



HUBER ENGINEERED MATERIALS

# Safety Data Sheet

## Vertex® 100SA

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

Issue Date 15/Mar/2023

Print Date 15/Mar/2023

Revision Number 1.3.1

Page 1 of 11

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

### 1.1. Product identifier

**Product Name:** Vertex® 100SA

**Chemical Name** 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	-
Surface Treatment	Proprietary	*	--	Acute Tox. 4 H302 C R22 R34 S1/2 S26 S36/37/39 S45	<1

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

**Recommended Use** Smoke suppressant Flame retardant

**Uses advised against** None known.

### 1.3. Details of the supplier of the safety data sheet

**Manufacturer** J.M. Huber Corporation  
3100 Cumberland Boulevard, Suite 600  
Atlanta, GA 30339 USA  
Tel: +1 678 247-7300

**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

**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

Issue Date 15/Mar/2023

Print Date 15/Mar/2023

Revision Number 1.3.1

Page 2 of 11

(CLP) Regulation (EC 1272/2008) This substance is not classified as dangerous according to regulation (EC) 1272/2008 [GHS]

**Hazards identification**

<b>Physical Hazard</b>	Not classified
<b>Health Hazards</b>	Not classified
<b>Environmental Hazard</b>	Not classified

**2.2. Label elements**

<b>Symbols/Pictograms</b>	None
<b>Signal Word</b>	None
<b>Hazard Statements</b>	None

**Precautionary Statements**

<b>Prevention</b>	Employ good industrial hygiene practice Wash hands thoroughly after handling
<b>Response</b>	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
<b>Storage</b>	Keep in a dry place Store away from incompatible materials
<b>Disposal</b>	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

**3.2. Mixture**

Mixture

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	--	-
Surface Treatment	Proprietary	*	--	Acute Tox. 4 H302 C R22 R34 S1/2 S26 S36/37/39 S45	--	<1

## SECTION 4: First aid measures

**4.1. Description of first aid measures**

Issue Date 15/Mar/2023

Print Date 15/Mar/2023

Revision Number 1.3.1

Page 3 of 11

<b>General Advice</b>	When in doubt or if symptoms are observed, get medical advice. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
<b>Eye Contact</b>	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
<b>Skin Contact</b>	Wash with plenty of soap and water.
<b>Inhalation</b>	Do not breathe dust. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
<b>Ingestion</b>	Rinse mouth thoroughly with water.
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.
<b>Notes to Physician</b>	Treat symptomatically.
<b>Personal Protective Equipment For First Aid Responders</b>	Wear suitable protective clothing.
<b>4.2. Most important symptoms and effects, both acute and delayed</b>	Eye irritation.
<b>4.3. Indication of any immediate medical attention and special treatment needed</b>	Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### **Suitable Extinguishing Media**

Water spray (fog). Foam. Dry chemical. Carbon dioxide (CO<sub>2</sub>). Use extinguishing agent suitable for type of surrounding fire.

#### **Unsuitable Extinguishing Media**

None known.

### 5.2. Special hazards arising from the substance or mixture

Non-combustible. Substance does not burn.

### 5.3. Advice for firefighters

#### **Special protective equipment for firefighters**

Wear self-contained breathing apparatus and protective suit.

#### **Fire-fighting measures**

Issue Date 15/Mar/2023  
 Print Date 15/Mar/2023

Revision Number 1.3.1  
 Page 4 of 11

Water mist may be used to cool closed containers.

