

Material Safety Data Sheet

ברקוד - Barkod

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Version: 3

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1. IDENTIFICATION OF SUBSTANCE AND COMPANY

Common name: Barkod

Use: Fungicide

Formulation Type: SC

Manufacturer: Tapazol Chemical works ltd.

Address: 1st HaSolela st., West ind. Zone, Beit Shemesh, 9905415.

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

2. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS no.	Quantity (g/l)
Chlorothalonil	1897-45-6	400
Dimethomorph	110488-70-5	80
Propylene Glycol	57-55-6	60-80
Other non-hazardous materials	N/A	Till 1 liter

3. HAZARDS IDENTIFICATION

Human hazards: The product is and cause eye irritation and skin sensitization.

Chlorothalonil is classified as a possible human carcinogen.

Propylene glycol may have chronic effects.



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Environmental hazards: Very toxic to aquatic organisms. Could leach to ground water

4. FIRST AID MEASURES

Eyes: Flush eyes with large amounts of water while eyelids are open for at least 15 minutes. 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. 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.

5. FIRE-FIGHTING MEASURES

Flash point: >100°C.

Flammable properties: Not flammable.

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 (carbon oxides, nitrogen oxides, acid halides).

More information: Keep unnecessary people away. If it can be done safely, remove intact containers from the fire. Otherwise, use water spray to cool them.

Do not allow run-off from the fire enter drains or water courses. Dispose of fire control water or other extinguishing agent and spillage safely later.

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 material such as sand or earth 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.

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

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering controls: Normally ventilation is enough, but if airborne mists or vapors are likely to be generated and be high, use local exhaust ventilation controls. Provide eyewash station and safety shower in the vicinity of the work area.

Eye/ Face protection: Chemical goggles with side shields (EN 166).

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

Respiratory protection: Normally not required, but if airborne concentration may be high, approved Half-face mask (EN-140) with integrated filter ABEK-1 P3 (EN 14387) is needed

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Off white liquid.

Boiling point: >100°C

Flash point: >100°C

Water solubility: Forms a suspension.

Density: 1-1.3

pH: 7

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.

Hazardous polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Oral: LD50 for rat: 2000<x<5000 mg/kg.

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

Inhalation: LC50 (4h) for rat: >2.13 mg/l.

Skin irritation: Not irritant.

Eye irritation: Irritating to eyes.

Skin sensitization: Skin sensitizer.

Chronic toxicity:

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

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

12. ECOLOGICAL INFORMATION

For AI Chlorothalonil:

Fish: LC50 (96h) for rainbow trout: 39 µ/l, for bluegill sunfish: 59 µ/l.

Daphnia: LC50 (48h): 70 µ/l.

Algae: EC50 (120h): 210 µ/l, EC50 (72h): 5.1 µ/l.

Birds: Acute oral LD50 for bobwhite quail: >2000 mg/kg. Dietary LC50 (5d) for mallard ducks and bobwhite quail: >10000 mg/kg diet.

Bees: LD50: >63 microgram/bee (oral), >101 microgram/bee (contact).

Earthworms: LC50 (14d): 404 mg/kg dry soil.

For AI Dimethomorph:

Fish: LC50 (96h) for Rainbow trout: 6.2 mg/l, for bluegill sunfish: >25 mg/l.

Daphnia: EC50 (48h): 10.6 mg/l.

Algae: EC50 (96h): 29.2 mg/l.

Birds: Acute oral LD50 for mallard ducks and bobwhite quail: >2000 mg/kg.

Dietary LC50: >5200 ppm.

Bees: LD50 (48 h): >32.4 µg/bee (oral), >102 µg/bee (contact).

13. DISPOSAL CONSIDERATIONS

Dispose of according to local regulations. Avoid entry of product into sewer system or water surfaces. Do not re-use empty container for any other purpose.

14. TRANSPORT INFORMATION

Proper Shipping name: Environmentally hazardous substance, liquid

UN no.: 3082

Class: 9

Packaging group: III

15. REGULATORY INFORMATION



Acute hazards to the aquatic environment, category 1.



Eye irritation, category 2A

hazard statement:

H317: May cause an allergic skin reaction

H320: Causes eye irritation

H350: May cause cancer

H373: May cause damage to organs through prolonged or repeated exposure

H410: Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P102: Keep out of reach of children

P103: Read label before use

P270: Do not eat, drink or smoke when using this product

P235+410: Keep cool. Protect from sunlight

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.



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