

Material Safety Data Sheet

תירזן - Tirzan

Revised: 11.06.12

Previous revision date: 15.10.05

1. IDENTIFICATION OF SUBSTANCE AND COMPANY

Common name: Tirzan

Use: Fungicide

Formulation Type: DP

Manufacturer: Tapazol Chemical works ltd.

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS no.	Quantity (%)
Thiram (TMTD)	137-26-8	50
Other inert ingredients	N/A	Till 100

3. HAZARDS IDENTIFICATION

Human hazards: The product is harmful by inhalation and if swallowed and may cause irritation to eyes and respiratory system. The product may cause may cause skin sensitization.

Environmental hazards: Very toxic to aquatic organisms.

Other hazards: Consumption of alcohol may increases toxic effect.

dust may form explosive mixture with air.



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4. FIRST AID MEASURES

Eyes: Flush eyes with large amounts of water while eyelids are open. If irritation develops and persists, get medical attention.

Skin: Flush with large amounts of water. Remove grossly contaminated clothing, including shoes, and launder before reuse. If irritation develops and persists, get medical attention.

Ingestion: If swallowed, DO NOT induce vomiting. Give 1-2 glasses of water to drink, keep at rest and get prompt medical attention.

Inhalation: Immediately remove the affected victim from exposure to an area of fresh air. Administer artificial respiration if breathing has stopped. Keep at rest and call for prompt medical attention.

Note to physician: No specific antidote, treat symptomatically. Use of alcoholic beverages may enhance toxic effects.

5. FIRE-FIGHTING MEASURES

Flash point: N/A

Flammable properties: Not flammable, but dust may form explosive mixture with air.

Extinguishing media: Water spray, foam, dry chemical, CO₂.

Protective equipment: Normal protective equipment and self-contained breathing apparatus.

Hazardous products of combustion may include: Smoke, toxic and irritating gases.

More information: Do not allow run-off from the fire enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

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

Environmental Protection: Prevent the material from entering sewage and water courses.

Procedure: Sweep and collect into containers for disposal. Dike area in case of large spills. 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".

Avoid dust formation and control ignition sources. Employ grounding, venting and explosion relief provisions in accord with accepted engineering practices in any process capable of generating dust and/or static electricity.

Empty only into inert or non-flammable atmosphere. Emptying contents into a non-inert atmosphere where flammable vapors may be present could cause a flash fire or explosion due to electrostatic discharge.

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.



8. EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering controls: If airborne mists or vapors are likely to be generated, use local exhaust ventilation controls.

Eye/ Face protection: Chemical goggles with side shields are required.

Skin/Body protection: Long working clothes, closed shoes with socks and chemical resistant gloves.

Respiratory protection: If airborne concentration may be high, an approved dust mask is needed.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White to light brown solid.

Odor: None.

Melting point: 145⁰C.

Solubility: Soluble in acetone and chloroform.

Water solubility: Not soluble.

10. STABILITY AND REACTIVITY

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

Conditions to avoid: Heat, flame, ignition sources, strong acids and bases, dusting.

Hazardous polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Oral: LD50 for rat: 1800-3700 mg/kg.

Dermal: LD50 for rat: >2000 mg/kg.

Inhalation: LC50 for rat (4h): 3.46-5.04 mg/l. Inhalation may cause respiratory tract irritation.

Skin irritation: Non-irritant.

Eye irritation: Irritant.

Skin sensitization: Sensitizer (guinea pig).

Chronic toxicity: The AI does not have carcinogenic, developmental and reproductive effects.

12. ECOLOGICAL INFORMATION

For the AI Thiram:

Fish: LC50 (96h) for bluegill sunfish: 0.13 mg/l, for rainbow trout: 0.046 mg/l.

Daphnia: LC50 (48h): 0.011 mg/l.

Algae: EC50 (72h): 0.065 mg/l.

Birds: Acute oral LD50 for male ring-necked pheasants: 673 mg/kg, for mallard ducks: >2800 mg/kg, for starlings and redwing blackbirds: >100 mg/kg.

Dietary LC50 (5d) for ring-necked pheasants, mallard ducks and japanese quail: >5000 ppm, for bobwhite quail: >3950 ppm.

Bees: LD50 (oral and contact): >100 µg/bee.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

Proper Shipping name: Environmentally hazardous substance, solid, N.O.S (Thiram)

UN no.: 3077

Class: 9

Packaging group: III

15. REGULATORY INFORMATION

R phrases:

R20/22: Harmful by inhalation and if swallowed

R36/37: Irritating to eyes and respiratory system

R43: May cause sensitization by skin contact

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

16. OTHER INFORMATION

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