

**SAFETY DATA SHEET**  
**EU Regulation No. 1907/2006,**  
**Annex II**

Page : 1

Revised edition no : 3

Date : 18 / 10 / 2012

Supersedes : 15 / 5 / 2012

**SULTAN 50 SC**

**H-0191-22022-RAII**

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

**1.1. Product identifier**

Trade name : SULTAN 50 SC

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Relevant identified uses : Herbicide

Uses advised against : None under normal conditions.

**1.3. Details of the supplier of the safety data sheet**

: ADAMA SOUTH AFRICA (PTY) LTD  
21 Viben Street  
Brackenfell 7560

Email : msds@mcw.co.il

**1.4. Emergency telephone number**

: +27 82 331 6463  
+27 21 982 1460

**SECTION 2. Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification 67/548/EEC (DSD) - 1999/45/EC (DPD)**

: Carc. Cat. 3; R40  
Xn; R22  
R43  
N; R50-53

**2.2. Label elements**

**Labelling 1999/45/EC (DPD)**

Symbol(s) : N : Dangerous for the environment.  
Xn : Harmful.



R Phrase(s) : R22 - Harmful if swallowed.  
R40 - Limited evidence of a carcinogenic effect.  
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) : S02 - 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 container to avoid environmental contamination.  
S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.

**2.3. Other hazards**

Other hazards : None under normal conditions.

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**SECTION 3. Composition/information on ingredients**

Substance name	Concentration % w/w	CAS No	EC No	Index No	REACH Reg.	Classification
Metazachlor	: 42 - 47 %	67129-08-2	266-583-0	----	----	Carc. Cat. 3; R40 R43 N; R50-53 ----- Carc. 2 - H351 Skin Sens. 1 - H317 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

**SECTION 4. First aid measures**

**4.1. Description of first aid measures**

**First aid measures**

- Inhalation** : Remove victim to fresh air. If breathing is difficult: artificial respiration .  
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.
- Ingestion** : Wash out mouth with plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.

**4.2. Most important symptoms and effects, both acute and delayed**

: Not available

**4.3. Indication of any immediate medical attention and special treatment needed**

- Note to physician** : No specific antidote known. Treat symptomatically and give supportive therapy.
- Protection of first-aiders** : Use appropriate protection (see section 8).

**SECTION 5. Fire-fighting measures**

**5.1. Extinguishing media**

- Suitable extinguishing media** : For small fire : dry chemical powder , water spray carbon dioxide  
For large fire : foam , water fog , water spray.

**5.2. Special hazards arising from the substance or mixture**

- Hazardous decomposition products** : Chloride compounds , nitrogen oxides (NO, NO2) , carbon oxides (CO, CO2) .

**5.3. Advice for fire-fighters**

- Protection against fire** : Self-contained breathing apparatus and total protection required in enclosed areas.

**SECTION 6. Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

- For emergency responders** : Wear suitable protective clothing, gloves and eye/face protection.

**6.2. Environmental precautions**

- Environmental precautions** : Do not empty into drains Do not discharge into the environment.

**6.3. Methods and material for containment and cleaning up**

- Clean up methods** : Collect spills and put it into appropriated container. Dispose of this material and its container at hazardous or special waste collection point.

**6.4. Reference to other sections**

: See section 8

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**SECTION 7. Handling and storage**

**7.1. Precautions for safe handling**

Handling : Ventilation required.

**7.2. Conditions for safe storage, including any incompatibilities**

Storage : Keep in original containers. Keep away from food, drink and animal feeding stuffs. Store in dry, well-ventilated area.

Storage - away from : Direct sunlight .

**7.3. Specific end use(s)**

Precautions in handling and storage : Handle in accordance with good industrial hygiene and safety procedures.

**SECTION 8. Exposure controls/personal protection**

**8.1. Control parameters**

TLV [mg/m<sup>3</sup>] : Not established

**8.2. Exposure controls**

: When using do not eat, drink or smoke.  
Wash hands thoroughly after handling. Wash clothing before re-using.

**Personal protection**

- Respiratory protection : Respiratory protection is not required if good ventilation is maintained
- Hand protection : Wear suitable gloves.
- Skin protection : Wear suitable protective clothing Wear safety boots.
- Eye protection : Chemical goggles or safety glasses.