## SECTION 6: Accidental release measures

- |   |   |
|---|---|
| <b>6.1. Personal precautions, protective equipment and emergency procedures</b> | Keep unauthorized personnel away. Use personal protection recommended in Section 8. Avoid dust formation. Ensure adequate ventilation.  |
| <b>For non-emergency personnel</b>  | Keep unauthorized personnel away. Wear suitable protective clothing and gloves.   |
| <b>For emergency responders</b>   | Keep unauthorized personnel away.   |
| <b>6.2. Environmental precautions</b>   | Avoid runoff to waterways and sewers.   |
| <b>6.3. Methods and material for containment and cleaning up</b>                | 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 |
| <b>6.4. Reference to other sections</b>   | Section 8: Exposure controls and personal protection. See Section 13 for additional waste treatment information.  |

## SECTION 7: Handling and storage

- |  |   |
|--|---|
| <b>7.1. Precautions for safe handling</b>                                | Minimize dust generation and accumulation<br>Provide local exhaust ventilation<br>Handle in accordance with good industrial hygiene and safety practice |
| <b>7.2. Conditions for safe storage, including any incompatibilities</b> | Store away from incompatible materials<br>Keep container tightly closed and dry   |
| <b>7.3. Specific end use(s)</b>  | Flame retardant. Smoke suppressant.   |

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

#### Magnesium Hydroxide

<b>ACGIH</b>	TLV-TWA: 8-hr : 10 mg/m <sup>3</sup> (total dust) 3 mg/m <sup>3</sup> (respirable fraction)
<b>OSHA</b>	TWA: 15 mg/m <sup>3</sup> total dust 5 mg/m <sup>3</sup> respirable
<b>NIOSH</b>	TWA: 15 mg/m <sup>3</sup> (total dust)

<b>Recommended monitoring procedures</b>	Refer also to national guidance documents for information on currently recommended monitoring procedures
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Issue Date 15/Mar/2023

Print Date 15/Mar/2023

Revision Number 1.3.1

Page 5 of 11

**Biological Limit Values** None**DNEL (Derived No Effect Level)** Consumer - oral, long-term - local and systemic 4.74 mg/kg bw/day Worker - inhalative, long-term - local and systemic 10.74 mg/m<sup>3</sup>**PNEC (Predicted No Effect Concentration)** No information available**8.2. Exposure controls****Engineering Measures** Ensure adequate ventilation, especially in confined areas  
Provide a good standard of controlled ventilation (10 to 15 air changes per hour)**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.**Respiratory Protection** In case of inadequate ventilation wear respiratory protection.**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:**

<b>Physical State</b>	Solid Powder
<b>Color</b>	White
<b>Odor</b>	Odorless
<b>Odor Threshold</b>	No information available
<b>pH:</b>	8.4-10.2 (5% water suspension)
<b>Melting Point / Melting Range</b>	No information available
<b>Melting point / Freezing point</b>	Not applicable
<b>Initial boiling point</b>	No information available
<b>Freezing Point</b>	Not applicable
<b>Flash Point</b>	Non-combustible
<b>Evaporation Rate</b>	Not applicable.
<b>Flammability (solid, gas)</b>	Not applicable
<b>Upper flammability limit:</b>	--
<b>Lower flammability limit:</b>	--
<b>Vapor Pressure</b>	Not applicable

Issue Date 15/Mar/2023

Print Date 15/Mar/2023

Revision Number 1.3.1

Page 6 of 11

Vapor Density	Not applicable
Vapor Density	Not applicable
Density	2.4 g/cm <sup>3</sup> , 20°C
Relative Density	
Water Solubility	11.7 mg/l , 25° C
Partition coefficient	Not applicable
Autoignition Temperature	Not applicable
Decomposition Temperature	626 °F (330° C)
Viscosity	No information available.
Kinematic viscosity	Not applicable
Oxidizing Properties	Not oxidizing
Particle Size	No information available
VOC Content (%)	Not applicable

**9.2. Other information****9.2.1. Information with regard to physical hazard classes**

Not applicable

**9.2.2. Other safety characteristics**

Not applicable

**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	None known
10.5. Incompatible materials	None known
10.6. Hazardous decomposition products	None known

**SECTION 11: Toxicological information**

**General Information** Users are advised to consider national Occupational Exposure Limits or other equivalent values.

**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Magnesium Hydroxide**

Oral LD50 8500 mg/kg Rat

Issue Date 15/Mar/2023

Print Date 15/Mar/2023

Revision Number 1.3.1

Page 7 of 11

<b>Respiratory Sensitization</b>	Based on available data, the classification criteria are not met
<b>Serious eye damage/eye irritation</b>	Based on available data, the classification criteria are not met
<b>Skin Corrosion/Irritation</b>	Based on available data, the classification criteria are not met
<b>Skin Sensitization</b>	Based on available data, the classification criteria are not met
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Reproductive Toxicity</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity - Single exposure</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity - Repeated exposure</b>	Based on available data, the classification criteria are not met.

