

Material Safety Data Sheet

Biomectin – ביומקטין

Revised: 19.07.2010

1. IDENTIFICATION OF SUBSTANCE AND COMPANY

Common name: Biomectin

Formulation Type: EC

Use: Insecticide

Supplier/Manufacturer: Tapazol Chemical works Ltd.

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

Tel: 972-2-992-6040, **Fax:** 02-9926050, **e-mail:** info@tapazol.co.il

2. COMPOSITION/INFORMATION ON INGREDIENTS

| Name | CAS no. | Quantity (g/l) |
|-----------|------------|----------------|
| Abamectin | 71751-41-2 | 18 |

3. HAZARDS IDENTIFICATION

Human hazards: Moderately toxic by ingestion and slightly toxic in contact with skin.
May cause moderate eye irritation.

Environmental hazards: The active ingredient Abamectin is toxic to birds, bees, fish and aquatic organisms.

4. FIRST AID MEASURES

Eye contact: Flush eyes with large amount of water for 15 minutes. Get medical attention.

Skin contact: Flush with large amount of water; use soap or detergent if available. Remove grossly contaminated clothing, including shoes, and launder before reuse.

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

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

Notes to physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash point: 71.2°C. Combustible liquid – store away from fire.

Extinguishing media: Foam, dry chemical, water spray.

Hazardous products of combustion may include: Toxic gases including CO, CO₂ and smoke.

Firefighting precaution: Follow environmental and personal safety precautions noted for spill or leak. Wear self-contained breathing apparatus and full protective clothing. Move container from fire area if you can do it without risk. Keep upwind and evacuate personnel in the immediate area.

Follow post-fire decontamination procedures including thorough washing of all fire fighting clothing and equipment. Fire fighters must thoroughly wash immediately following incident Fire and Explosion Hazards.

Special Fire Fighting Procedures: Fire fighters should wear full body protective clothing with self-contained breathing apparatus. 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.

6. ACCIDENTAL RELEASE MEASURES

Spills or leak procedures: Personnel involved in clean-up should wear full-body protective clothing, with self-contained breathing apparatus. Prevent the material from entering drains or watercourses. Remove with liquid binding material (e.g. sand, soil or diatomaceous earth). Contain large volumes of spilt material with sand or earth. Place into suitable containers and dispose at an authorized disposal site. Decontaminate spill area with detergent and water and rinse with water.

7. HANDLING AND STORAGE

Handling: May be harmful if inhaled, do not breathe spray mist. Harmful if swallowed or absorbed through skin, avoid contact with eyes, skin or clothing.

Do not eat, drink or smoke while handling with the product.

Wash thoroughly with soap and water after handling and change clothes. Launder working clothes in separate from household laundry and do not wear clothes that are not washed.

Storage: Keep out of the reach of children. Store in a tightly closed original container in a cool, dry and well-ventilated location. Do not store near heat or flame. Do not reuse empty container.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

For manufacturing and packaging employees the personal protective equipment (PPE) in accordance with OSHA standards is recommended as below.

Engineering controls: Provide local exhaust or process enclosure ventilation system. Ventilation equipment should be explosion-resistant if explosive concentrations of material are present.

Eye/Face protection: Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin/Body protection: Wear appropriate chemical resistant gloves, long-sleeved shirt, slacks and boots.

Respiratory protection: Ensure good ventilation. For maximum protection, wear a supplied air, full-face piece respirator, air lined hood, or full-face piece self-contained breathing apparatus.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light to dark brown liquid.

Odor: Hydrocarbon Odor.

pH: 2.6-3.6 (1% solution).

Flash point: 71.2 °C.

Water solubility: Forms an emulsion.

Specific Gravity: 1.08 g/ml.

10. STABILITY AND REACTIVITY

Chemical stability: Stable at normal temperatures and storage conditions.

Conditions to avoid: Heat, flame, ignition sources. Avoid mixing with nitric acid, sulfuric acid and strong oxidizing agent.

Hazardous decomposition products: Toxic and irritating gases as CO, CO₂ and smoke.

Hazardous polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Oral: LD50 for rats: 300-2000 mg/kg.

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

Inhalation: LC50 (4h) for rat: 7.8 mg/L.

Skin irritation: Non-irritant. (Rabbit)

Eye irritation: Moderate irritant. (Rabbit)

Skin sensitization: Non-sensitizer. (Mouse)

12. ECOLOGICAL INFORMATION

For AI Abamectin:

Fish: LC50 (96 h) for rainbow trout 3.2µg/L, bluegill sunfish 9.6µg/L.

Daphnia: EC50 (48h): 0.34 ppb.

Algae (72h): >100 mg/l.

Birds: Acute oral LD50 for mallard ducks 84.6, bobwhite quail >2000mg/kg.

Bees: Toxic to bees.

13. DISPOSAL CONSIDERATIONS

Disposal of product would be treated, stored, transported, and disposed of according to the local waste regulation authority. Do not flush to surface water or sanitary sewer system. Do not reuse empty container.

14. TRANSPORT INFORMATION

UN no.: 2902 (Pesticide, Liquid, Toxic, NOS)

Class: 6.1

Packaging group: III

Marine Pollutant: Yes.

15. REGULATORY INFORMATION

R phrases:

R21/22: Harmful in contact with skin and if swallowed

R36: Irritating to eyes

R51: Toxic to aquatic organisms

R53: May cause long-term adverse effects in the aquatic environment

R57: Toxic to bees

16. OTHER INFORMATION

Disclaimer: The information provided by TAPAZOL CHEMICAL WORKS Ltd.

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