**SECTION 9. Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Appearance  
Physical state : Liquid  
Colour : White  
Odour : Characteristic odour  
Odour threshold : Not available  
pH : 5.5-7.5  
Melting point / Freezing point : Not applicable  
Initial boiling point - boiling range : Not applicable for mixtures  
Flash point : > 100  
Evaporation rate : Not available  
Flammability : Not applicable for liquids  
Explosion limits (lower - upper) : Not available  
Vapour pressure : Not applicable  
Vapour density : Not applicable  
Relative density : density : 1.13 g/ml  
Solubility : Suspension  
Partition coefficient : n-octanol / water : 2.5 (pH 7, 22 °C, Metazachlor).  
Auto-ignition temperature : > 600 °C  
Decomposition temperature : Not available  
Viscosity : No Newtonian behaviour.  
128 mPa s to 1416 mPa s (20°C )  
94 mPa s to 1133 mPa s (40°C)  
Explosive Properties : Not explosive

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**SECTION 9. Physical and chemical properties (continued)**

Oxidising properties : Not oxidizing

**9.2. Other information**

: Not available

**SECTION 10. Stability and reactivity**

**10.1. Reactivity**

: Stable under normal conditions.

**10.2. Chemical stability**

Stability : Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

: None known.

**10.4. Conditions to avoid**

: Extremely high or low temperatures.

**10.5. Incompatible materials**

Materials to avoid : oxidizing agents , acids , alkali .

**10.6. Hazardous decomposition products**

Hazardous decomposition products : Chloride compounds , nitrogen oxides (NO, NO2) , carbon oxides (CO, CO2) .

**SECTION 11. Toxicological information**

On product

**11.1. Information on toxicological effects**

- Acute toxicity
  - 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 : Not irritant
- Respiratory or skin sensitisation : Sensitizer
- Germ cell mutagenicity : Not mutagenic (Metazachlor)
- Carcinogenicity : Limited evidence of a carcinogenic effect. (Metazachlor)
- Reproductive toxicity : Not considered to be toxic for the reproductive system. (Metazachlor)
- STOT-single exposure : Not available
- STOT-repeated exposure : Not available
- Aspiration hazard : Not available

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**SECTION 12. Ecological information**

On product

**12.1. Toxicity**

Acute toxicity

96 H-LC50 - Rainbow trout [mg/l]	: 7.34
48 H-EC50 - Daphnia magna [mg/l]	: 67.8
72 H-EC50 - Algae [mg/l]	: 0.043
Bees LD50 [µg]	: Not toxic to bees
LD50 Birds [mg/kg]	: Japanese quail >2,000

Long-term exposure

**12.2. Persistence - degradability**

Persistence - degradability : Half-life time (t1/2) 6 - 25 days (Metazachlor)  
( Laboratory , 20°C)

**12.3. Bioaccumulative potential**

: Not available

**12.4. Mobility in soil**

: Not available

**12.5. Results of PBT and vPvB assessment**

: Not available

**12.6. Other adverse effects**

: None known.

**SECTION 13. Disposal considerations**

**13.1. Waste treatment methods**

General : 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.

**SECTION 14. Transport information**

**14.1. UN number**

UN N° : 3082

Hazard Label(s)



: 9 : Miscellaneous dangerous substances and articles.

**14.2. UN proper shipping name**

- Land transport - ADR/RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Metazachlor)
- Sea transport - IMO-IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Metazachlor)
- Air transport - ICAO/IATA : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Metazachlor)

**14.3. Transport hazard class(es)**

- Land transport - ADR/RID : 9
- Sea transport - IMO-IMDG : 9
- Air transport - ICAO/IATA : 9

**14.4. Packing group**

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**SECTION 14. Transport information (continued)**

- Land transport - ADR/RID : III
- Sea transport - IMO-IMDG : III
- Air transport - ICAO/IATA : III

**14.5. Environmental hazards**

- IMDG-Marine pollution : Marine pollutant - Polluant marin

**14.6. Special precautions for user**

- : See transport documents.

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

- : Not applicable.

**SECTION 15. Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

- : Ensure all national/local regulations are observed.

**15.2. Chemical Safety Assessment**

- : Not applicable

**SECTION 16. Other information**

*List of relevant R phrases (heading 3)* : *R40 - Limited evidence of a carcinogenic effect.*  
*R43 - May cause sensitization by skin contact.*  
*R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*

*List of relevant H phrases (Section 3)* : *H317 - May cause an allergic skin reaction.*  
*H351 - Suspected of causing cancer*  
*H400 - Very toxic to aquatic life.*  
*H410 - Very toxic to aquatic life with long lasting effects.*

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