

SAFETY DATA SHEET

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

Sultan 50 SC

Revision date 09-Feb-2022 Version 3 Supersedes Date: 02-Mar-2015 Product Code(s)

HRB00823-44/1

Print Date 09-Feb-2022 AG-M5-500 SC1 22022

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Sultan 50 SC

Other means of identification

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; Professional use Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Supplier ADAMA Agricultural Solutions UK Ltd

Third Floor East

1410 Arlington Business Park

Theale READING RG7 4SA

Tel: 01635 860555 Fax: 01635 861555

For further information, please contact

E-mail address ukenquiries@adama.com

1.4. Emergency telephone number

Emergency Telephone National Chemical Emergency Centre (UK):

Tel: 01865 407333 (24 hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

grade in date in a date in an ignormality in the state of	
Acute toxicity - Oral	Category 4 - (H302)
Skin sensitization	Category 1 - (H317)
Carcinogenicity	Category 2 - (H351)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 1 - (H410)

2.2. Label elements

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

Contains Metazachlor (ISO), 1,2-Benzisothiazolin-3-one

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 (Do not clean application

equipment near surface water/Avoid contamination via drains from farmyards and roads).

2.3. Other hazards

PBT & vPvB The product does not contain any substance(s) classified as PBT or vPvB.

Endocrine Disruptor Information None known.

Persistent Organic Pollutants Not applicable.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	CAS No	EC No	Index No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	REACH Registration Number
Metazachlor (ISO)	67129-08-2	266-583-0	616-205-00-9	42 - 47	Skin Sens. 1B (H317)			No data available

					Carc. 2 (H351) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		M=100 M=100	
Poly(oxy-1,2-ethanediy I), .alpha[tris(1-phenylet hyl)phenyl]omegahy droxy-		-		1 - 3	Aquatic Chronic 3 (H412)			No data available
1,2-Benzisothiazolin-3- one	2634-33-5	220-120-9	613-088-00-6	< 0.05	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Acute Tox. 4 (H302) Aquatic Acute 1 (H400)	Skin Sens. 1 :: C>=0.05%		01-212076154 0-60-XXXX

Acute toxicity estimates (ATEs) according to Part 3 of Annex VI to Regulation (EC) No 1272/2008 are indicated in this table, if available.

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get

medical advice/attention.

Inhalation Remove to fresh air.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin contact Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation

or allergic reactions see a physician.

Ingestion Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person. Call a physician.

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

Symptoms Itching. Rashes. Hives.

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

Note to physicians May cause sensitization in susceptible persons. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Small Fire Dry chemical, CO2, water spray or regular foam

Do not scatter spilled material with high pressure water streams Large Fire

Dike fire-control water for later disposal Water spray, fog or regular foam

Move containers from fire area if you can do it without risk

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Some may burn but none ignite readily A fire or explosion

Containers may explode when heated

Some may be transported hot

Specific hazards arising from the

chemical

Product is or contains a sensitizer. May cause sensitization by skin contact.

5.3. Advice for firefighters

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal Personal precautions

protective equipment as required. Evacuate personnel to safe areas. Keep people away

from and upwind of spill/leak.

Health risk Contact may cause burns to skin and eyes

Runoff from fire control may cause pollution

Fire may produce irritating, corrosive and/or toxic gases

Inhalation of material may be harmful

Inhalation of Asbestos dust may have a damaging effect on the lungs Some liquids produce vapors that may cause dizziness or suffocation

Spill or leak statements Avoid inhalation of asbestos dust

Do not touch or walk through spilled material

Prevent dust cloud

Stop leak if you can do it without risk

Other information Refer to protective measures listed in Sections 7 and 8.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Spill

Environmental precautions See Section 12 for additional Ecological Information.

Incineration If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all

directions: also, consider initial evacuation for 800 meters (1/2 mile) in all directions Increase, in the downwind direction, as necessary, the isolation distance shown under "Public safety"

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards

Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections

See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

General hygiene considerations

Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

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

7.3. Specific end use(s)

Identified uses

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Derived No Effect Level (DNEL) Predicted No Effect Concentration

(PNEC)

No information available. No information available.

8.2. Exposure controls **Engineering controls**

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection

Tight sealing safety goggles.

Suitable chemical resistant gloves (EN 374) also with prolonged, direct contact Hand protection

(recommendation: protection index 6, corresponding > 480 minutes Permeability time (permeation) according to EN 374): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5

mm), butyl rubber (0.7 mm).

Skin and body protection Use suitable protective clothing and equipment if required, such as safety goggles certified

to EN 166, gloves certified to EN 374, protective boots certified to EN 13832, and/or a water

repellent woven coverall with 65% polyester and 35 % cotton.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

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General hygiene considerations Do

Do not eat, drink or smoke when using this product. Wash hands before breaks and

immediately after handling the product.

Environmental exposure controls

Local authorities should be advised if significant spillages cannot be contained.

