



# SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Annex II

## Sultan 50 SC

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Version 2

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## Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

#### Sultan 50 SC

Synonyms Metazachlor 500 SC\*\*\*  
Pure substance/mixture Mixture

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

Recommended Use Herbicide  
Uses advised against No information available

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

Supplier Address ADAMA Agricultural Solutions UK Ltd  
Unit 15, Thatcham Buisness Village Colthrop Way,  
Thatcham Berkshire RG19 4LW, UK : 01635 860555  
Fax: 01635 861555

For further information, please contact

Email address SDS@ADAMA.COM

### 1.4. Emergency telephone number

Emergency Telephone National Chemical Emergency Centre (UK):  
Tel: 01865 407333 (24 hours)

## Section 2: HAZARD IDENTIFICATION

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity - Oral Category 4 - (H302)  
Skin sensitization Category 1 - (H317)  
Carcinogenicity Category 2 - (H351)  
Acute aquatic toxicity Category 1 - (H400)  
Hazardous to the Aquatic Environment - Chronic Hazard Category 1 - (H410)

#### Classification according to Directive 67/548/EEC or 1999/45/EC

Full text of R-phrases: see section 16

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

**2.2. Label elements**

Labeling according to Regulation (EC) No. 1272/2008 [CLP]

**Hazard pictograms****Signal word**

Warning

**Hazard Statements**

H302 - Harmful if swallowed  
 H317 - May cause an allergic skin reaction  
 H351 - Suspected of causing cancer  
 H410 - Very toxic to aquatic life with long lasting effects

**Precautionary Statements**

P102 - Keep out of reach of children  
 P201 - Obtain special instructions before use  
 P270 - Do not eat, drink or smoke when using this product  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection  
 P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
 P501 - Dispose of contents/ container to an approved waste disposal plant

**EU Specific Hazard Statements**

EUH401 - To avoid risks to human health and the environment, comply with the instructions for use

**Additional phrases for PPP**

SP1 - Do not contaminate water with the product or its container

**2.3. Other hazards**

No information available

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

**3.2 Mixture**

Chemical Name	Weight-%	CAS No	EC No	Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Classification according to 67/548/EEC	M-Factor	REACH Registration Number
Metazachlor (ISO)	42-47	67129-08-2	266-583-0	-	Skin Sens. 1 (H317) Carc. 2 (H351) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	Xi; R43 Carc. Cat. 3; R40 N; R50-53	M=100	-

Full text of R-phrases: see section 16

Full text of H- and EUH-phrases: see section 16

### Section 4: FIRST AID MEASURES

**4.1. Description of first aid measures**

<b>General advice</b>	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). First aider: Pay attention to self-protection!.
<b>Inhalation</b>	Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
<b>Ingestion</b>	Rinse mouth. Drink plenty of water. If symptoms persist, call a physician.
<b>Self-protection of the first aider</b>	Use personal protective equipment as required.

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

**Symptoms** None known

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

**Note to physicians** Treat symptomatically.

## **Section 5: FIRE-FIGHTING MEASURES**

### **5.1. Extinguishing media**

#### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **Unsuitable Extinguishing Media**

No information available.

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

No specific hazard known.

### **5.3. Advice for firefighters**

In the event of fire, wear self-contained breathing apparatus

In the event of fire and/or explosion do not breathe fumes.

## **Section 6: ACCIDENTAL RELEASE MEASURES**

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

#### **Personal precautions**

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

#### **For emergency responders**

Use personal protection recommended in Section 8.

### **6.2. Environmental precautions**

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system.

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

**Methods for cleaning up**

Take up mechanically, placing in appropriate containers for disposal.

**6.4. Reference to other sections****Other Information**

See also section 8,13

**Section 7: HANDLING AND STORAGE****7.1. Precautions for safe handling****Advice on safe handling**

Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray.

**General Hygiene Considerations**

When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

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

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place.

**7.3. Specific end use(s)****Risk Management Methods (RMM)**

The information required is contained in this Material Safety Data Sheet.

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters****8.2. Exposure controls****Engineering Controls**

Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment****Eye/face protection**

Tight sealing safety goggles.

**Body Protection**

Suitable protective clothing.

**General Hygiene Considerations**

When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

**Environmental exposure controls**

Do not allow into any sewer, on the ground or into any body of water.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

<u>Property</u>	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
<b>Appearance</b>			
Physical state	: Liquid		
Color	: white		
Odor	: Faint characteristic		
Odor threshold	: No data available		

<b>pH</b>	: 6.7 - 7.7	CIPAC MT 75.3	solution (1 %)
<b>Melting point/freezing point °C</b>	: ----		Not Applicable
<b>Boiling point/boiling range °C</b>	: No data available		
<b>Flash point °C</b>	: > 100	CIPAC MT 12	
<b>Evaporation rate</b>	: Not Applicable		
<b>Flammability (solid, gas)</b>	: Not applicable for liquids		
<b>Upper/lower flammability or explosive limits</b>	: No data available		
<b>Vapor pressure kPa</b>	: ----		Not Applicable
<b>Vapor density</b>	: No data available		
<b>Relative density</b>	: 1.11 - 1.15***	CIPAC MT 3.3	20 °C
<b>Solubility(ies) mg/l</b>	: ----		Not Applicable
<b>Partition Coefficient (n-octanol/water) Log Pow</b>	:		See Section 12 for more information
<b>Autoignition temperature °C</b>	: > 600	EEC A.15	
<b>Decomposition temperature °C</b>	: No data available		
<b>Kinematic viscosity mm<sup>2</sup>/s 40 °C</b>	: 755	CIPAC MT 192	
<b>Explosive properties</b>	: Not an explosive		
<b>Oxidizing properties</b>	: Not oxidizing		
<b>9.2. Other information</b>			
<b>Bulk density g/ml</b>	: ----		Not Applicable
<b>Surface tension mN/m</b>	: 32.7		25 °C; 1%

## Section 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

None under normal processing.

