

## Material Safety Data Sheet

### לירון - Liron

Date of issue: 02.2008

Version: 3

Revised: 20.12.11 (Reason for change: update Inhalation LC50)

#### 1. IDENTIFICATION OF SUBSTANCE AND COMPANY

**Common name:** Liron

**Use:** Herbicide

**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) |
|------------------|----------|----------------|
| Linuron          | 330-55-2 | 500            |
| Propylene Glycol | 57-55-6  | 40-60          |

#### 3. HAZARDS IDENTIFICATION

The product is harmful by ingestion and in contact with skin.

Linuron and propylene glycol may have chronic effects (see section 11 for details).

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#### 4. FIRST AID MEASURES

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**Eyes:** Wash out with plenty of water with the eyelid held wide open for at least 15 minutes. Get medical attention.

**Skin:** Flush with large amounts of water. Remove grossly contaminated clothing, including shoes, and launder before reuse.

**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 get medical attention.

**Note to physician:** There is no specific antidote, treat symptomatically.

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#### 5. FIRE-FIGHTING MEASURES

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**Flash point:** Not flammable.

**Flammable properties:** Not flammable or explosive.

**Extinguishing media:** Dry chemical, water spray, foam, carbon dioxide.

**Protective equipment:** Self-contained breathing apparatus and regular protective clothing.

**Hazardous products of combustion may include:** Chloride compounds and nitrogen oxides.

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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 absorbent material such as sand 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.

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## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

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**Engineering controls:** Ventilation is required.

**Eye/ Face protection:** Safety goggles or face shield.

**Skin/Body protection:** Long working clothes, closed working shoes, chemical resistant gloves.

**Respiratory protection:** Respiratory protection is not required if good ventilation is maintained.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**Appearance:** Beige liquid.

**Odor:** Faint odor.

**Boiling point:** 100°C.

**Vapor pressure:** 0.051 mPa (For Al at 20°C).

**pH:** 7-8.5.

**Density:** 1.18 g/ml (20°C).

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## 10. STABILITY AND REACTIVITY

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

**Conditions to avoid:** Heat, flame, ignition sources, strong oxidizing agents.

**Hazardous polymerization:** Will not occur.

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## 11. TOXICOLOGICAL INFORMATION

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**Acute toxicity:**

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

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

**Inhalation:** >1.12 mg/l.

**Skin irritation:** Non-irritant (rabbits).

**Eye irritation:** Non-irritant (rabbits).

**Skin sensitization:** Non-sensitizer (mice).

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### **Chronic toxicity:**

The AI Linuron is classified as possible carcinogen (Group C by EPA and category 3 by EU) and it may also have reproductive and teratogenic effects (categories 2&3 by EU).

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

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## **12. ECOLOGICAL INFORMATION**

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For AI Linuron:

**Fish:** LC50 (96h) for rainbow trout: 3.15 mg/l, for sheepshead minnows: 0.89 mg/l.

**Daphnia:** LC50 (48h): 0.75mg/l

**Birds:** Acute oral LD50 for bobwhite quail: 940 mg/kg. Dietary LC50 (8d) for mallard ducklings: >5000 mg/kg.

**Bees:** Not toxic to bees.

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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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**UN no.:** 3082 (Environmentally hazardous substance, liquid).

**Class:** 9

**Packaging group:** III



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## 15. REGULATORY INFORMATION

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### R phrases:

R40: Limited evidence of a carcinogenic effect.

R48/22: Harmful: danger of serious damage to health by prolonged exposure if swallowed.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R61: May cause harm to the unborn child.

R62: Possible risk of impaired fertility.

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## 16. OTHER INFORMATION

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