



MATERIAL SAFETY DATA SHEET

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Revised edition no : 3

Date : 5 / 7 / 2009

Supersedes : 9 / 9 / 2008

GALIGAN 240 EC

H-0154

1. Identification of the substance/mixture and of the company/undertaking

Trade name : GALIGAN 240 EC
Chemical description : Oxyflurofen: 2-chloro-3-alpha-trifluoro-p-tolyl-3-ethoxy-4 -nitrophenyl ether
Company identification : Agan Chemical Manufacturers Ltd.
P.O.B. 262
ASHDOD Israel
MSDS@ma-industries.com
Emergency phone nr : +972-8-8515211

2. Hazards identification

Physical/Chemical Hazards : Flammable.
Human health hazards : Harmful by inhalation. Irritating to eyes and skin.
Environmental hazard : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. Composition/information on ingredients

Substance name	Value(s)	CAS No	EC No	Index No	REACH Reg.	Classification
Oxyflurofen	: 23 - 25 %	42874-03-3	255-983-0	-----	-----	Xi; R36 N; R50-53
Calcium dodecylbenzene sulphonate	: 1 - 2 %	26264-06-2	247-557-8	-----	-----	Xi; R38-41
N-methyl-2-pyrrolidone	: 2 - 3 %	872-50-4	212-828-1	606-021-00-7	-----	Repr. Cat. 2; R61 Xi; R36/37/38
Xylene	: 58 - 64 %	1330-20-7	215-535-7	601-022-00-9	-----	R10 Xn; R20/21 Xi; R38

4. First aid measures

First aid : Remove victim from area of exposure. Wash away remainder with plenty of water.
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 water with the eyelid held wide open for at least 15 minutes. Get medical attention.
Inhalation : Remove victim to fresh air. If breathing is difficult: artificial respiration. Get medical attention.
Note to physician : There is no specific antidote. Treat symptomatically and give supportive therapy.
Protection of first-aiders : Use appropriate protection (see section 8).

5. Fire-fighting measures

Extinguishing media : Dry chemical, water spray, foam, carbon dioxide.
Special exposure hazards : Flashback may occur along vapour trail.
Protection of fire-fighters : Self-contained breathing apparatus and total protection required in enclosed areas.

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5. Fire-fighting measures (continued)

Hazardous decomposition products : Chloride compounds , fluorine compounds and nitrogen oxides .

6. Accidental release measures

Personal precautions : Wear suitable protective clothing.
Environmental precautions : Do not discharge into the environment.
After spillage and/or leakage : Keep away from : open flame , sparks and heat . Absorb remainder in sand or other inert material. Dispose of this material and its container at hazardous or special waste collection points.

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, well-ventilated place away from direct sunlight .

8. Exposure controls/personal protection

Industrial hygiene : Ventilation required.
When using do not eat, drink or smoke. Wash hands thoroughly after handling.
Wash clothing separately before re-use.

Personal protection : Wash clothing separately before re-use.
- Respiratory protection : Respiratory protection is not required if good ventilation is maintained
- Skin protection : Wear suitable protective clothing Chemicals resistant boots
- Hand protection : Chemical resistant gloves
- Eye protection : Safety goggles or face shield

Occupational Exposure Limits

TLV-TWA [ppm]	N-Methyl-2-pyrrolidone (USA) :25
	Xylene : (USA) 100
TLV-TWA [mg/m ³]	Oxyfluorfen : (USA) 0.2
TLV-STEL [mg/m ³]	Oxyfluorfen (USA) 1.6
OEL (UK)-LTEL [ppm]	Xylene : 100
MAK - Germany [mg/m ³]	N-Methyl-2-pyrrolidone : (Germany) 80
MAK - Germany [ppm]	Xylene : (Germany) 100

9. Physical and chemical properties

Physical state : Liquid
Colour : Amber
Odour : Aromatic solvent.
pH value : 6-8
CIPAC , MT 75

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9. Physical and chemical properties (continued)

Density	: 0.992 ± 0.01 (20°C)
Boiling point [°C]	: 137-143°C (Xylene)
Vapour pressure mm/Hg	: < 1(10)-7 (25)°C (Oxyfluorfen)
Solubility in water	: Miscible
Flash point [°C]	: 31
Auto-ignition temperature [°C]	: 450 (Xylene)
Log P octanol	: 4.7(25°C) (Oxyfluorfen)
Flammability	: Flammable
Explosion properties	: Xylene - Vapors may form explosive mixtures with air.
Explosion limits - lower [%]	: 1
Explosion limits - upper [%]	: 7
Oxidizing properties	: Not oxidizing

10. Stability and reactivity

Stability	: Not subject to polymerization .
Hazardous decomposition products	: Chloride compounds , and fluorides nitrogen oxides .
Hazardous reactions	: None
Materials to avoid	: Oxidizing agents , acids and nitrogen oxides .

11. Toxicological information

On product	
Oral, Rat LD50 [mg/kg]	: 4599
Dermal, Rabbit LD50 [mg/kg]	: > 4000
Inhalation, Rat LC50 [mg/l/4h]	: 5.0
Skin corrosion/ irritation	: Moderately irritating to the skin.
Serious eye damage/ irritation	: Severely irritating
Respiratory or skin sensitization	: Non-sensitizer
Carcinogenicity	Oxyfluorfen: : EU : Not classified
Germ cell mutagenicity	: Oxyfluorfen: Not mutagenic
Reproductive toxicity	: Not teratogenic in animal experiments
Teratogenicity	: Not teratogenic in animal experiments

12. Ecological information

On product	
96 H-LC50 - Rainbow trout [mg/l]	: 25
48 H-EC50 - Daphnia magna [mg/l]	: 2.8
72H- EC50 - Algae [mg/l]	: 0.1

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12. Ecological information (continued)

LD50 Birds [mg/kg]	: > 2000(bobwhite quail)
Bees LD50 [µg/Bee]	: Not toxic to bees
Persistence and degradability	Oxyfluorfen: Soil : The product is persistent to some extent. Water : : Adsorbs strongly to sediment
Mobility	Oxyfluorfen: Soil : : Not mobile Adsorbed on soils with high organic content. No risk of underground contamination.



13. Disposal considerations

Disposal	: Dispose in a safe manner in accordance with local/national regulations. Dispose of in a pesticide approved landfill, or in a chemical incinerator equipped with scrubbers.
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14. Transport information

- UN No.	: 1993
- Proper shipping name	: FLAMMABLE LIQUID, N.O.S. (Xylene)
- Packing group	: III
- Class	: 3
- H.I. nr :	: 30
- IMDG-Marine pollution	: YES

15. Regulatory information

EU Classification	: According to Commission Directive 67/548/EEC, 1999/45/EC and its amendments
Symbol(s)	 
R Phrase(s)	: Xn: Harmful. N: Dangerous for the environment. : R10 - Flammable. R20 - Harmful by inhalation. R36/38 - Irritating to eyes and skin. R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S Phrase(s)	: 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. S29- Do not empty into drains. S46- If swallowed, seek medical advice immediately and show this container or label. S60- This material and its container must be disposed of as hazardous waste. S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.

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GALIGAN 240 EC**H-0154****15. Regulatory information (continued)****16. Other information****List of full text of R-phrases in section 3.**

: R10 - Flammable.
R20/21 - Harmful by inhalation and in contact with skin.
R36 - Irritating to eyes.
R36/37/38 - Irritating to eyes, respiratory system and skin.
R38 - Irritating to skin.
R41 - Risk of serious damage to eyes.
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.

Further information

: None.

Print date

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