

Trade name: Magnesii chloridum 4,5 hydricum

Substance number: 065212

Version: 3 / CH

Date revised: 10.11.2021

Replaces Version: 2 / CH

Print date: 10.11.21

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

1.1. Product identifier

Magnesii chloridum 4,5 hydricum

Item No. 06521200

Substance / product identification

CAS-No. 56491-84-0

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

Use of the substance/preparation

industry

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Hänseler AG

Industriestrasse 35

9100 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible

for this SDS

1.4. Emergency telephone number

Switzerland :145 / Abroad +41 (0)44 251 51 51

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

Voluntary product information following the Safety Data Sheet format

This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

The product does not require a hazard warning label in accordance with Regulation (EC) No 1272/2008.

2.3. Other hazards

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients

Molecular weight

Value	176.3	g/mol
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Further ingredients

Magnesium chloride 4,5 hydrate

CAS No. 56491-84-0

Registration no. 01-2119485597-19-0001

Concentration >= 95 %

Advice: [4]

Note

[4] Voluntary information

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SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Adhere to personal protective measures when giving first aid

After inhalation

Ensure supply of fresh air. In the event of symptoms take medical treatment.

After skin contact

Wash off with soap and water. Consult a doctor if skin irritation persists.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). By continuous complaints consult a physician.

After ingestion

Do not induce vomiting. Summon a doctor immediately. Rinse out mouth and give plenty of water to drink.

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

Nausea, Vomiting

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

Hints for the physician / treatment

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide, Dry powder, Water spray jet, Extinguish greater fire with water spray or alcohol-resistant foam.

5.2. Special hazards arising from the substance or mixture

Development of toxic gases; In the event of fire the following can be released: Hydrogen chloride (HCl); Chlorine (Cl₂)

5.3. Advice for firefighters

Special protective equipment for fire-fighting

No special measures required.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep away unprotected persons. Avoid dust formation.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

Pick up mechanically. Send in suitable containers for recovery or disposal. Dispose of absorbed material in accordance with the regulations.

6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding waste disposal, see Section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid dust formation. Observe the usual precautions for handling chemicals.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep only in unopened original container.

Hints on storage assembly

Do not store with oxidizing agents.

Storage classes

Storage class according to TRGS 510

13

Non- combustible solids

Storage category (Switzerland)

NG

Other solid hazardous substances
without classification/labelling
hazardous

Further information on storage conditions

Keep container in a well-ventilated place. Store in a dry place. Protect from atmospheric moisture and water. Product is hygroscopic.

SECTION 8: Exposure controls/personal protection

8.2. Exposure controls

Exposure controls

Provide adequate ventilation. Avoid inhalation of dusts.

General protective and hygiene measures

Observe the usual precautions for handling chemicals. Avoid contact with skin and eyes. Do not inhale dust/fumes/mist. Provide washing facilities at the place of work. Wash hands before breaks and after work. At work do not eat, drink, smoke or take drugs.

Respiratory protection

At intensive and longer exposition use self-contained breathing apparatus.

Hand protection

Gloves

Appropriate Material rubber

Eye protection

Safety glasses

Body protection

protective overalls

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form

crystals

Colour

colourless to white

Odour

odourless

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pH value

Value	5.5	to	7.0
Concentration/H ₂ O	5	%	
Temperature	20	°C	

Melting point

Value	126	°C
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Initial boiling point and boiling range

Value	216	°C
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Flash point

Value	°C
Remarks	Not applicable

Flammability (solid, gas)

Not applicable

Vapour pressure

Remarks	not determined
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Vapour density

Remarks	not determined
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Density

Value	1.57	g/cm ³
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Solubility in water

Value	1180	g/l
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Decomposition temperature

Value	135	°C
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Viscosity**dynamic**

Remarks	not determined
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kinematic

Remarks	not determined
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Explosive properties

evaluation	Not applicable
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Oxidising properties

Remarks	Not applicable
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9.2. Other information**Other information**

The product is not dangerous for explosions.

SECTION 10: Stability and reactivity**10.1. Reactivity**

No decomposition if stored and applied as directed.

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

No decomposition if stored and applied as directed.

10.4. Conditions to avoid

Heat. Keep away from sources of heat and ignition. Protect from atmospheric moisture and water.

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10.5. Incompatible materials

Strong oxidising agents

10.6. Hazardous decomposition products

Toxic gases/vapours, In the event of fire the following can be released: Hydrogen chloride (HCl), Chlorine

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity**

Species	rat		
LD50		7000	mg/kg

Acute oral toxicity (Components)**Magnesium chloride 4,5 hydrate**

Species	rat		
LD50		7000	mg/kg

Magnesium chloride 4,5 hydrate

Species	mouse		
LD50		4000	mg/kg

Acute dermal toxicity

ATE		1'700	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)		

Acute dermal toxicity (Components)**Magnesium chloride 4,5 hydrate**

Species	rabbit		
LD50	>	1700	mg/kg

Skin corrosion/irritation

Remarks	slightly irritating (skin)
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Skin corrosion/irritation (Components)**Magnesium chloride 4,5 hydrate**

evaluation	non-irritant
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Serious eye damage/irritation

Remarks	slightly irritating (Eye)
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Serious eye damage/irritation (Components)**Magnesium chloride 4,5 hydrate**

evaluation	irritant effect possible
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Sensitization

Remarks	No sensitisation effect known.
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Sensitization (Components)**Magnesium chloride 4,5 hydrate**

evaluation	non-sensitizing
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Mutagenicity (Components)**Magnesium chloride 4,5 hydrate**

evaluation	Based on available data, the classification criteria are not met.
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Reproduction toxicity (Components)**Magnesium chloride 4,5 hydrate**

evaluation	No negative effects
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Other information

By appropriate use of the product no health damage is known.
Observe the usual precautions for handling chemicals.

SECTION 12: Ecological information**12.1. Toxicity****Fish toxicity**

Remarks No data available.

Fish toxicity (Components)**Magnesium chloride 4,5 hydrate**

LC50	1837		mg/l
Duration of exposure	96	h	

Daphnia toxicity (Components)**Magnesium chloride 4,5 hydrate**

Species	Daphnia magna		
EC50	475		mg/l
Duration of exposure	48	h	

Algae toxicity (Components)**Magnesium chloride 4,5 hydrate**

Species	Algae		
EC50	86		mg/l
Duration of exposure	72	h	

12.2. Persistence and degradability**General information**

No data available

Biodegradability (Components)**Magnesium chloride 4,5 hydrate**

Remarks Inorganic product, cannot be eliminated from the water by biological purification processes.

12.3. Bioaccumulative potential**General information**

No data available

12.4. Mobility in soil**General information**

No data available

12.5. Results of PBT and vPvB assessment**Evaluation of persistence and bioaccumulation potential (Components)****Magnesium chloride 4,5 hydrate**

The product contains no PBT or vPvB substances.

12.6. Other adverse effects**General information / ecology**

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

In accordance with regulations for special waste, must be taken to an authorised special waste disposal site or incineration plant.

Disposal recommendations for packaging

Dispose of as unused product.

SECTION 14: Transport information ***

	Land transport ADR/RID	Marine transport IMDG/GGVSee ***	Air transport ICAO/IATA ***
14.1. UN number	The product does not constitute a hazardous substance in land transport.	The product does not constitute a hazardous substance in sea transport.	The product does not constitute a hazardous substance in air transport.

SECTION 15: Regulatory information ***

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

Water Hazard Class (Germany) ***

Water Hazard Class (Germany) WGK 3

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.