



SAFETY DATA SHEET

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Supersedes : 0 / 0 / 0

Sultan Super**15226041LT**

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

1.1. Product identifier

Identification of the product : Liquid.
Ref. n° : 15226041LT

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

Use : Agriculture
Plant Protection Product.
Herbicide
(SC) Suspension concentrate (Flowable concentrate).

1.3. Details of the supplier of the safety data sheet

Company identification : Makhteshim-Agan Benelux & Nordic B.V.
P.O. Box 355 3830 AK Leusden, The Netherlands
Phone: (+31) (0) 33 4453 160
Fax: (+31) (0) 33 4321 598
h.vogelezang@mabeno.com

1.4. Emergency telephone number

Emergency phone number : See supplier. (Telephone number is accessible only during business hours.)
or
Call local Poison Control Centre for assistance
LT : +370 52 36 20 52, +370 52 36 20 92
LV : +371 704 2468
EE : +372 6269379, 16662

2. Hazards identification

2.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

: Carc. Cat. 3; R40
N; R50-53

2.2. Label elements

Labelling EC 67/548 or EC 1999/45

Symbol(s)



- R Phrase(s)

- S Phrase(s)

• Supplemental hazard information

: Harmful
Dangerous for the environment.
: R 40 : Limited evidence of a carcinogenic effect.
R 50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
: S 2 : Keep out of the reach of children.
S 13 : Keep away from food, drink and animal feedingstuffs.
S 35 : This material and its container must be disposed of in a safe way.
S 36/37 : Wear suitable protective clothing and gloves.
S 46 : If swallowed, seek medical advice immediately and show this container or label.
S 61 : Avoid release to the environment. Refer to special instructions/safety data sheets.
: To avoid risks to human health and the environment, comply with the instructions for use.

2.3. Other hazards

None under normal conditions.

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2. Hazards identification (continued)

3. Composition/information on ingredients

Mixture							
Substance name		Value(s)	CAS nr	EC nr	EC annex	REACH	CERTIFICATE
Metazachlor	:	31 - 35 %	67129-08-2	266-583-0	----	----	R43 N; R50-53 ----- Skin Sens. 1 Aquatic Acute 1 Aquatic Chronic 1
Quinmerac	:	10 - 12 %	90717-03-6	402-790-6	----	----	R52-53 ----- Aquatic Chronic 3

Other information

This product is considered to be hazardous and contains hazardous components.
See heading 16, where the full text of each relevant R phrase shall be listed.

4. First aid measures

4.1. Description of first aid measures

First aid

- **Inhalation** : Remove victim to fresh air.
If not breathing, give artificial respiration.
Seek medical advice.
- **Skin contact** : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- **Eye contact** : Continue to rinse eye with clean water for 15 minutes, retracting eyelids often.
Seek medical advice.
- **Ingestion** : Rinse mouth with water.
Never give anything by mouth to an unconscious person.
Seek medical advice (show the label where possible).

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

No information available.

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

- Note to physician** : No specific antidote known.
Give supportive therapy. Treat symptomatically.

5. Fire-fighting measures

5.1. Extinguishing media

Extinguishing media

- **Suitable** : dry chemical , carbon dioxide , water spray .

5.2. Special hazards arising from the substance or mixture

- Special exposure hazards** : Thermal decomposition generates: chlorides , nitrogen oxides

5.3. Advice for fire-fighters

- Protection against fire** : Wear self-contained breathing apparatus, rubber boots and thick rubber gloves.

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6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid contact with skin and eyes.
Good ventilation of the workplace required.
Wear recommended personal protective equipment.

6.2. Environmental precautions

Environmental precautions : Do not discharge into drains or the environment
Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

After spillage and/or leakage : Absorb spill material with inert material (e.g., dry sand or earth), then place in a chemical waste container.
Dispose of this material and its container to hazardous or special waste collection point.

6.4. Reference to other sections

See Heading 8.

7. Handling and storage

7.1. Precautions for safe handling

Handling : Good ventilation of the workplace required.
Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep away from direct sunlight .
Keep in original containers.
Store in dry, cool, well-ventilated area.

7.3. Specific end use(s)

No information available.

8. Exposure controls/personal protection

8.1. Control parameters

Personal protection

- **Respiratory protection** : During spraying, wear suitable respiratory equipment.
- **Skin protection** : Wear suitable protective clothing and chemical resistant boots
- **Eye protection** : Chemical goggles or face shield with safety glasses.
- **Hand protection** : Wear suitable gloves resistant to chemical penetration.
Long-term exposure :
Breakthrough time : 480 min
Thickness of the material : 0.7 mm
Short-term exposure :
Breakthrough time : 30 min
Thickness of the material : 0.4 mm
Material : Neoprene , Nitrile

Industrial hygiene : Good ventilation of the workplace required.
Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.
Wash clothing before re-using.

