Safety Data Sheet



Vertex® 100

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 **COMMISSION REGULATION (EU) No. 2020/878**

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

1.1. Product identifier

Vertex® 100 **Product Name:**

Chemical Name Magnesium Hydroxide

Substance Pure substance/mixture

Chemical Name	CAS Number	EC No	EU REACH registration number	(CLP) Regulation (EC 1272/2008)	Weight-%
Magnesium Hydroxide	1309-42-8	215-170-3	01-2119488756-18- 0040	Not classified	100

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

Recommended Use Flame retardant

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Company: MARTINSWERK GmbH

> Kölner Strasse 110 50127 Bergheim

Germany: +49-2271-90.22.78 Fax.: +49-2271-90.27.17

www.hubermaterials.com Internet

E-mail hubermaterials@huber.com

1.4. Emergency telephone

number

CHEMTREC: +1 800 424 9300 or International +1 703 527 3887

Poison control center phone

number

National Anti-Poison Center UK: +44 844 892 0111 (National Poisons

Information Service)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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(CLP) Regulation (EC 1272/2008) Not classified

Hazards identification

Physical Hazard Not classified

Health Hazards Not classified

Environmental Hazard Not classified

2.2. Label elements

Symbols/Pictograms None

Signal Word None

Hazard Statements None

Precautionary Statements

Prevention Do not handle until all safety precautions have been read and understood

Employ good industrial hygiene practice

Do not breathe dust

Wear protective gloves/protective clothing/eye protection/face protection

Response IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing IF ON SKIN: Wash with plenty of soap and water

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for

breathing

If swallowed, rinse mouth with water (only if the person is conscious)

Drink plenty of water

Storage Keep in a dry place

Store away from incompatible materials

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

and regulations.

2.3. Other hazards No information available.

SECTION 3: Composition/information on ingredients

3.1. Substance Substance

Chemical Name	CAS Number	EC No	EU REACH registration number	(CLP) Regulation (EC 1272/2008)	Annex	Weight-%	
Magnesium Hydroxide	1309-42-8	215-170-3	01-2119488756-18 -0040	Not classified		100	

SECTION 4: First aid measures

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4.1. Description of first aid measures

General Advice Do not handle until all safety precautions have been read and understood. Employ

good industrial hygiene practice. Wear suitable protective clothing, gloves and eye/face protection. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. When in doubt or if

symptoms are observed, get medical advice.

Eye Contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

Skin Contact Wash with plenty of soap and water.

Inhalation Do not breathe dust. IF INHALED: Remove to fresh air and keep at rest in a

position comfortable for breathing.

Ingestion Rinse mouth thoroughly with water.

Aspiration hazard Not an expected route of exposure.

Notes to Physician Treat symptomatically.

4.2. Most important symptoms

and effects, both acute and

delayed

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can

cause mechanical irritation or drying of the skin.

4.3. Indication of any immediate medical attention and special

treatment needed

4.3. Indication of any immediate Treat symptomatically. Ensure that medical personnel are aware of the material(s)

involved, take precautions to protect themselves and prevent spread of

contamination.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing

Media

Use extinguishing agent suitable for type of surrounding fire. Water spray (fog). Dry chemical. Foam. Carbon dioxide (CO2).

Unsuitable Extinguishing Media

None known.

5.2. Special hazards arising from the substance or mixture

Non-combustible.

5.3. Advice for firefighters

Special protective

equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

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Fire-fighting measures

Water mist may be used to cool closed containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Ensure adequate ventilation. Use personal protection

recommended in Section 8. Keep unauthorized personnel away.

For non-emergency personnel Keep unauthorized personnel away.

For emergency responders Keep unauthorized personnel away. Use personal protection recommended in

Section 8.

6.2. Environmental precautions Avoid runoff to waterways and sewers.

6.3. Methods and material for containment and cleaning up Large Spill: Do not dry sweep dust. Wet dust with water before sweeping or use a

vacuum to collect dust Small Spill: Vacuum or sweep material and place in a

disposal container

6.4. Reference to other sections Section 8: Exposure controls and personal protection. See Section 13 for

additional waste treatment information.

SECTION 7: Handling and storage

7.1. Precautions for safe

handling

Avoid exposure - obtain special instructions before use

Do not handle until all safety precautions have been read and understood.

Minimize dust generation and accumulation

Ensure adequate ventilation

Handle in accordance with good industrial hygiene and safety practice

Use personal protective equipment as required

7.2. Conditions for safe storage, Keep container tightly closed and dry including any incompatibilities Store away from incompatible materials

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Magnesium Hydroxide

OSHA

TLV-TWA: 8-hr: 10 mg/m³ (total dust) **ACGIH**

> 3 mg/m³ (respirable fraction) TWA: 15 mg/m³ total dust

5 mg/m³ respirable

TWA: 15 mg/m³ (total dust) NIOSH

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Recommended monitoring

procedures

Refer also to national guidance documents for information on currently

recommended monitoring procedures

Biological Limit Values None

DNEL (Derived No Effect Level) No information available

PNEC (Predicted No Effect Concentration) No information available

8.2. Exposure controls

Engineering Measures Do not handle until all safety precautions have been read and understood

Ensure adequate ventilation, especially in confined areas

Provide a good standard of controlled ventilation (10 to 15 air changes per hour) Use exhaust ventilation to keep airborne concentrations below exposure limits

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment

Eye/Face Protection Wear safety glasses with side shields (or goggles).

Skin and Body Protection Wear suitable protective clothing.

Thermal hazards None known.

Hygiene Measures No information available

Environmental Exposure

Controls

Dispose of in accordance with local regulations

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:

Physical State Solid Powder Color White Odor Odorless

Odor Threshold No information available

pH: 8.4-10.2 (5% water suspension)

Freezing Point

Flash Point

Evaporation Rate

Flammability (solid, gas)

Not applicable

Not applicable.