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> Appearance

Physical state : Liquid Color : white

Odor : Faint characteristic Odor threshold : No data available

pH : 6.7 - 7.7 CIPAC MT 75.3 solution (1%)
Melting point / freezing point °C : ---- Not applicable

Boiling point / boiling range °C : No data available

Flash point °C : > 100 CIPAC MT 12

Evaporation rate : No data available
Flammability (solid, gas) : Not applicable for liquids

Upper/lower flammability or : No data available explosive limits

 Vapor pressure
 kPa
 : --- Not applicable

 Vapor density
 : No data available

Relative density : 1.11 - 1.15 CIPAC MT 3.3 20 °C

Solubility(ies) mg/l : ---- Not applicable

Partition coefficient Log Pow : See Section 12 for additional

Ecological Information

Autoignition temperature °C : > 600 EEC A.15

Decomposition temperature °C : No data available

Kinematic viscosity mm2/s 40 °C : 755 CIPAC MT 192

Surface tension : 32.7 25°C 1%

Particle Size : Not applicable

9.2. Other information

Bulk density g/ml : ----

9.2.1. Information with regard to physical hazard classes
Explosive properties : Not an explosive
Oxidizing properties : Not oxidizing

9.2.2. Other safety characteristics

No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions
None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materialsNone known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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	: > 3.99	Rat	OECD 403	Maximum attainable concentration
Skin corrosion/irritation Serious eye damage/eye irritation	: Non-irritating to the skin : Not irritating to eyes	Rabbit Rabbit	OECD 404 OECD 405	concentration
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) : No data available

STOT - Repeated Exposure

Chemical name

Metazachlor (ISO) : No data available

Aspiration hazard Chemical name

Metazachlor (ISO) : No data available

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity Values Species Method Remarks Oncorhynchus mykiss Fish 96-hour LC50 mg/l 7.34 **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

<u>Chronic aquatic toxicity</u> <u>Values</u> <u>Species</u> <u>Method</u> <u>Remarks</u>

Fish NOEC mg/l : No data available
Crustacea NOEC mg/l : No data available

Algae NOEC mg/l : 0.0145 D. Subspicatus OECD 201
Other plants NOEC mg/l : 0.0068 Lemna gibba OECD 221

Terrestrial Toxicity
Birds Oral LD50 mg/kg

Chemical name

Metazachlor (ISO) : > 2000

Bees Oral LD50 µg/bee

Chemical name

Metazachlor (ISO) : > 72 EPPO 170

12.2. Persistence and degradability

Abiotic Degradation 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 <u>Values</u> <u>Method</u> <u>Remarks</u>

(n-octanol/water) Log Pow

Chemical name
Metazachlor (ISO) : 2.5

Bioconcentration factor (BCF)

Chemical name

Metazachlor (ISO) : Low

12.4. Mobility in soil

Adsorption/Desorption Values Method Remarks

Chemical name

Metazachlor (ISO) **OECD 106** KOC : 110

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. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

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.

Yes

SECTION 14: Transport information

ADR

14.1 UN number UN3082

14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Metazachlor (ISO))

14.3 Transport hazard class(es)

14.4 Packing group Ш

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Metazachlor (ISO)), 9, III

14.5 Environmental hazard

14.6 Special Precautions for Users

Special Provisions 274, 335, 601, 375

Classification code M6

RID

14.1 UN number UN3082

14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Metazachlor (ISO))

14.3 Transport hazard class(es)

14.4 Packing group Ш

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Metazachlor (ISO)), 9, III

Environmental hazard Yes

Special Precautions for Users

14.5 Environmental hazard Yes

14.6 Special Precautions for Users

Special Provisions 274, 335, 375, 601

Classification code M6

IMDG

14.1 UN number UN3082

14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Metazachlor (ISO))

14.3 Transport hazard class(es) 14.4 Packing group

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Description

(Metazachlor (ISO)), 9, III, Marine pollutant

14.5 Environmental hazard

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14.6 Special Precautions for Users
14.5 Marine pollutant P
Environmental hazard Yes

14.6 Special Precautions for Users

Special Provisions 274, 335, 969 **EmS-No** F-A, S-F

IMDG Stowage and segregation Category A No information available

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14.7 Maritime transport in bulk No information available according to IMO instruments

<u>IATA</u>

14.1 UN number UN3082

14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Metazachlor (ISO))

14.3 Transport hazard class(es) 9
14.4 Packing group |||

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Metazachlor (ISO)), 9, III

14.5 Environmental hazard Yes

14.6 Special Precautions for Users

Special Provisions A97, A158, A197

ERG Code



SECTION 15: Regulatory information

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

Trade name / designation Registration Number(s) Date

Not Applicable Not Applicable Not Applicable

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants

Not applicable

15.2. Chemical safety assessment

Chemical Safety Report A risk assessment was performed according to directive (EC) No. 91/414 or according to

regulation (EC) No. 1107/2009

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H302 - Harmful if swallowed

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H351 - Suspected of causing cancer

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H412 - Harmful to aquatic life with long lasting effects

Legend

SVHC: Substances of Very High Concern for Authorization:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value * Skin designation

Revision date 09-Feb-2022

Reason for revision Changes made to the last version are labeled with this sign ***

Abbreviations and acronyms

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

CAS Number - Chemical Abstracts Service number EINECS and ELINCS Number

EINECS - European Inventory of Existing Commercial Substances ELINCS - European List of notified Chemical Substances

ELINGS - European List of notified Chemical Substances

IATA - International Air Transport Association

ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG - International Maritime Dangerous Goods LC50 - Lethal Concentration to 50 % of a test population

LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
OECD - Organization for Economic Co-operation and Development

PBT - Persistent, Bioaccumulative and Toxic substance

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

STOT - Specific Target Organ Toxicity

vPvB - Very Persistent and Very Bioaccumulative

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

Classification of the mixture
H302 - Harmful if swallowed
H317 - May cause an allergic skin reaction

Classification procedure
Classification based on test data
Classification based on test data

H351 - Suspected of causing cancer Classification based on Calculation method

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

Classification based on test data

Classification based on test data

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

Disclaimer

The information provided in this 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