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8. Exposure controls/personal protection (continued)

8.2. Occupational Exposure Limits

Occupational Exposure Limits : Not established.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid.
Colour : Beige.
Odour : Characteristic
pH value : 3.8 (1% solution)
Flash point [°C] : > 100
Density [kg/m³] : 1139 (20 °C)
Solubility in water : Suspension.
Log P octanol / water : 2.13 (Metazachlor)
< 0.2 (Quinmerac; pH=7)
Viscosity : 121 - 295 mPa.s (20 °C)
95 - 229 mPa.s (40 °C)
Oxidising properties : Not oxidising.
Explosive properties : Not explosive.

9.2. Other information

Surface tension : 40.3 nM/m (20 °C)

10. Stability and reactivity

10.1. Reactivity

Reactivity : No information available.

10.2. Chemical stability

Stability : Stable under recommended storage and handling conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : None.
Hazardous Polymerization : No Polymerisation.

10.4. Conditions to avoid

Conditions to avoid : direct sunlight

10.5. Incompatible materials

Materials to avoid : Oxidizing agents , alkali , acids .

10.6. Hazardous decomposition products

Hazardous decomposition products : Thermal decomposition generates: nitrogen oxides , chlorides

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11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity	
- Oral	: LD50 (rat) : > 2000 mg/kg
- Dermal	: LD50 (rat) : > 2000 mg/kg
- Inhalation	: No information available.
Skin corrosion/irritation	: Not irritant.
Serious eye damage/eye irritation	: Not irritant.
Respiratory or skin sensitisation	: May cause sensitization by skin contact.
Carcinogenicity	: Limited evidence of a carcinogenic effect. (Metazachlor) No carcinogenic effect. (Quinmerac)
Germ cell mutagenicity	: Non-mutagenic. (Metazachlor & Quinmerax)
Reproductive toxicity	: no reproduction hazard (Metazachlor & Quinmerax)
Specific Target Organ Toxicity - Single exposure	: No information available.
Specific Target Organ Toxicity - Repeated exposure	: No information available.
Aspiration hazard	: No information available.

12. Ecological information

12.1. Toxicity

Ecotoxicity	: Preparation. Fish LC50 (96h) = 12.7 mg/l Oncorhynchus mykiss Daphnia magna EC50 (48h) = 83 mg/l Algae EC50 (72h) = 0.0091 mg/l Bees LD50 (Oral) : > 72 µg/ bee (Metazachlor) LD50 (Contact) : > 100 µg/ bee (Metazachlor) LD50 (Oral & Contact) : > 100 µg/ bee (Quinmerac) Birds LD50 : > 2000 mg/kg (Metazachlor & Quinmerac)
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12.2. Persistence - degradability

Persistence and degradability	: Metazachlor: water. Half-life (days): 137.6 (pH= 5.5 - 7.1) Soil. Half-life (days): 10.8 (pH= 5.7 - 7.2) Quinmerac: Soil. Half-life (days): 10.4
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12.3. Bioaccumulative potential

Bioaccumulative potential	: This product shows a low bioaccumulation potential. (Metazachlor)
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12.4. Mobility in soil

Mobility	: Koc = 110 (Metazachlor)
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12.5. Results of PBT and vPvB assessment

No information available.

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12. Ecological information (continued)

12.6. Other adverse effects

No information available.

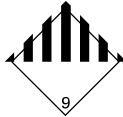
13. Disposal considerations

13.1. Waste treatment methods

Disposal

: Dispose of in a pesticide approved landfill. In a chemical incinerator equipped with scrubbers. Dispose in a safe manner in accordance with local/national regulations.

14. Transport information

UN Number : 3082**Hazard Label(s)**

: 9 9E

Proper shipping name

: UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Metazachlor), 9 (9E), III, (E)

H.I. nr :

: 90

Land transport**ADR/VLG**: Class : 9
Packing group : III**Limited Quantities**: Remarks:
Combination packaging: Maximum net quantity per inner packaging: 5 l.**Sea transport****IMO - Proper shipping name**

: UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Metazachlor), 9 (9E), III, (E)

IMO-IMDG code: Class : 9
Packing group : III**IMDG-Marine pollution**

: Yes.

EmS-Nr

: F-A , S-F

15. Regulatory information

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

Ensure all national/local regulations are observed.

Lithuania: SP 1 - Do not contaminate water with the product or its container. Do not clean application equipment near surface water.
SPe 3 - To protect aquatic organisms respect an unsprayed buffer zone of 10m to surface water bodies.
SPe 3 - To protect non-target arthropods respect an unsprayed buffer zone of 5m to non-agricultural land.
SPe 1 - To protect groundwater do not apply this or any other product containing Metazachlor & Quinme more than 1x/3 years
Contains : Metazachlor
May cause sensitization by skin contact.**Makhteshim-Agan Benelux & Nordic B.V.**P.O. Box 355 3830 AK Nederland
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15. Regulatory information (continued)

15.2. Chemical Safety Assessment

No information available.

16. Other information

Full text R phrases under heading 3 : R 43 : May cause sensitization by skin contact.
R 50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 52/53 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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The content and format of the MSDS are in accordance with Regulation (EC) No 1907/2006 and subsequent amendments.

DISCLAIMER OF LIABILITY 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.

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