

Trade name: Magnesii hydroxidum

Substance number: 065256

Version: 4 / CH

Date revised: 26.06.2024

Replaces Version: 3 / CH

Print date: 26.06.24

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

### **1.1. Product identifier**

Magnesii hydroxidum

Item No. 06525600

#### **Substance / product identification**

CAS-No. 1309-42-8

EINECS-No. 215-170-3

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

#### **Use of the substance/preparation**

Paper industry, 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**

The Substance does not meet PBT-criteria. This substance does not meet the vPvB-criteria. This substance does not have endocrine disrupting properties with respect to humans. This substance does not have endocrine disrupting properties with respect to non-target organisms.

## **SECTION 3: Composition/information on ingredients \*\*\***

### **Chemical characterization**

substances

### **Molecular weight**

Value 58.33 g/mol

### **Further ingredients \*\*\***

#### **Magnesium hydroxide**

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Registration no. 01-2119488756-18-XXXX  
Concentration >= 95 %  
Advice: [4]

**Note**

[4] Voluntary information

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Remove contaminated, soaked clothing immediately and dispose of safely.

**After inhalation**

Ensure supply of fresh air. If necessary, give oxygen. Irregular breathing/no breathing: artificial respiration. Summon a doctor immediately.

**After skin contact**

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

**After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.). Seek medical advice immediately.

**After ingestion**

Rinse out mouth and give plenty of water to drink. Never give anything by mouth to an unconscious person. If swallowed, seek medical advice immediately and show this container or label.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

**Non suitable extinguishing media**

Full water jet

**5.3. Advice for firefighters****Special protective equipment for fire-fighting**

Use personal protective clothing. Use self-contained breathing apparatus.

**Other information**

Cool endangered containers with water spray jet.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Use personal protective clothing. Avoid dust formation.

**6.2. Environmental precautions**

Do not discharge into the drains/surface waters/groundwater. Advise water authority if spillage has entered water course or drainage system.

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

Pick up mechanically. Avoid raising dust. For large amounts: take up with appropriate instrument and dispose. Dispose of absorbed material in accordance with the regulations.

**6.4. Reference to other sections**

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**

Avoid dust formation. Keep away sources of ignition. Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid contact with skin, eyes and clothing. Smoking, eating and drinking should be prohibited in application area.

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

#### **Hints on storage assembly**

Do not store with acids. Do not store together with: bases, Do not store together with foodstuffs.

#### **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 containers tightly closed in a dry, cool and well-ventilated place.

## **SECTION 8: Exposure controls/personal protection**

### **8.1. Control parameters**

#### **Other information**

Contains no substances with occupational exposure limit values.

#### **Derived No/Minimal Effect Levels (DNEL/DMEL)**

##### **Magnesium hydroxide**

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Acute	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	16.67	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	34.78	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	34.78	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	

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Concentration 10 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

Duration of exposure Acute

Route of exposure dermal

Mode of action Systemic effects

Concentration 10 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

Duration of exposure Long term

Route of exposure oral

Mode of action Systemic effects

Concentration 10 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

Duration of exposure Acute

Route of exposure oral

Mode of action Systemic effects

Concentration 10 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group Worker

Duration of exposure Long term

Route of exposure inhalative

Mode of action Systemic effects

Concentration 117.54 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)

Reference group Worker

Duration of exposure Acute

Route of exposure inhalative

Mode of action Systemic effects

Concentration 117.54 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)

Reference group Worker

Duration of exposure Long term

Route of exposure dermal

Mode of action Systemic effects

Concentration 16.67 mg/kg

**Predicted No Effect Concentration (PNEC)**

**Magnesium hydroxide**

Type of value PNEC

Type Freshwater

Concentration 0.1 mg/l

Type of value PNEC

Type Sewage treatment plant (STP)

Concentration 1 mg/l

Type of value PNEC

Type Soil

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Concentration	0.01912	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	0.0082	mg/kg
Type of value	PNEC	
Type	Sediment	
Concentration	0.082	mg/kg
Type of value	PNEC	
Type	Water (intermittent release)	
Conditions	Intermittend	
Concentration	1	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0.01	mg/l

## 8.2. Exposure controls

### General protective and hygiene measures

At work do not eat, drink, smoke or take drugs. Hold eye wash fountain available. Hold emergency shower available.

