



# MATERIAL SAFETY DATA SHEET

Page : 1

Revised edition no : 1

Date : 20 / 5 / 2008

Supersedes : 0 / 0 / 0

## SULCOTRIONE/ATRAZINE 125/300 SC

H-0155

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

Trade name : SULCOTRIONE/ATRAZINE 125/300 SC  
Chemical description : Sulcotrione: 2-(2-chloro-4-mesylbenzoyl)cyclohexane-1,3-dione  
Atrazine: 6-chloro-N2-ethyl-N4-isopropyl-1,3,5-triazine-2,4-diamine  
Use : Herbicide.  
Company identification : Agan Chemical Manufacturers Ltd.  
P.O.B. 262  
ASHDOD Israel  
Emergency phone nr : +972-8-8515211  
Email : MSDS@ma-industries.com

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Substance name	Value(s)	CAS No	EC No	Index No	Classification
Sulcotrione	11 - 12 %	99105-77-8	----	----	
Atrazine	25 - 30 %	1912-24-9	217-617-8	613-068-00-7	Xn; R48/22 R43 N; R50-53

### 3. HAZARDS IDENTIFICATION

Human health hazards : May cause sensitization by skin contact.  
Harmful : danger of serious damage to health by prolonged exposure if swallowed.  
Environmental hazard : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 4. FIRST AID MEASURES

First aid  
Inhalation : Remove victim to fresh air. If breathing is difficult: artificial respiration .  
Get medical attention.  
Ingestion : Wash out mouth with plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.  
Skin contact : Remove contaminated clothing and shoes. Wash away remainder with plenty of water.  
Eye contact : Wash out with plenty of water with the eyelid held wide open for at least 15 minutes. Get medical attention.  
Note to physician : No specific antidote known. Treat symptomatically and give supportive therapy.  
Protection of first-aiders : Use appropriate protection (see section 8).

### 5. FIRE-FIGHTING MEASURES

Extinguishing media : For small fire : dry chemical powder , water spray carbon dioxide  
For large fire : foam , water fog , water spray.  
Hazardous decomposition products : Chloride compounds , nitrogen oxides (NO, NO2...) , carbon oxides (CO, CO2) , sulfur oxides (SO2, SO3...)  
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, gloves and eye/face protection.  
Environmental precautions : Do not empty into drains. Do not discharge into the environment.  
After spillage and/or leakage : Collect spills and put it into appropriated container. Dispose of this material and its container at hazardous or special waste collection point.



# MATERIAL SAFETY DATA SHEET

Page : 2

Revised edition no : 1

Date : 20 / 5 / 2008

Supersedes : 0 / 0 / 0

## SULCOTRIONE/ATRAZINE 125/300 SC

H-0155

### 6. ACCIDENTAL RELEASE MEASURES (continued)

Keep away from combustible material.

### 7. HANDLING AND STORAGE

Handling	: Ventilation required.
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.
Storage - away from	: Direct sunlight .

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures	: Ventilation required.
Industrial hygiene	: Wash hands thoroughly after handling. When using do not eat, drink or smoke. Wash clothing before re-using.
Personal protection	
- Respiratory protection	: Respiratory protection is not required if good ventilation is maintained
- 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	: Sulcotrione: No data available.
TLV [mg/m <sup>3</sup> ]	: Atrazine : 5
OEL (UK)-STEL [mg/m <sup>3</sup> ]	: Atrazine : 10
MAK - Germany [mg/m <sup>3</sup> ]	: Atrazine : 2

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Suspension
Colour	: White
Odour	: characteristic
pH value	: 3-5
Density [g/ml]	: 1.100 ± 0.015 @ 25°C
Vapour pressure [mPa]	: 5e-3 @ 25°C (Sulcotrione) 0.04 @ 25°C (Atrazine)
Solubility in water	: Miscible
Flash point [°C]	: >100
Log P octanol / water	: <0 (Sulcotrione) 2.44 (Atrazine)
Flammability	: Not flammable
Explosion properties	: Not explosive
Oxidation properties	: Not oxidizing

### 10. STABILITY AND REACTIVITY

Stability	: Stable under normal conditions.
Hazardous decomposition products	: Chloride compounds , nitrogen oxides (NO, NO <sub>2</sub> ...) , chloride compounds carbon oxides (CO, CO <sub>2</sub> ) , sulfur oxides (SO <sub>2</sub> , SO <sub>3</sub> ...)
Materials to avoid	: oxidizing agents , acids , alkali .



