

## Material Safety Data Sheet EITAN

Date of issue: 07.05.12  
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Revised: 27.01.2015

### 1. IDENTIFICATION OF SUBSTANCE AND COMPANY

**Common name:** Eitan

**Use:** Fungicide

**Formulation Type:** SC

**Manufacturer:** Tapazol Chemical works Ltd.

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

**Tel:** 972-2-992-6040 **Fax:** 972-2-9926050 **e-mail:** [info@tapazol.co.il](mailto:info@tapazol.co.il)

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS no.	Quantity (g/l)
Flutriafol	76674-21-0	125
Propylene Glycol	57-55-6	50-60
Other non-hazardous ingredients	N/A	Till 1 liter

### 3. HAZARDS IDENTIFICATION

**Human hazards:** The product may affect liver in prolonged exposure and may have reproductive and developmental effects.

Dangerous if swallowed and contact with skin. May cause an irritation in skin, eyes and respiratory track. May cause damage to eyes.

**Environmental hazards:** The product is slightly toxic to aquatic organisms And have moderate toxicity to bees.



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#### 4. FIRST AID MEASURES

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**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 medical attention if symptoms develop and persists.

**Note to physician:** No specific antidote, treat symptomatically.

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#### 5. FIRE-FIGHTING MEASURES

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**Flash point:**  $>100^{\circ}\text{C}$ .

**Flammable properties:** Not flammable.

**Extinguishing media:** Water spray, foam, dry chemical,  $\text{CO}_2$ .

**Protective equipment:** Normal protective gear 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.



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## 6. ACCIDENTAL RELEASE MEASURES

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**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 sand or sawdust or another absorbent material 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.

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## 7. HANDLING AND STORAGE

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**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.



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## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

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**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 gloves (EN 374/3).

**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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**Appearance:** Off-white liquid.

**Odor:** None.

**Boiling point:**  $>100^{\circ}\text{C}$ .

**Flash point:**  $>100^{\circ}\text{C}$ .

**Water solubility:** Forms a suspension.

**Specific gravity:** 1.1-1.02

**pH:** 7

**Viscosity:** 0.85-1 Pa\* Sec



## 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: 5000 mg/kg.

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

**Inhalation:** LC50 (4h) for rat: >5.161 mg/l

**Skin irritation:** Non irritant.

**Eye irritation:** Non irritant.

**Skin sensitization:** Non-sensitizing.

Could cause a damage in contact with the eyes

### Chronic toxicity:

Flutriafol does not have mutagenic or carcinogenic effects.

In long term or repeated exposure Flutriafol may cause liver damage.

Dangerous for use by women at fertility age (risk to the unborn child).

The non-active ingredient Propylene glycol may have mutagenic and reproductive effects.



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## 12. ECOLOGICAL INFORMATION

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For the AI Flutriafol:

**Fish:** LC50 for (96h) for rainbow trout: 61 mg/l, for mirror carp: 77 mg/l.

NOEC 6.2 mg/l.

**Daphnia:** LC50 (48h): 78 mg/l.

**Birds:** Acute oral LD50 for female mallard ducks: >5000 mg/kg. Dietary LC50 (5d) for mallard ducks: 3940 mg/kg, for japanese quail: 6350 mg/kg.

**Bees:** Moderate toxicity to bees. Acute oral LD50: >5 µg/bee.

**Behavior in Soil:** Flutriafol is persistent in soil. It is also mobile in soil and may leach to groundwater.

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## 13. DISPOSAL CONSIDERATIONS

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

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## 14. TRANSPORT INFORMATION

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Not classified as dangerous goods for transportation.

**UN no., Proper Shipping name, Class and Packaging group:** : N/A



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## 15. REGULATORY INFORMATION

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### **hazard statement:**

H360: May damage fertility or the unborn child

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

H412: Harmful 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

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## 16. OTHER INFORMATION

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**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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