

# SAFETY DATA SHEET

## GALIGAN 24 EC

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product name** : GALIGAN 24 EC  
**Chemical name of active ingredient(s)** : 2-chloro- $\alpha,\alpha,\alpha$ -trifluoro-p-tolyl-3-ethoxy-4-nitrophenyl ether  
**Manufacturer** : Agan Chemical Manufacturers Ltd.  
 Northern Industrial Zone,  
 P.O.Box 262, Ashdod, Israel.  
**Emergency telephone number** : +972-8-8515211

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance/preparation** : Preparation

**Information on hazardous ingredients** \*

Common name	CAS No.	%	EC Number	Symbol	R-Phrases
Oxyfluorfen	42874-03-3	23 - 25	255-983-0	Not classified	-
Xylene	1330-20-7	58 - 64	215-535-7	Xn	R10-20/21-38

\* *Occupational Exposure Limit(s), if available, are listed in section 8*

### 3. HAZARDS IDENTIFICATION

**Most important hazards** : Flammable. Harmful by inhalation. Irritating to eyes and skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 4. FIRST-AID MEASURES

**Effects and symptoms**

**Inhalation** : Vapours - headache, dizziness and nausea.  
**Ingestion** : nausea, headache, cramps, vomiting.  
**Skin contact** : Irritating to skin.  
**Eye contact** : Irritating to eyes.

**First-aid measures**

: Remove victim from area of exposure. Wash off remaining material with plenty of water.  
**Inhalation** : Remove victim to fresh air. If breathing is difficult: artificial respiration. Get medical attention.  
**Ingestion** : Wash out mouth with plenty of water. Get medical attention. Never give anything by mouth to an unconscious person.  
**Skin contact** : Remove contaminated clothing. Wash away remainder with water and soap.  
**Eye contact** : Wash out with plenty of water with the eyelid held wide open for at least 15 minutes. Get medical attention.

**Notes to a physician** : There is no specific antidote. Treat symptomatically and give supportive therapy.

**Protection of first-aiders** : Use appropriate protection (see section 8).

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#### 5. FIRE-FIGHTING MEASURES

**Extinguishing media**

- Suitable** : Dry chemical, water spray, foam, carbon dioxide.
- Unusual fire/explosion hazards** : Flashback may occur along vapour trail.
- Hazardous thermal (de)composition products** : Chloride compounds, Fluoride compounds and nitrogen oxides.
- Protection of fire-fighters** : Self-contained breathing apparatus and total protection required in enclosed areas.

#### 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Wear suitable protective clothing.
- Environmental precautions** : Do not discharge into drains or the environment.
- Methods for cleaning up** : Keep away from: open flame, sparks and heat. Absorb remainder in sand or other inert material. Dispose of in an authorized waste collecting point.

#### 7. HANDLING AND STORAGE

- Handling** : Avoid contact with skin and eyes. Ventilation required. Keep away from: sparks, open flame and direct sunlight.
- Storage** : Keep only in the original container. Keep in a cool, dry, well ventilated place away from direct sunlight.
- Packaging materials**
- Suitable** : Multi-layer high density polyethylene extrusion blow containers. Resin-lined metal drums.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering measures** : Ventilation required.
- Hygiene measures** : When handling do not eat, drink or smoke. Wash hands thoroughly after handling. Wash clothing separately before re-use.
- Occupational Exposure Limits**
- Common name** : **Oxyfluorfen**
- TLV (USA)** : 0.2 mg/m<sup>3</sup>
- STEL (USA)** : 1.6 mg/m<sup>3</sup>
- Common name** : **Xylene**
- TLV (USA)** : 100 ppm
- "MAK" (Germany)** : 100 ppm
- OEL (United Kingdom)** : 100 ppm
- Personal protective equipment**
- Respiratory system** : Respiratory protection is not required if good ventilation is maintained.
- Skin and body** : Wear suitable protective clothing. Chemical resistant boots.
- Hands** : Chemical resistant gloves.
- Eyes** : Safety goggles or face shield.