# MATERIAL SAFETY DATA SHEET

Page : 3

Revised edition no : 1

Date : 20 / 5 / 2008

Supersedes : 0 / 0 / 0

## SULCOTRIONE/ATRAZINE 125/300 SC

H-0155

### 11. TOXICOLOGICAL INFORMATION

On product	: Based on data of ingredients
Rat oral LD50 [mg/kg]	: >2,000
Rat dermal LD50 [mg/kg]	: > 2,000
Rat inhalation LC50 [mg/l/4h]	: >5.13
Dermal irritation (rabbit)	: Not irritating
Eyes irritation (rabbit)	: Mildly irritating
Sensitization	: Sensitizer
Chronic toxicity	: Sulcotrione: NOEL (rat)=100 ppm or 0.5 mg/kg/day (2 years) NOEL (dog): 1000 mg/kg/day (2 yrs). Atrazine: NOEL (rat)=10 ppm (2 years).
Carcinogenicity	: <b>Sulcotrione:</b> : EPA : Not classified : EU : Not classified : IARC : Not classified  : <b>Atrazine:</b> : EPA Group C: Possible human carcinogen. : EU: Carc.Cat. 3 : IARC classification: group 2B
Mutagenicity	: Sulcotrione & Atrazine: Not mutagenic.
Reproductive toxicity	: Atrazine: NOEL (rat)= 50 ppm (2 generations)
Teratogenicity	: Sulcotrione: Not teratogenic in animal experiments : Atrazine: NOEL (rat)=25 mg/kg/day

### 12. ECOLOGICAL INFORMATION

Ecological effects information	
96 Hour - LC50- fish [mg/l]	: Guppy=5.31 (Atrazine)
48 H-LC50-Daphnia magna [mg/l]	: > 200 (Sulcotrione)
48 H-EC50 - Daphnia magna [mg/l]	: 44 (Atrazine)
72 H-EC50 Algae [mg/l]	: 1.2 (Sulcotrione) 3.14 (Atrazine)
LD50 Birds [mg/kg]	: >2,111 (Sulcotrione) Bobwhite quail >2,000 (Atrazine)
Birds LC50 [ppm]	: 8 day feeding: Mallard duck & Bobwhite quail>5,620 (Sulcotrione)
LD50 - Japanese quail [mg/kg]	: 1796 (Atrazine)
Bees LD50 [µg/Bee]	: Oral & Contact >200 (Sulcotrione) Oral & Contact > 100 (Atrazine)
Persistence and degradability	: <b>Sulcotrione: Soil :</b> : Half-life time (t1/2) Lab: 15-74 days : Half-life time (t1/2) Field: 1-11 days : Degradation is primarily via: microorganisms  : <b>Atrazine: Soil :</b> : The product is not persistent. : Half-life time (t1/2) : 16-77 days. : Degradation is primarily via: chemical hydrolysis  : <b>Atrazine: Water :</b> : Half-life time (t1/2) :10-105 days.
Mobility	: <b>Sulcotrione: Soil :</b> : Koc : 44-940 mL/g : Low mobility



# MATERIAL SAFETY DATA SHEET

Page : 4

Revised edition no : 1

Date : 20 / 5 / 2008

Supersedes : 0 / 0 / 0

**SULCOTRIONE/ATRAZINE 125/300 SC****H-0155**

## 12. ECOLOGICAL INFORMATION (continued)

- Bioaccumulative potential** : **Atrazine: Soil** :  
: Moderately mobile  
Koc 39-173 ml/g  
Kd 0.2-18 ml/g  
: Bioaccumulation in aquatic organisms is expected. (Atrazine)

## 13. 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.

## 14. TRANSPORT INFORMATION

### International transport regulations

- UN No. : 3082  
- Proper shipping name : Environmentally hazardous substance, liquid, N.O.S. (Atrazine, Sulcotrione).

### Land transport

- H.I. nr : 90  
- ADR/RID : Class 9, M6, PG III

### Sea transport

- IMO-IMDG code : Class 9, PG III  
- EMS-Nr : F-A, S-F

### Air transport

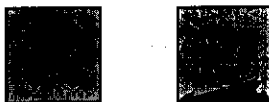
- IATA - Class or division : 9, PG III

**National transport regulations** : No additional national regulations are available/required

## 15. REGULATORY INFORMATION

**EU Classification** : According to Commission Directive 67/548/EEC and its amendments

**Symbol(s)**




**R Phrase(s)**

- : Harmful.  
Dangerous for the environment.  
: R43 - May cause sensitization by skin contact.  
R48/22- Harmful: danger of serious damage to health by prolonged exposure if swallowed.  
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.  
S29/35- Do not empty into drains; dispose of this material and its container in a safe way.  
S36/37- Wear suitable protective clothing and gloves.  
S46- If swallowed, seek medical advice immediately and show this container or label.  
S57- Use appropriate containment to avoid environmental contamination.  
S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.

	<b>MATERIAL SAFETY DATA SHEET</b>	Page : 5
		Revised edition no : 1
		Date : 20 / 5 / 2008
		Supersedes : 0 / 0 / 0
<b>SULCOTRIONE/ATRAZINE 125/300 SC</b>		<b>H-0155</b>

#### 16. OTHER INFORMATION

Text of R-phrases in heading 2 : R43 - May cause sensitization by skin contact.  
R48/22 - Harmful : danger of serious damage to health by prolonged exposure if swallowed.  
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

End of document