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## **COTORAN 4L**

H-153-11113

1. Identification of the substance/mixture and of the company/undertaking						
Trade name Chemical description Use Company identification Emergency phone nr	<ul> <li>COTORAN 4L</li> <li>Fluometuron: 1,1-dimethyl-3-a,a,a-yrifluoro-m-tolyl)urea.</li> <li>Herbicide</li> <li>Agan Chemical Manufacturers Ltd. P.O.B. 262 ASHDOD Israel MSDS@ma-industries.com</li> <li>+972-8-8515211</li> </ul>					
2. Hazards identification						
Human health hazards Environmental hazard			ganisms, r	may cause lo	ong-term adv	verse effects in the
3. Composition/information on ingre	edients					
Substance name	Value(s)	CAS No	EC No	Index No	REACH Reg.	Classification
Fluometuron	41.7 %	2164-17-2	218-500-4			N; R50-53
Ethylene Glycol	8 -9%	107-21-1	203-473-3	603-027-00-1		Xn; R22
4. First aid measures						
First aid Ingestion Skin contact	<ul> <li>Wash out mouth with plenty of water. Never give anything by mouth to an unconscious person. get medical attention .</li> <li>Remove contaminated clothing and shoes. Wash away remainder with plenty of</li> </ul>					
Eye contact	water. : Wash out	with plenty o	f water with		-	pen for at least 15
Inhalation	: Remove v		air. If brea		cult: artificia	al respiration . Get
Note to physician	: No specifi	dvice/attentio ic antidote kn iptomatically a	own.		erapy.	
5. Fire-fighting measures						
Extinguishing media		fire : dry cher fire : foam , w			dioxide	
Protection of fire-fighters	: Use self-c	contained brea	athing app	aratus and c	hemically p	rotective clothing.
Hazardous decomposition products	: carbon ox	ides (CO, CC	02) , nitroge	en oxides (N	O, NO2) ,	fluorine compounds .
6. Accidental release measures						
6. Accidental release measures Personal precautions	: Wear suit	able protectiv	e clothing,	gloves and	eye/face pro	otection.



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6. Accidental release measures (continued)						
Environmental precautions After spillage and/or leakage	<ul> <li>Do not empty into drains Do not discharge into the environment.</li> <li>Collect spilled material. Absorb in sand or other inert material. Dispose of this material and its container at hazardous or special waste collection point.</li> </ul>					
7. Handling and storage						
Handling	: Ventilation required. Wash hands thoroughly after handling.					
Storage	: Keep in original containers. Keep away from food, drink and animal feeding stuffs Store in dry, well-ventilated area.					
Precautions in handling and storage	: Handle in accordance with good industrial hygiene and safety procedures.					
8. Exposure controls/personal prote	ction					
Industrial hygiene	: Wash hands thoroughly after handling. When using do not eat, drink or smoke. Wash clothing before re-using.					
Substance name	Value(s) CAS No EC No Index No REACH Reg. Classification					
- Respiratory protection	107-21-1 203-473-3 603-027-00-1 Xn; R22 : No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.					
- Skin protection	: Wear suitable protective clothing Wear safety boots.					
- Hand protection	: Wear suitable gloves.					
- Eye protection	: Chemical goggles or safety glasses.					
Occupational Exposure Limits						
TLV	: Fluometuron: No data available.					
9. Physical and chemical properties						
Physical state	: Liquid					
Colour	: Whitish					
Odour	: Faint odor					
pH value	: 7-8.5					
Boiling point [°C]	: 100°C (water)					
Density [g/ml]	: 1.16 ± 0.02 (20°C)					
Solubility in water	: Miscible					
Flash point [°C]	: 115 (Ethylene Glycol)					
Auto-ignition temperature [°C]	:400(Ethylene Glycol)					
Log P octanol / water	: 2.23 (Fluometuron)					
Flammability	: Non-flammable.					
Explosion properties	: Not explosive					

#### 10. Stability and reactivity

**Oxidizing properties** 

Hazardous decomposition products : Nitrogen oxide , fluorine compounds

: Not oxidizing



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0. Stability and reactivity (continued)		
Materials to avoid	: oxidizing agents , acids , alkali .	
Conditions to avoid	: All heat sources, including direct sunlight	
1. Toxicological information		
On product		
Oral, Rat LD50 [mg/kg]	: 1,841	
Dermal, Rabbit LD50 [mg/kg]	: > 2020	
Inhalation, Rat LC50 [mg/l/4h]	: >2.38 (Maximum concentration attainable.)	
Skin corrosion/ irritation	: Not irritant	
Serious eye damage/ irritation	: Mildly irritating to the eyes.	
Respiratory or skin sensitization	: The product is not a skin sensitizer	
Carcinogenicity	: Fluometuron : Not classified	
Germ cell mutagenicity	: Fluometuron : Not mutagenic	
Reproductive toxicity	: Fluometuron : Not considered to be toxic for the reproductive system.	
2. Ecological information		
96 H-LC50 - Rainbow trout [mg/l]	: 30	
EC50 - Daphnia [mg/l]	: 54	
72H- EC50 - Algae [mg/l]	: 0.16	
LD50 Birds [mg/kg]	: Bobwhite quail >2,150	
Bees LD50 [µg/Bee]	: Not toxic to bees	
Persistence and degradability	Soil :	
	: Moderately persistent in soil	
	Half-life time (t1/2) : 30 days	
Mobility	Soil :	
	: Moderately mobile	
3. Disposal considerations		
Disposal	: Dispose of in a pesticide approved landfill, or in a chemical incinerator equipped with scrubbers. Dispose in a safe manner in accordance with local/national regulations.	
4. Transport information		
- UN No.	: 3082	
- Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluometuron)	
- Packing group	: III	
- Class	: 9	



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- H.I. nr : - IMDG-Marine pollution	: 90 : YES
Other	: Not regulated by DOT.
. Regulatory information	
Symbol(s)	: Xn: Harmful. N: Dangerous for the environment.
R Phrase(s)	<ul> <li>R22 - Harmful if swallowed. R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</li> </ul>
S Phrase(s)	<ul> <li>S02 - Keep out of the reach of children.</li> <li>S13 - Keep away from food, drink and animal feedingstuffs.</li> <li>S20/21 - When using, do not eat, drink or smoke.</li> <li>S24/25 - Avoid contact with skin and eyes.</li> <li>S36/37 - Wear suitable protective clothing and gloves.</li> <li>S60 - This material and its container must be disposed of as hazardous waste.</li> <li>S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.</li> </ul>

List of full text of R-phrases in section 3.	: R22- Harmful if swallowed.
Print date	: 3 / 1 / 2011
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only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

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