

Material Safety Data Sheet

Barak - ברק

Date of issue: 02.2008

Version: 3

Revised: 08.01.12 (update of acute inhalation toxicity result)

1. IDENTIFICATION OF SUBSTANCE AND COMPANY

Common name: Barak

Use: Fungicide

Formulation Type: SC

Manufacturer: Tapazol Chemical works Ltd.

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS no.	Quantity (g/l)
Chlorothalonil	1897-45-6	720
Propylene Glycol	57-55-6	70-80
Other non-hazardous ingredients	N/A	Till 1 liter

3. HAZARDS IDENTIFICATION

Human hazards: The product is harmful by ingestion, inhalation and in contact with skin. It may cause eye and skin irritation and skin sensitization.

Chlorothalonil is classified as possible human carcinogen. Propylene glycol may have chronic effects.

Environmental hazards: Toxic to aquatic organisms.



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4. FIRST AID MEASURES

Eyes: Immediately flush with large amounts of water for at least 15 minutes. Seek medical attention.

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

Ingestion: If swallowed, DO NOT induce vomiting. Keep at rest and get prompt medical attention.

Inhalation: If inhaled, move the victim to fresh air immediately. Begin artificial respiration if breathing has stopped. Get medical attention.

Note to physician: No specific antidote, treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash point: >100°C.

Flammable properties: Not flammable.

Extinguishing media: Water spray, dry chemical, CO₂. Do not use direct water jet.

Protective equipment: Self-contained breathing apparatus.

Hazardous products of combustion may include: Toxic and irritant gases, such as HCl, COx, NOx.

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: Absorb with absorbent material (sand, soil) 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".

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: General (mechanical) room ventilation is considered satisfactory.

Eye/ Face protection: Chemical goggles or face shield where splash may occur.

Skin/Body protection: Long working clothes, closed working shoes, PVC gloves.

Respiratory protection: Approved respirator to avoid mist inhalation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellowish-brownish liquid.

Boiling point: >100°C.

Water solubility: Dispersible.

Density: 1.064 g/ml.

Vapor pressure: 0.076 mPa (for Al Chlorothalonil).

Viscosity: 8-12 mPas.

10. STABILITY AND REACTIVITY

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

Conditions to avoid: Heat, flame, ignition sources.

Hazardous polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

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

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

Inhalation: LC50 for rat: 0.626 mg/l, LC01: 0.2002 mg/l.

Skin irritation: Moderate irritant (rabbit).

Eye irritation: Mild irritant.

Skin sensitization: Sensitizer (mouse).

Chronic toxicity:

Animal studies at high doses of Chlorothalonil have shown an increase in tumors development.

Based on animal data, the non-active material Propylene glycol may cause mutagenic, reproductive and teratogenic effects.

12. ECOLOGICAL INFORMATION

For AI Chlorothalonil:

Fish: LC50 (96h) for rainbow trout: 47 µ/l, for bluegill sunfish: 59 µ/l.

Daphnia: LC50 (48h): 70 µ/l.

Birds: Acute oral LD50 for mallard ducks: >4640 mg/kg. Dietary LC50 (8d) for mallard ducks and bobwhite quail: >10000 mg/kg diet.

Bees: LD 50: >63 microgram/bee (oral), >101 microgram/bee (contact).

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

UN no.: 3082 (Environmentally hazardous substance, liquid).

Class: 9

Packaging group: III

15. REGULATORY INFORMATION

R phrases:

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed

R36/38: Irritating to eyes and skin

R40: Limited evidence of carcinogenic effect

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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