

#### Vertex® 100

#### GHS (Globally Harmonized System)

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

#### 1.1. Product identifier

Product Name:	Vertex® 100
Pure substance/mixture	Substance
<u>Magnesium Hydroxide</u> CAS Number Weight-%	1309-42-8 100

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

#### 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
Internet	www.hubermaterials.com
E-mail	hubermaterials@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	Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)
Hazards identification	
Physical Hazard	Not classified

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Health Hazards	Not classified
Environmental Hazard	Not classified
2.2. Label elements	
Symbols/Pictograms	None
Signal Word	None
Hazard Statements	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
Storage	Keep in a dry place.
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	TSCA: United States	EC No	EU REACH registratio n number	GHS Classificatio n	Weight-%
Magnesium Hydroxide	1309-42-8	A		01-211948 8756-18-0 040.	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.

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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.
Ingestion	Rinse mouth thoroughly with water.
Inhalation	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
Aspiration hazard	Not an expected route of exposure.
4.2. Most important symptoms and effects, both acute and delayed	Inhalation of dust may cause irritation of the respiratory system. Eye irritation.
4.3. Indication of any immediate medical attention and special treatment needed	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	Do not use water jetstream.	
5.2. Special hazards arising fro the substance or mixture	<b>m</b> Avoid dust formation. Do not breathe dust.	
5.3. Advice for firefighters		
Special protective equipment for firefighters	Wear a self-contained breathing apparatus and chemical protective clothing.	

**Fire-fighting measures** Standard procedure for chemical fires.

# **SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures Keep unauthorized personnel away. Use personal protection recommended in Section 8.

For non-emergency personnel Keep unauthorized personnel away.

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For emergency responders	Keep unauthorized personnel away. Use personal protection recommended in Section 8.
6.2. Environmental precautions	Avoid runoff to waterways and sewers. Dispose of in accordance with federal, state and local regulations.
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	Minimize dust generation and accumulation. Ensure adequate ventilation. Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety practice.
7.2. Conditions for safe storage, including any incompatibilities	Keep container tightly closed and dry. Store away from incompatible materials. See section 10.

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

#### 8.1. Control parameters

#### **Occupational exposure limits**

Magnesium Hydroxide India ACGIH OSHA	TWA: Not established TLV-TWA: 8-hr : 10 mg/m <sup>3</sup> (total dust) 3 mg/m <sup>3</sup> (respirable fraction) TWA: 15 mg/m <sup>3</sup> total dust 5 mg/m <sup>3</sup> respirable
<b>Biological Limit Values</b>	None
Recommended monitoring procedures	Refer also to national guidance documents for information on currently recommended monitoring procedures
DNEL (Derived No Effect Level)	No information available
PNEC (Predicted No Effect Concentration)	No information available

8.2. Exposure controls

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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.
Hand Protection	Wear suitable gloves.
<b>Respiratory Protection</b>	In case of inadequate ventilation wear respiratory protection.
Thermal hazards	Wear suitable protective clothing.
Hygiene Measures	No information available.

# **SECTION 9: Physical and chemical properties**

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

Physical State	Solid. Powder.
Color	White
Odor	Odorless
Odor Threshold	No information available
pH:	8.4-10.2 (5% water suspension)
Melting Point / Melting Range	Not applicable
Boiling Point	Not applicable
Freezing Point	Not applicable
Flash Point	Non-combustible
Evaporation Rate	Not applicable
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Density	2.4 g/cm3, 20°C
Solubility in other solvents Water Solubility	No information available 11.7 mg/l , 25° C
Partition coefficient	No data available

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Autoignition Temperature	Not applicable
Oxidizing Properties	Not applicable
Decomposition Temperature	626 °F (330° C)

# **SECTION 10: Stability and reactivity**

10.1. Reactivity	None
10.2. Chemical stability	Stable under normal conditions
10.3. Possibility of hazardous reactions	No specific hazard known
10.4. Conditions to avoid	Keep away from heat, sparks and flame.
10.5. Incompatible materials	Strong oxidizing agents.
10.6. Hazardous decomposition products	None known

# **SECTION 11: Toxicological information**

General Information	Users are advised to consider national Occupational Exposure Limits or othe 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				
<u>Magnesium Hydroxide</u> Oral LD50	8500 mg/kg Rat			
Acute Toxicity	Based on available data, the classification criteria are not met			
Chronic Toxicity	Based on available data, the classification criteria are not met.			

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<b>Respiratory Sensitization</b>	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 - 1309-42-8 WGK Classification (AwSV) 5209 WGK: nwg

12.2. Persistence and degradability	Readily biodegradable.
12.3. Bioaccumulative potential	No data available.
Partition coefficient	No data available.
Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	This substance does not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects None known

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Contaminated Packaging	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

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the product was used

**Disposal Methods** 

Dispose of waste product or used containers according to local regulations

#### Magnesium Hydroxide - 1309-42-8

European Waste Catalog 060299

### **SECTION 14: Transport information**

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

DOT	Not regulated
ADR	Not regulated
RID	Not regulated
ADN	Not regulated
ΙΑΤΑ	Not regulated
IMDG/IMO	Not regulated
ICAO	Not regulated
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 user	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**

Chemical Name	CAS Number	EC No	EU REACH registration number	Australia (AIIC)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	Zealand	Philippin es (PICCS)		TSCA: United States
Magnesium Hydroxide	1309-42-8	215-170-3	01-211948875 6-18-0040	Y	Y	Y	(1)-386 (ENCS) (ISHL)	KE-22716	Y	Y	Y	Y	A

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

# **SECTION 16: Other information**

Prepared by	Huber Engineered Materials Global Regulatory Affairs email: regulatory.affairs@huber.com
Reason for Revision	GHS (Globally Harmonized System).
GHS Classification	This product is not classified as hazardous according to the UN GHS guideline and labeling is not required
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) 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 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 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 Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement Concerning the Interna
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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