### Respiratory protection

Dust mask; Particle filter P2

### Hand protection

Neoprene gloves

Gloves of nitrile rubber - NBR

Butyl rubber - Butyl

PVC gloves

Appropriate Material

The glove material must be sufficient impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location.

Hand protection must comply with EN 374.

### Eye protection

Safety glasses with side protection shield; Eye protection must comply with EN 166.

### Body protection

Clothing as usual in the chemical industry.

## SECTION 9: Physical and chemical properties

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

Physical state	Powder
Colour	white
Odour	odourless
Melting point	
Value	> 200 °C
Pressure	1013 hPa
Boiling point or initial boiling point and boiling range	
Value	> 300 °C
Flammability	

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Not ignitable

**Flash point**

Value	°C		
Remarks	Not applicable		

**Decomposition temperature**

Value	>	320	°C
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**pH value**

Value	8.3		
Concentration/H <sub>2</sub> O	10	g/l	

**Density and/or relative density**

Value	2.36	g/cm <sup>3</sup>	
Temperature	20	°C	
Value	2.41		
Temperature	20	°C	

**9.2. Other information****Solubility in water**

Value	1.78	mg/l
Temperature	20	°C
Remarks	insoluble	

**Explosive properties**

evaluation	no
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**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**

Possible incompatibility with materials listed under section 10.5.

**10.4. Conditions to avoid**

To avoid thermal decomposition, do not overheat. Avoid dust formation.

**10.5. Incompatible materials**

Exothermic reaction with acids. Reacts violently with water. Incompatible with: Strong oxidising agents, strong acids

**10.6. Hazardous decomposition products**

acids

**SECTION 11: Toxicological information \*\*\*****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity (Components)****Magnesium hydroxide**

Species	rat		
LD50	>	2000	mg/kg

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**Acute inhalative toxicity (Components)****Magnesium hydroxide**

Species	rat		
LC50	>	2.1	mg/l
Duration of exposure		4	h

**Skin corrosion/irritation (Components)****Magnesium hydroxide**

evaluation	irritant effect possible
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**Serious eye damage/irritation (Components)****Magnesium hydroxide**

evaluation	irritant effect possible
Remarks	Dust

**Sensitization (Components)****Magnesium hydroxide**

evaluation	No sensitisation effect known.
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**Mutagenicity (Components)****Magnesium hydroxide**

Remarks	negative
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**11.2 Information on other hazards****Endocrine disrupting properties with respect to humans**

This substance does not have endocrine disrupting properties with respect to humans.

**SECTION 12: Ecological information \*\*\*****12.1. Toxicity****Fish toxicity (Components)****Magnesium hydroxide**

LC50	>	10000	mg/l
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**Daphnia toxicity (Components)****Magnesium hydroxide**

Species	Daphnia magna		
EC50	>	10000	mg/l

**12.2. Persistence and degradability****Biodegradability (Components)****Magnesium hydroxide**

evaluation	not readily degradable
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**12.3. Bioaccumulative potential****General information**

The product has not been tested. Because of the product's consistency and lack of solubility in water bioavailability is not likely.

**12.4. Mobility in soil****General information**

No data available

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

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**Results of PBT and vPvB assessment \*\*\***

The Substance does not meet PBT-criteria.

This substance does not meet the vPvB-criteria.

**12.6 Endocrine disrupting properties****Endocrine disrupting properties with respect to the environment**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

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

In general not water hazardous. Do not allow it to reach ground water, water bodies or sewage system.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations for the product**

Disposal in compliance with local and national regulations.

**Disposal recommendations for packaging**

Disposal in compliance with local and national regulations.

**SECTION 14: Transport information**

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
<b>14.1. UN number</b>	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) Not water hazardous

Remarks

Derivation of WGK according to Annex 1 No. 5.2 AwSV

**15.2. Chemical safety assessment**

For this substance a chemical safety assessment is not required.

**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.