**Mixture versus substance information** No information available

#### Information on Likely Routes of Exposure

<b>Inhalation</b>	Inhalation of dust may cause irritation of the respiratory system
<b>Ingestion</b>	Gastrointestinal discomfort
<b>Skin</b>	Prolonged exposure may cause skin irritation
<b>Eyes</b>	May cause irritation.
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.

#### 11.2. Information on other hazards

**11.2.1. Endocrine disrupting properties** This product does not contain any known or suspected endocrine disruptors

**11.2.2. Other information** Not applicable

## SECTION 12: Ecological information

**12.1. Toxicity** Not considered to be harmful to aquatic life

#### Magnesium Hydroxide

**WGK Classification (AwSV)** 5209 WGK: nwg

Issue Date 15/Mar/2023

Print Date 15/Mar/2023

Revision Number 1.3.1

Page 8 of 11

<b>12.2. Persistence and degradability</b>	No data available.
<b>12.3. Bioaccumulative potential</b>	No data available.
<b>Partition coefficient</b>	Not applicable
<b>Bioconcentration factor (BCF)</b>	Not available.
<b>12.4. Mobility in soil</b>	No data available.
<b>12.5. Results of PBT and vPvB assessment</b>	Not available.
<b>12.6. Endocrine disrupting properties</b>	This product does not contain any known or suspected endocrine disruptors

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

<b>Disposal Methods</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>Contaminated Packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal.
<b>Waste codes</b>	Waste codes should be assigned by the user based on the application for which the product was used

### Magnesium Hydroxide

<b>European Waste Catalog</b>	060299
<b>WGK Classification (AwSV)</b>	5209 WGK: nwg

## SECTION 14: Transport information

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

<b>TDG -Canada</b>	Not regulated
<b>DOT</b>	Not regulated
<b>ADR</b>	Not regulated
<b>RID</b>	Not regulated
<b>ADN</b>	Not regulated
<b>IATA</b>	Not regulated
<b>IMDG/IMO</b>	Not regulated
<b>ICAO</b>	Not regulated



HUBER

# Safety Data Sheet

Vertex® 100SA

Issue Date 15/Mar/2023  
Print Date 15/Mar/2023

Revision Number 1.3.1  
Page 9 of 11

- 14.1. UN number or ID 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. Maritime transport in bulk according to IMO instruments  
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	Australia (AIIIC)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	Thailand (TECI)	New Zealand	Philippines (PICCS)	Taiwan	TSCA: United States
Magnesium Hydroxide	1309-42-8	215-170-3	Y	Y	Y	(1)-386 (ENCS) (ISHL)	KE-22716	Y	55-1-01343	Y	Y	Y	A
Surface Treatment	Proprietary	*	Y	Y	Y	Y	Y	Y	55-1-06797 55-1-06841	Y	Y	Y	A

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

##### Surface Treatment

EU REACH registration number --

Turkish KKDIK pre-registration 05-0000192694-08-0000

#### Germany

Not classified Avoid release to the environment

##### 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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**Prepared by** Huber Engineered Materials Global Regulatory Affairs  
email: regulatory.affairs@huber.com.

**(CLP) Regulation (EC 1272/2008)** This substance is not classified as dangerous according to regulation (EC) 1272/2008 [GHS]

### 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)  
IUCRID (International Uniform Chemical Information Database)  
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

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## Safety Data Sheet

Vertex® 100SA

**Issue Date** 15/Mar/2023

**Print Date** 15/Mar/2023

**Revision Number** 1.3.1

**Page 11 of 11**

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**