knowledge. However, no warranty is expressed or implied.