Not applicable

Upper flammability limit:

Lower flammability limit:

Vapor Density Not applicable Density 2.4 g/cm3, 20°C

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Relative Density
Water Solubility
Solubility in other solvents
Partition coefficient
No data available
No information available
No data available
No data available

Partition coefficient
Autoignition Temperature
Decomposition Temperature
No data available
Not applicable
626 °F (330° C)

SECTION 10: Stability and reactivity

10.1. Reactivity Stable under normal conditions

10.2. Chemical stability Stable under normal conditions

10.3. Possibility of hazardous

reactions

No specific hazard known

10.4. Conditions to avoid Incompatible materials Dust formation

10.5. Incompatible materials None known

10.6. Hazardous decomposition None known

products

General InformationUsers are advised to consider national Occupational Exposure Limits or other

SECTION 11: Toxicological information

equivalent values.

Information on Likely Routes of Exposure

Inhalation Avoid inhalation of the product

May cause irritation of respiratory tract

Skin Prolonged or repeated contact may dry skin and cause irritation

Eyes Dust contact with the eyes can lead to mechanical irritation

Ingestion Ingestion is not a likely route of exposure

Aspiration hazard Not an expected route of exposure.

11.1. Information on toxicological effects

Magnesium Hydroxide

Oral LD50 8500 mg/kg Rat

Acute Toxicity Based on available data, the classification criteria are not met

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Chronic Toxicity Based on available data, the classification criteria are not met.

Respiratory Sensitization Based on available data, the classification criteria are not met

Serious eye damage/eye

irritation

Based on available data, the classification criteria are not met

Reproductive Effects Based on available data, the classification criteria are not met.

Carcinogenicity Not listed as a carcinogen.

Specific target organ toxicity -

Single exposure

No information available.

Specific target organ toxicity -

Repeated exposure

No information available.

SECTION 12: Ecological information

12.1. Ecotoxicity Not considered to be harmful to aquatic life.

Magnesium Hydroxide

WGK Classification (AwSV) 5209 WGK: nwg

12.2. Persistence and

degradability

No data available.

12.3. Bioaccumulative potential No data available.

Partition coefficient No data available

Bioconcentration factor

(BCF)

No data available.

12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB

assessment

No data available.

12.6. Other adverse effects No information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

and regulations.

Contaminated Packaging Product residue may remain in empty containers. Empty containers should be

taken to an approved waste handling site for recycling or disposal.

Waste codes Waste codes should be assigned by the user based on the application for which

the product was used

Magnesium Hydroxide

European Waste Catalog 060299

WGK Classification (AwSV) 5209 WGK: nwg

SECTION 14: Transport information

Mode of Transportation (Road, Water, Air, Rail)

TDG -Canada Not regulated DOT Not regulated **ADR** Not regulated Not regulated RID ADN Not regulated Not regulated **IATA** Not regulated IMDG/IMO Not regulated **ICAO**

14.1. UN number None

14.2. UN proper shipping name None

14.3. Transport hazard class(es) None

14.4. Packing group None

14.5. Environmental hazards No

14.6. Special precautions for Not applicable

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

Global Inventories

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Pure substance/mixture Substance

Chemical Name	CAS Number	EC No	Australia (AIIC)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	Thailand (TECI)		Philippine s (PICCS)	Taiwan	TSCA: United States
Magnesium Hydroxide	1309-42-8	215-170-3	Y	Υ	Y	(1)-386 (ENCS) (ISHL)	KE-22716	Y	55-1-0134 3	Y	Y	Υ	Α

Legend X / Y: Complies; A: Active; - / N: Exempt / Not Listed

REACH No.

Magnesium Hydroxide

EU REACH registration number 01-2119488756-18-0040 **Turkish KKDIK pre-registration** 05-0000192735-90-0000

Germany

Not considered to be harmful to aquatic life

Magnesium Hydroxide

WGK Classification (AwSV) 5209 WGK: nwg

15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance

SECTION 16: Other information

Reason for Revision This safety data sheet complies with the requirements of Regulation (EC) No.

1907/2006 & COMMISSION REGULATION (EU) No. 2020/878

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(CLP) Regulation (EC 1272/2008) Not classified

Labeling

Symbols/Pictograms None

Signal Word None

Hazard Statements None.

Training Advice Do not handle until all safety precautions have been read and understood.

Abbreviations and acronyms IARC (International Agency for Research on Cancer)

IUCLID (International Uniform Chemical Information Database)

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WHMIS (Workplace Hazardous Materials Information System)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

TWA (Time-Weighted Average)

CLP (The Classification, Labeling and Packaging of Substances and Mixtures Regulation (EC 1272/2008))

PPE (Personal Protection Equipment)

NIOSH (National Institute for Occupational Safety and Health)

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act)

RQ (Reportable Quantity) (RQ/% in mixture)

STEL (Short Term Exposure Limit)

TLV® (Threshold Limit Value)

DNEL (Derived No Effect Level)

SVHC (Substances of Very High Concern)

BOD (Biochemical oxygen demand)

COD (Chemical oxygen demand)

ICAO (International Civil Aviation Organization)
IMDG (International Maritime Dangerous Goods)

ADR (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

RID (Agreement Concerning the International Carriage of Dangerous Goods by Rail)

IATA (International Air Transport Association)

IMDG (International Maritime Dangerous Goods)

DOT (Department of Transportation)

TDG (Transport of Dangerous Goods) Canada

PNEC (Predicted No Effect Concentration)

SCBA (Self-Contained Breathing Apparatus) Positive Pressure

GHS (Globally Harmonized System)

TSCA (Toxic Substances Control Act)

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