

## Material Safety Data Sheet

### Tsafrir - צפריר

Version: 4  
Revised: 04.08.10

#### 1. IDENTIFICATION OF SUBSTANCE AND COMPANY

**Common name:** Tsafir

**Use:** Fungicide For the control of Leaf Spot and Rust in Peanuts and for the control of Target Spot of potatoes.

**Formulation Type:** SL

**Manufacturer:** Tapazol Chemical works Ltd.

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

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#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS no.	Quantity (g/l)
Cyproconazole (chemical family: Triazole)	9431-06-5	100
N-methyl Pyrollidone	872-50-4	550-650
Ethoxy alkylphenol ester (NP10)	26027-38-3	80-120

#### 3. HAZARDS IDENTIFICATION

Eye contact with the product may cause irreversible damage - this product is corrosive to the eyes. The product may cause skin irritation and sensitization and it is slightly toxic by ingestion and in contact with skin. The AI caused tumors in laboratory animals.

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#### 4. FIRST AID MEASURES

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In case of poisoning by any exposure route contact a doctor or Poisons Centre and have product label or msds with you.

**Eyes:** May cause severe damage to the eyes. If product gets in eyes wash it out immediately with water and get medical attention.

**Skin:** If skin contact occurs remove contaminated clothing and wash affected areas thoroughly with soap and water . If irritation persists, get medical attention.

**Ingestion:** If swallowed DO NOT induce vomiting. Give a glass of water and contact a doctor or Poisons Centre.

**Inhalation:** Move person to fresh air and keep at rest until recovered. Apply artificial respiration if necessary and get medical attention if necessary.

**Note to physician:** No specific antidote is available. If poisoning is suspected apply symptomatic therapy .

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#### 5. FIRE-FIGHTING MEASURES

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**Flash point:** 144<sup>0</sup>C (closed cup method).

**Flammable properties:** This product is Non-Flammable and non-explosive. The non-active ingredient NMP is combustible.

**Extinguishing media:** Fine-water spray, foam, dry chemical, CO<sub>2</sub>.

**Protective equipment:** When fighting a major fire wear an air-supplied respirator and protective equipment.

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

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## 6. ACCIDENTAL RELEASE MEASURES

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**Personal protection:** Avoid eye and skin contact. Wear personal protective equipment as prescribed in section 8 – "Exposure controls/Personal protection".

**Environmental Protection:** Avoid contamination of waterways.

**Procedure:** Keep all bystanders away . Reposition any leaking containers so as to minimize further leakage. Dam and absorb spill with an absorbent material (e.g. sand or soil). Shovel the absorbed spill into drums and dispose at an authorized disposal site. Decontaminate the spill area with detergent and water and rinse with the smallest volume of water practicable.

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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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No exposure standards have been set for the components of this product .

Exposure Potential - Swallowing is unlikely under normal conditions of usage.

Inhalation of spray mist is a possible route of exposure. This product is diluted with water prior to use as a spray. This diluted form is less toxic by all exposure routes .

**Engineering controls:** No special requirements - product is used outdoors .

**Eye/ Face protection:** Safety glasses with side shields.

**Skin:** Chemical-resistant gloves.

**Respiratory protection:** NIOSH/MSHA approved respirators with ABEK P3 filter.

**Hand/Body protection:** Long pants and long sleeved shirt, closed shoes with socks.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**Appearance:** Yellow to brown liquid.

**Odor:** Non-specific.

**Flash Point:** 144<sup>0</sup>C (closed cup method).

**Vapor pressure:** 2.6x10<sup>-2</sup> mPa (for AI Cyproconazole)

**Water solubility:** Soluble.

**Specific gravity:** 1.10-1.14 (20<sup>0</sup>C).

**Viscosity:** 120 mPa\*sec (20<sup>0</sup>C).

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## 10. STABILITY AND REACTIVITY

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**Chemical stability:** Stable under ordinary conditions of use and storage.

**Conditions to avoid:** Heat, flame, ignition sources, dusting and Incompatibilities.

**Incompatibilities:** Strong oxidizers.

**Hazardous decomposition products:** Smoke and irritating and toxic gases.

**Hazardous polymerization:** Will not occur.

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## 11. TOXICOLOGICAL INFORMATION

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### **Acute toxicity:**

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

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

**Inhalation:** LC50 for rat (4h): >5.65 mg/L air (for AI Cyproconazole).

**Skin irritation:** Mild irritant (rabbit).

**Eye irritation:** Corrosive to rabbit's eye, may cause irreversible damage.

**Skin sensitization:** Sensitizer (mouse).

**Chronic toxicity:** ( For AI Cyproconazole)

Cyproconazole technical has been extensively tested on laboratory mammals and in test-tube systems. No evidence of mutagenic, teratogenic or reproductive effects was obtained . There is limited evidence of carcinogenic potential.

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## 12. ECOLOGICAL INFORMATION

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### **For AI Cyproconazole:**

**Fish:** LC50 (96h) for carp: 18.9 mg/l, for trout 19 mg/l, for bluegil sunfish: 21 mg/l.

**Daphnia:** LC50 (48h): 26 mg/l.

**Green algae:** EC50 (96 h): 0.077 mg/l.

**Birds:** Acute oral LD50 for japanese quail: 150 mg/kg. Dietary LC50 (8d) for japanese quail: 816 mg/kg diet, for mallard ducks: 1197mg/kg diet.

**Bees:** LD50 (contact): >0.1 mg/bee, LD50 (oral): >1 mg/bee.

**Worms:** LC50 (14d): 335 mg/kg.

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### 13. DISPOSAL CONSIDERATIONS

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Triple or preferably pressure rinse empty, used containers. Add the rinsings to the spray tank. Break, crush or puncture and dispose at an authorized disposal site. Avoid entry of product into sewer system or water surfaces.

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### 14. TRANSPORT INFORMATION

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**UN no.:** Not classified.

**Class:** N/A.

**Packaging group:** N/A.

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### 15. REGULATORY INFORMATION

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**R phrases:**

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

R36/38: irritant to skin and eyes

R40: limited evidence of carcinogenic effect

R41: risk of serious damage to eyes

R43: may cause sensitization by skin contact

R50/53 very toxic to aquatic organisms, may cause long term adverse effect in the aquatic environment.

R63 Possible risk of harm to the unborn child

R65 harmful. May cause lung damage if swallowed

R66 repeated exposure may cause skin dryness or cracking

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## 16. OTHER INFORMATION

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