### 10.4. Conditions to avoid

Heat, flames and sparks.

### 10.5. Incompatible materials

No information available

### 10.6. Hazardous decomposition products

None under normal use conditions.

## Section 11: TOXICOLOGY INFORMATION

### 11.1. Information on toxicological effects

#### Acute toxicity

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Oral LD50 mg/kg	: 1234	Rat	OECD 401	
Dermal LD50 mg/kg	: > 4000	Rat	OECD 402	

Inhalation LC50 mg/l/4h	: > 3.99	Rat	OECD 403	Maximum attainable concentration
Skin corrosion/irritation	: Non-irritating to the skin	Rabbit	OECD 404	
Serious eye damage/eye irritation	: Not irritating to eyes	Rabbit	OECD 405	
Respiratory/skin sensitization	: Skin sensitizer	Guinea pig	OECD 406	

**Chronic toxicity****Germ cell mutagenicity****Chemical Name**

Metazachlor (ISO) : Not classified

**Carcinogenicity****Chemical Name**

Metazachlor (ISO) : Suspected of causing cancer

**Reproductive toxicity****Chemical Name**

Metazachlor (ISO) : Not toxic for the reproductive system

**STOT - single exposure****Chemical Name**

Metazachlor (ISO) : Not available

**STOT - repeated exposure****Chemical Name**

Metazachlor (ISO) : Not available

**Aspiration hazard****Chemical Name**

Metazachlor (ISO) : Not available

**Section 12: ECOLOGICAL INFORMATION****12.1. Toxicity****Aquatic toxicity**

<b>Acute toxicity</b>	<b>Values</b>	<b>Species</b>	<b>Method</b>	<b>Remarks</b>
Fish 96-hour LC50 mg/l	: 7.34	Oncorhynchus mykiss	OECD 203	
Crustacea 48-hour EC50 mg/l	: 67.8	Daphnia magna	OECD 202	
Algae 72-hour EC50 mg/l	: 0.0437	D. Subspicatus	OECD 201	
Other plants EC50 mg/l	: 0.0203	Lemna gibba	OECD 221	7 days

**Terrestrial Toxicity****Birds Oral LD50 mg/kg****Chemical Name**

Metazachlor (ISO) : &gt; 2000

**Bees Oral LD50 µg/bee****Chemical Name**

Metazachlor (ISO) : &gt; 72 EPPO 170

**12.2. Persistence and degradability**

<b>Abiotic Degradation</b>	<b>Values</b>	<b>Method</b>	<b>Remarks</b>
Water DT50 days			
Chemical Name			
Metazachlor (ISO)	: 137.6	BBA IV 4-1	pH 5.5-7.1

**Soil DT50 days****Chemical Name**

Metazachlor (ISO) : 10.8 BBA IV: 5-1 pH 5.7-7.2

**Biodegradation****Chemical Name**

Metazachlor (ISO) : Not readily biodegradable

**12.3. Bioaccumulative potential****Partition Coefficient  
(n-octanol/water) Log Pow****Chemical Name**

Metazachlor (ISO) : 2.5 pH 7, 22 ° C

**Bioconcentration factor (BCF)****Chemical Name**

Metazachlor (ISO) : Low

**12.4. Mobility in soil****Adsorption/Desorption****Chemical Name**

Metazachlor (ISO) : 110 OECD 106 Koc

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

The components in this formulation do not meet the criteria for classification as PBT or vPvB

**12.6. Other adverse effects**

No information available.

**Section 13: DISPOSAL CONSIDERATIONS****13.1. Waste treatment methods****Waste from residues/unused products**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging**

Improper disposal or reuse of this container may be dangerous and illegal.

**Other Information**

Waste codes should be assigned by the user based on the application for which the product was used.

**Section 14: TRANSPORTATION INFORMATION****IMDG/IMO**

14.1 UN/ID No 3082  
 14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( Metazachlor )  
 14.3 Hazard Class 9  
 14.4 Packing Group III  
 14.5 Marine pollutant Yes  
 14.6 Special precautions for user

**RID/ADR**

14.1 UN/ID No 3082  
 14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( Metazachlor )  
 14.3 Hazard Class 9

14.4 Packing Group III  
14.5 Environmental hazard Yes  
14.6 Special precautions for user

**ICAO/IATA**

14.1 UN/ID No 3082  
14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( Metazachlor )  
14.3 Hazard Class 9  
14.4 Packing Group III  
14.5 Environmental hazard Yes  
14.6 Special precautions for user  
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not Applicable

**Section 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.2. Chemical safety assessment**

A chemical safety assessment according to regulation (EC) No. 1907/2006 is not required. A risk assessment was performed according to directive (EC) No. 91/414 or according to regulation (EC) No. 1107/2009.

**Section 16: OTHER INFORMATION****Full text of R-phrases referred to under sections 2 and 3**

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

**Full text of H-Statements referred to under sections 2 and 3**

H302 - Harmful if swallowed  
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

**Revision Note** \*\*\* - Change from previous version.

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet