



Vertex® 100

GHS (Globally Harmonized System)

Issue Date 15/Nov/2022 Revision Number 1.4.1

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

1.1. Product identifier

Product Name: Vertex® 100

Chemical Name Magnesium Hydroxide

Pure substance/mixture Substance

Chemical Name	CAS Number	EU REACH registration number	TSCA: United States	GHS Classification	Weight-%	
Magnesium Hydroxide	1309-42-8	01-2119488756-18- 0040	A	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: J.M. Huber Corporation

3100 Cumberland Boulevard, Suite 600

Atlanta, GA 30339 USA Tel: +1 678 247-7300

Internet www.hubermaterials.com

E-mail huber.europe@huber.com

1.4. Emergency telephone

number

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS Classification This product is not classified as hazardous according to the UN GHS guideline

and labeling is not required

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Hazards identification

Not classified. **Physical Hazard**

Health Hazards Not classified

Environmental Hazard Not classified.

2.2. Label elements

Symbols/Pictograms None

Signal Word None

Precautionary Statements

Prevention Employ good industrial hygiene practice

Do not breathe dust

Response IF ON SKIN: Wash with plenty of soap and water

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

lenses, if present and easy to do. Continue rinsing

Keep in a dry place. Storage

Disposal Dispose of contents/containers in accordance with local regulations. See Section

13: DISPOSAL CONSIDERATIONS.

2.3. Other hazards No information available.

SECTION 3: Composition/information on ingredients

Pure substance/mixture Substance

Chemical Name	CAS Number	EU REACH registration number	GHS Classification	Weight-%	
Magnesium Hydroxide	1309-42-8	01-2119488756-18-0040	Not classified.	100	

SECTION 4: First aid measures

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.

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

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

Skin Contact Wash with plenty of soap and water.

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

position comfortable for breathing.

Rinse mouth thoroughly with water. Ingestion

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.

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.

Fire-fighting measures

Water mist may be used to cool closed containers.

SECTION 6: Accidental release measures

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6.1. Personal precautions, protective equipment and emergency procedures

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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

Exposure Limits Provide adequate ventilation as well as local exhaustion at critical locations

Magnesium Hydroxide

OSHA

Australia

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

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

5 mg/m³ respirable Not established TWA: Not established STEL: Not established

ChinaTWA: Not establishedChinaSTEL: Not establishedIndiaTWA: Not establishedKoreaTWA: Not establishedKoreaSTEL: Not established

Mexico TWA/OEL (VLE-PPT): Not established

New ZealandNot establishedTaiwanOEL: Not established

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

Ensure adequate ventilation, especially in confined areas

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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 goggles with side protection

Skin and Body Protection Wear suitable protective clothing

Hand Protection Protective gloves

Respiratory Protection When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

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

Non-combustible

Not applicable.

Not applicable

Upper flammability limit:

Lower flammability limit:

Vapor DensityNot applicableDensity2.4 g/cm3, 20°CRelative DensityNo data availableWater Solubility11.7 mg/l , 25° C

Solubility in other solvents
Partition coefficient
No information available
No data available

Autoignition Temperature Decomposition TemperatureNot applicable
626 °F (330° C)

SECTION 10: Stability and reactivity

10.1. Reactivity Stable under normal conditions

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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

SECTION 11: Toxicological information

General Information Users are advised to consider national Occupational Exposure Limits or other

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

Dust contact with the eyes can lead to mechanical irritation **Eyes**

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

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

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

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

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

Carcinogenicity Not listed as a carcinogen.

Specific target organ toxicity -No information available.

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Single exposure

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.

No data available. 12.4. Mobility in soil

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

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

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

the product was used

Magnesium Hydroxide

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060299 **European Waste Catalog**

WGK Classification (AwSV) 5209 WGK: nwg

SECTION 14: Transport information

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

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

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

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)		TSCA: United States
Magnesium Hydroxide	1309-42-8	215-170-3	Υ	Υ	Υ	(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

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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

Prepared by CP Kelco Global Regulatory Affairs

Email: Regulatory.Affairs@cpkelco.com.

GHS Classification This product is not classified as hazardous according to the UN GHS guideline

and labeling is not required

Symbols/Pictograms None

Signal Word None

Hazard Statements None

Hazards identification

Not classified **Physical Hazard**

Health Hazards Not classified

Environmental Hazard Not classified

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

IATA (International Air Transport Association) IMDG (International Maritime Dangerous Goods)

IUCLID (International Uniform Chemical Information Database) WHMIS (Workplace Hazardous Materials Information System)

DOT (Department of Transportation)

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)

TDG (Transport of Dangerous Goods) Canada

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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)

SCBA (Self-Contained Breathing Apparatus) Positive Pressure

GHS (Globally Harmonized System)
SARA (Superfund Amendments and Reauthorization Act of 1986)

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