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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	: Liquid
<b>Colour</b>	: Amber
<b>Odour</b>	: Aromatic (solvent)
<b>Boiling point</b>	: 137 - 143°C (Xylene)
<b>Density</b>	: 0.992 ± 0.01 @ 20°C
<b>Vapour pressure</b>	: < 1 x 10 <sup>-7</sup> mm Hg @ 25°C (Oxyfluorfen)
<b>Solubility in water</b>	: 0.04 ppm @ 25°C (Oxyfluorfen)
<b>Octanol/water partition coefficient</b>	: log = 4.7 @ 25°C (Oxyfluorfen)
<b>pH</b>	: 6 - 8 CIPAC, MT 75
<b>Flash point</b>	: 31°C
<b>Flammability</b>	: Flammable
<b>Autoignition temperature</b>	: 450°C (Xylene)
<b>Explosion properties</b>	: Xylene (vapours) - May form explosive mixture with air.
<b>Lower explosion limit</b>	: 1 volume %
<b>Upper explosion limit</b>	: 7 volume %
<b>Oxidation properties</b>	: Not oxidizing

#### 10. STABILITY AND REACTIVITY

<b>Stability</b>	: Not subject to polymerization.
<b>Materials to avoid</b>	: Oxidizing agents, acids and alkali.
<b>Hazardous reactions</b>	: None
<b>Hazardous decomposition products</b>	: Chloride compounds, Fluoride compounds and nitrogen oxides.

#### 11. TOXICOLOGICAL INFORMATION

##### Preparation

<b>Acute toxicity - Oral</b>	: LD <sub>50</sub> (rat) = 4,599 mg/kg
<b>Acute toxicity - Dermal</b>	: LD <sub>50</sub> (rabbit) > 4,000 mg/kg
<b>Acute toxicity - Inhalation</b>	: LC <sub>50</sub> ~ 5 mg/L (4 hours)
<b>Skin irritation</b>	: Moderately irritating (rabbit).
<b>Eye irritation</b>	: Severely irritating (rabbit).
<b>Sensitization</b>	: Non sensitizer (guinea-pig).
<b>Common name</b>	: <b>Oxyfluorfen</b>
<b>Chronic toxicity</b>	: NOEL: rat = 40 mg/kg/day; dog = 100 mg/kg/day; mice = 2 mg/kg/day.
<b>Carcinogenicity</b>	: EPA : Group C EU : Not classified IARC : Not classified
<b>Mutagenicity</b>	: Not mutagenic
<b>Reproduction toxicity</b>	: NOEL (rat): 100 ppm (Maternal) ; 400 ppm (Fetal).
<b>Other information</b>	: Teratogenicity - NOEL (rabbit): 30 mg/kg/day.



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### 13. DISPOSAL CONSIDERATIONS

**Methods of disposal** : Dispose of in a pesticide approved landfill, or in a chemical incinerator equipped with scrubbers, In accordance with national and regional regulations.

### 14. TRANSPORT INFORMATION

#### International transport regulations

UN number : 1993

#### Land - Road/Railway

Proper shipping name : Flammable liquid, N.O.S. (Xylenes)

ADR/RID Class : 3, F1, PG III

Hazard Identification : 30

Number

#### Inland waterways

Proper shipping name : Flammable liquid, N.O.S. (Xylenes)

ADNR Class : 3, F1, PG III

#### Sea

Proper shipping name : Flammable liquid, N.O.S. (Xylenes)

IMDG Class : 3, Label 3

Packing group : III

Emergency Schedules : F-E, S-E

(EmS)

#### Air

Proper shipping name : Flammable liquid, N.O.S. (Xylenes)

UN/ID Number : 1993

IATA-DGR Class : 3, PG III

#### National transport regulations

No additional national transport regulations are known to the supplier

### 15. REGULATORY INFORMATION

**Classification** : This product is provisionally labelled by the supplier in accordance with the suppliers understanding of the EU regulations (Directives 67/548/EEC, 1999/45/EC).

**Hazard symbol(s)** : Xn, N



HARMFUL



DANGEROUS FOR THE ENVIRONMENT

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**Risk phrases** : R10: Flammable.  
R20: Harmful by inhalation.  
R36/38: Irritating to eyes and skin.  
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety phrases** : S02: Keep out of the reach of children.  
S13: Keep away from food, drink and animal feedingstuffs.  
S20/21: When using do not eat, drink or smoke.  
S23D: Do not breathe spray.  
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S28: After contact with skin, wash immediately with plenty of water.  
S35: This material and its container must be disposed of in a safe way.  
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.  
S57: Use appropriate containment to avoid environmental contamination.  
S61: Avoid release to the environment. Refer to special instructions/Safety data sheets.

#### 16. OTHER INFORMATION

The information contained in the Safety Data sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification. The information relates only to the product specified and may not be suitable for combinations with other materials or in processes other than those specifically described herein.

#### HISTORY

**Date of printing** : 29/03/2007  
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**Date of issue** : 29/03/2007  
**Version** : 001

The version-number is made up of three parts; part 1 is a general information code, part 2 a country-specific code and part 3 a language-specific code

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