

## Material Safety Data Sheet

### Star - סטאר

Revised: 14.05.12 (format update, flammability omitting)

#### 1. IDENTIFICATION OF SUBSTANCE AND COMPANY

**Common name:** Star

**Use:** Herbicide

**Formulation Type:** EC

**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)
Oxadiazon	19666-30-9	250
Inert ingredients	N/A	Till 1 liter

#### 3. HAZARDS IDENTIFICATION

**Human hazards:** The product is harmful in contact with skin and may cause slight irritation to eyes and skin. This product is considered to be a probable or suspected human carcinogen.

**Environmental hazards:** The product is toxic to aquatic organisms.



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#### 4. FIRST AID MEASURES

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**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.

**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 prompt medical attention.

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

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#### 5. FIRE-FIGHTING MEASURES

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**Flash point:** 65°C (ASTM D-93/A)

**Flammable properties:** When heated above the flash point, this product releases vapor which, when mixed with air, can burn or be explosive.

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

**Protective equipment:** Full protective clothing and an approved self-contained breathing apparatus.

**Hazardous products of combustion may include:** Smoke, toxic and irritating gases such as oxides of carbon, oxides of nitrogen, hydrochloride.

**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 as sand or soil 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:** If airborne mists or vapors are likely to be generated, use local exhaust ventilation controls.

**Eye/ Face protection:** Chemical goggles with side shields.

**Skin/Body protection:** Long working clothes, closed shoes with socks and chemical resistant gloves (e.g nitrilre).

**Respiratory protection:** Respirator with ABEK filter is needed if airborne concentration is supposed to be high.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**Appearance:** Dark tan liquid.

**Odor:** Aromatic.

**Flash point:** 65<sup>0</sup>C.

**Water solubility:** Disperses.

**Specific gravity:** 1.0 g/ml (25<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, strong acids and bases.

**Hazardous polymerization:** Will not occur.

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## 11. TOXICOLOGICAL INFORMATION

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### Acute toxicity:

**Oral:** LD50 for rat: >5000 mg/kg.

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

**Inhalation:** LC50 for rat (4h): >2.77 mg/l (for the AI Oxadiazon).

**Skin irritation:** Slightly irritant to skin (rabbits).

**Eye irritation:** Slightly irritant to eyes (rabbits).

**Skin sensitization:** Non-sensitizing (guinea pig).

### Chronic toxicity:

This product is considered to be probable or suspected human carcinogen.

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## 12. ECOLOGICAL INFORMATION

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### For AI Oxadiazon:

**Fish:** LC50 (96 h) for bluegill sunfish and rainbow trout 1.2 mg/l.

**Daphnia:** EC50 (48h): >2.4 mg/l.

**Algae:** EC50 6-3000 µg/l.

**Birds:** Acute oral LD50 for mallard ducks >1000, bobwhite quail >2150 mg/Kg.

**Bees:** LD50 >400 µg/bee, with repellent effect. Mortality is negligible by direct contact at doses up to 27 kg a.i./ha.

**Environmental Fate:** Animals: In mammals, following oral administration, 93% is eliminated within 72 hours, predominantly in the urine. Plants:

Oxadiazon penetrates plants primarily via shoots and leaves and is rapidly metabolized. Metabolites do not accumulate in the plant. Soil/Environment:

Strongly absorbed by soil colloids and humus, with very little migration or leaching. Negligible loss due to volatilization. DT50 in soil is c. 3-6 months. KOC 1400 (silt loam) to 3200 (sand) at 25°C.

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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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This product is not classified as dangerous goods for transportation.

**Proper Shipping Name, UN number, class, packaging group: N/A**

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### 15. REGULATORY INFORMATION

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**R phrases:**

R36/38: Irritating to eyes and skin

R40: Limited evidence of a carcinogenic effect

R51/53: Toxic to aquatic organisms, May cause long-term adverse effects in the aquatic environment

**S phrases:**

S1/2: Keep locked up and out of the reach of children

S3/7: Keep container tightly closed in a cool place

S13: Keep away from food, drink and animal foodstuffs

S24/25: Avoid contact with skin and eyes

S36/37: Wear suitable protective clothing and gloves

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### 16. OTHER INFORMATION

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