

## Material Safety Data Sheet

### פאסטר - Faster

Revised: 15.05.12

Last revision date: 04.2011

#### 1. IDENTIFICATION OF SUBSTANCE AND COMPANY

**Common name:** Faster

**Use:** Herbicide

**Formulation Type:** SL

**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)
Glufosinate Ammonium	77182-82-2	200
Propylene Glycol monomethyl ether	107-98-2	90-110
Other non-hazardous materials	N/A	Till 1 liter

#### 3. HAZARDS IDENTIFICATION

The product is harmful by ingestion and in contact with skin and may cause eye irritation and skin irritation and sensitization.

The product may have reproductive and teratogenic effects.

---

#### 4. FIRST AID MEASURES

---

If poisoning occurs, immediately contact a doctor or Poisons Information Centre and follow the advice given. Show this Material Safety Data Sheet to the doctor.

**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 prompt medical attention.

**Note to physician:** Glufosinate-ammonium is a glutamine synthetase inhibitor and can interfere with neurotransmitter function.

##### Symptoms

Local – irritation of eyes, skin, respiratory tract.

Systemic - Shivering, cramps, gastrointestinal complaints, hyperthermia, dyspnoea, bradycardia/tachycardia, convulsions, respiratory depression, amnesia, drowsiness and/or loss of consciousness. These symptoms may be delayed from a few hours to up to 48 hours after exposure. Therefore, regardless of the amount ingested, the patient must be admitted to hospital for at least 36 hours and treated immediately as outlined below.

##### Treatment

Emergency measures: Symptomatic treatment and administration of antidotes, decontamination.

If ingested, endotracheal intubation and gastric lavage should be performed as soon as possible, followed by administration of charcoal and sodium sulphate solution.

Anticonvulsant therapy: Phenobarbital-sodium, 1 mg/kg intramuscularly or subcutaneously until maximum 5 mg/kg daily; when necessary, 10 mg diazepam slowly intravenously. Repeat as necessary until fully sedated.

Elimination by dialysis (forced alkaline diuresis) and/or haemo-perfusion. It is essential that this be done soon after ingestion to be effective.

ECG (EKG) - control (electrocardiogram)

EEG – control (electroencephalogram)

Apply artificial respiration as necessary. If necessary give oxygen.

Monitor respiratory, cardiac, central nervous system, electrolyte balance (especially for hypokalemia) and signs of increased intracranial pressure.

If a large amount has been ingested, keep under medical supervision for at least 48 hours.

Contraindication: Atropine, as glufosinate-ammonium does not inhibit cholinesterase.

Recovery is normally spontaneous, usually within 48 hours.

---

## 5. FIRE-FIGHTING MEASURES

---

**Flash point:** >100<sup>0</sup>C.

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

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

**Protective equipment:** Full protective gear and self-contained breathing apparatus.

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

**More information:** Do not allow run-off from the fire enter drains or water courses.

---

## 6. ACCIDENTAL RELEASE MEASURES

---

**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 sawdust 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.

---

## 7. HANDLING AND STORAGE

---

**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. Do not store in steel or aluminum containers. The product should be stored between 5<sup>0</sup>C and 30<sup>0</sup>C.

**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.

---

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

---

**Exposure controls:** for Propylene glycol monomethyl ether: 100 ppm (8h, TWA), 150 ppm (15 MIN/STEL).

**Engineering controls:** Use only in well-ventilated areas. If necessary, use local exhaust ventilation to keep airborne concentration low.

Provide eyewash and safety shower facilities in the workplace

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

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

**Respiratory protection:** If airborne concentration may be high, a respirator with ABEK filter is needed.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

---

**Appearance:** Blue to bluish liquid.

**Odor:** Slightly pungent.

**pH:** 4.6-6.6 (1% aqueous solution).

**Boiling point:** 96<sup>0</sup>C.

**Flash point:** >100<sup>0</sup>C.

**Water solubility:** Soluble.

**Specific gravity:** 1.11 at 20<sup>0</sup>C.

---

## 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: >2500 mg/kg.

Symptoms of poisoning may include: shivering, cramps, stomach complaints, overheating, breathing difficulty, heart problems, convulsions, respiratory depression, loss of memory, drowsiness and/or loss of consciousness. These symptoms may be delayed from a few hours up to 48 hours after ingestion.

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

**Inhalation:** LC50 (4h) for male rat: 1.26 mg/l, for female eat: 2.6 mg/l (as dust). LC50 (4h) for rat as aerosol: >0.62 mg/l. (For AI Glufosinate Ammonium).

**Skin irritation:** Moderate irritant (rabbits).

**Eye irritation:** Mild irritant (rabbits).

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

### **Chronic toxicity:**

In animal studies glufosinate-ammonium showed no carcinogenic, mutagenic or neurotoxic effects, but it may have reproductive or teratogenic effects.

---

## 12. ECOLOGICAL INFORMATION

---

### **For AI Glufosinate Ammonium:**

**Fish:** LC50 (96h) for rainbow trout: 710 mg/l, for carp, bluegill sunfish and golden orfe: >1000 mg/l.

**Daphnia:** LC50 (48h): 560-1000 mg/l.

Algae: LD50: 37-1000 mg/l.

**Birds:** Dietary LC50 (8d) fo japanese quail: >5000 mg/kg.

**Bees:** Not hazardous, LD50: >100 µg/bee.

---

### 13. DISPOSAL CONSIDERATIONS

---

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

---

### 14. TRANSPORT INFORMATION

---

This product is not classified as dangerous goods for transportation.  
**Proper Shipping name, UN no., Class, Packaging group: N/A.**

---

### 15. REGULATORY INFORMATION

---

**R phrases:**

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

R36/38: Irritating to eyes and skin

R43: May cause sensitization by skin contact

---

### 16. OTHER INFORMATION

---

**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.

---