

Material Safety Data Sheet

פרפקט - Perfect

Date of issue: 02.2010

Revised: 05.04.12

Version: 3

1. IDENTIFICATION OF SUBSTANCE AND COMPANY

Common name: Perfect

Formulation Type: EC

Use: Insecticide

Manufacturer: Tapazol Chemical works Ltd.

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

Tel: 972-2-992-6040 **Fax:** 972-2-9926050

2. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS no.	Quantity (g/l)
Emamectin benzoate	155569-91-8	19.2
Hexanol	111-27-3	400-500
Other non-hazardous ingredients	-	Till 1 liter

3. HAZARDS IDENTIFICATION

Health Hazards: The product is toxic if swallowed and harmful in contact with skin and if inhaled. It may cause slight skin and eye irritation.

Environmental hazard: The product is very toxic to fish and aquatic organisms and toxic to bees.

4. FIRST AID MEASURES

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

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

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

Inhalation: 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

Flashpoint: 60°C (ASTM D-93/A).

Flammable properties: Combustible liquid.

Extinguishing media: Dry chemical, foam, carbon dioxide or water spray (do not use direct jet of water).

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

Protective equipment: Use self contained breathing apparatus and wear protective equipment.

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: Absorb with material such as sand or sawdust 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. Combustible liquid - do not store at temperatures above 40°C.

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

Respiratory Protection: In case of heavy exposure wear an approved respirator with ABEK filter.

Eye/Face Protection: Chemical goggles or face-shield.

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

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow to green transparent liquid.

Flashpoint: 60°C (ASTM D-93/A).

Density: 0.87 g/ml (20-25°C).

Solubility in water: Not soluble.

pH: 5.58 (1% in deionised water, 20 - 25°C)

Viscosity: N/A

10. STABILITY AND REACTIVITY

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: 300-2000 mg/kg.

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

Inhalation: LC50 (rat, 4h): 1.6658 mg/l.

Skin irritation: Slight irritant (rabbits).

Eye irritation: Minimal irritant (rabbits).

Skin sensitization: Non-sensitizing (mice).

12. ECOLOGICAL INFORMATION

For AI Emamectin Benzoate:

Fish: LC50 (96h) for rainbow trout: 174 µg/l, for sheepshead minnow: 1430 µg/l.

Daphnia: LC50: 0.99 µg/l.

Birds: Acute oral LD50 for mallard ducks: 46 mg/kg, for bobwhite quail: 264 mg/kg.

Dietary LC50 (8d) for mallard ducks: 570 ppm, for bobwhite quail: 1318 ppm.

Bees: Toxic to bees.

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:

R25: Toxic if swallowed

R21: Harmful in contact with skin

R36/38: Irritating to eyes and skin

R50/53: Very toxic to aquatic organisms,

R57: Toxic to bees

16. OTHER INFORMATION

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