



# MATERIAL SAFETY DATA SHEET

Page : 1 of 4

Revised edition no : 2

Date : 18 / 1 / 2011

Supersedes : 17 / 1 / 2011

## METAZACHLOR 50 SC

**H-0191-22022**

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

**Trade name** : METAZACHLOR 50 SC  
**Chemical description** : Metazachlor: 2-chloro-N-(pyrazol-1-ylmethyl)acet-2',6'-xylidide  
**Use** : Herbicide  
**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

**Human health hazards** : Harmful if swallowed. May cause sensitization by skin contact.  
**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
Metazachlor	: 41 - 45 %	67129-08-2	266-583-0	-----	-----	R43 N: R50-53

### 4. First aid measures

**First aid**  
**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** : for at least 15 minutes.  
Wash out with plenty of water with the eyelid held wide open Get medical attention.  
**Inhalation** : Remove victim to fresh air. If breathing is difficult: artificial respiration .  
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.  
**Protection of fire-fighters** : Self-contained breathing apparatus and total protection required in enclosed areas.  
**Hazardous decomposition products** : Chloride compounds , nitrogen oxides (NO, NO2...) , carbon oxides (CO, CO2) .

### 6. Accidental release measures

**Personal precautions** : Wear suitable protective clothing, gloves and eye/face protection.

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Page : 2 of 4

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**H-0191-22022**

### 6. Accidental release measures (continued)

- 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.

### 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** **Metazachlor: No data available.**

### 9. Physical and chemical properties

- Physical state** : Liquid
- Colour** : White
- Odour** : Faint odour
- pH value** : 5 - 8 (1% in dionized water)
- Freezing point [°C]** : Not applicable
- Initial boiling point [°C]** : Not applicable for mixtures
- Vapour pressure** : Not applicable for mixtures
- Relative density** : 1.13 (+/- 0.03) g/ml
- Viscosity** : No Newtonian behaviour.  
128 mPa s to 1416 mPa s (20°C )  
94 mPa s to 1133 mPa s (40°C)
- Solubility** : Not applicable
- Flash point [°C]** : > 100
- Auto-ignition temperature [°C]** : > 600
- Log P octanol / water** : 2.5 (pH 7, 22 °C, Metazachlor).
- Flammability** : Not applicable

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# MATERIAL SAFETY DATA SHEET

Page : 3 of 4

Revised edition no : 2

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**H-0191-22022**

### 9. Physical and chemical properties (continued)

Explosion properties : Not explosive  
Explosion limits : Not applicable  
Oxidizing properties : Not oxidizing

### 10. Stability and reactivity

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

### 11. Toxicological information

On product  
Oral, Rat LD50 [mg/kg] : >2,000 (male); 1,234 (female)  
Dermal, Rat LD50 [mg/kg] : >4,000  
Inhalation, Rat LC50 [mg/l/4h] : > 3.99 Maximum concentration attainable.  
Skin corrosion/ irritation : Not irritant  
Serious eye damage/ irritation : Minimal irritant  
Respiratory or skin sensitization : Sensitizer  
Carcinogenicity : Not classified  
Germ cell mutagenicity : Not mutagenic  
Reproductive toxicity : Not considered to be toxic for the reproductive system.

### 12. Ecological information

On product  
96 H-LC50 - Rainbow trout [mg/l] : 7.34  
48 H-EC50 - Daphnia magna [mg/l] : 67.8  
72H- EC50 - Algae [mg/l] : 0.043  
LD50 Birds [mg/kg] : Japanese quail >2,000  
Bees LD50 [µg/Bee] : Not toxic to bees  
Persistence and degradability : Half-life time (t<sub>1/2</sub>) : Field: 3-21 days

### 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

- UN No. : 3082

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# MATERIAL SAFETY DATA SHEET

Page : 4 of 4

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**H-0191-22022**

### 14. Transport information (continued)

- Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(45% METAZACHLOR)
- Packing group : III
- Class : 9
- H.I. nr : 90
- IMDG-Marine pollution : Yes

### 15. Regulatory information

- EU Classification** : According to Commission Directive 67/548/EEC, 1999/45/EC and its amendments
- Symbol(s)** : N: Dangerous for the environment.  
Xn: Harmful.



- R Phrase(s)** : R22 - Harmful if swallowed.  
R43 - May cause sensitization by skin contact.  
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- S Phrase(s)** : S2- Keep out of the reach of children.  
S13- Keep away from food, drink and animal feedingstuffs.  
S24- Avoid contact with skin.  
S29/35- Do not empty into drains; dispose of this material and its container in a safe way.  
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.

### 16. Other information

- List of full text of R-phrases in section 3.** : R43 - May cause sensitization by skin contact.  
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- Print date** : 18 / 1 / 2011

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