

### Vertex® 100 ST1

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03 Canadian Workplace Hazardous Material Information System (WHMIS) 2015 Mexico NOM-018-STPS-2000; NOM-018-STPS-2015 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 ST1

#### 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

Company:	J.M. Huber Corporation 3100 Cumberland Boulevard, Suite 600 Atlanta, GA 30339 USA Tel: +1 678 247-7300
Internet	www.huberadvancedmaterials.com
Contact E-Mail	www.huberadvancedmaterials.com/contact
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

Physical Hazards	Not classified.
Health Hazards	Not classified.
Environmental Hazard	Not classified.
2.2. Label elements	
Symbols/Pictograms	None
Signal Word	None

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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
Storage	Store away from incompatible materials Keep in a dry place
Disposal	Disposal should be in accordance with applicable regional, national and local laws and regulations
Hazards not otherwise classifie	d None known.

(HNOC)

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

Chemical Name	CAS Number	Weight-%
Magnesium Hydroxide	1309-42-8	-
Surface Treatment	57-11-4	-

# **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.
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	Do not breathe dust. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

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Aspiration hazard	Not an expected route of exposure.
4.2. Most important symptoms and effects, both acute and delayed	May cause irritation to mucous membranes and respiratory tract. Contact with dust can cause mechanical irritation or drying of the skin.
4.3. Indication of any immediate medical attention and special treatment needed	Treatment should be symptomatic and supportive. 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 Water spray (fog). Dry chemical. Foam. Carbon dioxide (CO2).

Unsuitable Extinguishing Media None known.

**5.2. Special hazards arising from the substance or mixture** None known.

#### 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. No special fire protection measures are necessary. Standard procedure for chemical fires.

### **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.

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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. Do not breathe dust. Ensure adequate ventilation. Wear appropriate personal protective clothing to prevent skin contact. 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.

**7.3. Specific end use(s)** See Section 1.2.

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

### 8.1. Control parameters

#### **Occupational exposure limits**

#### Magnesium Hydroxide

OSHA	TWA: 15 mg/m <sup>3</sup> total dust
ACGIH	5 mg/m <sup>3</sup> respirable TLV-TWA: 8-hr : 10 mg/m <sup>3</sup> (total dust) 3 mg/m <sup>3</sup> (respirable fraction)
NIOSH	TWA 15 mg/m <sup>3</sup> (total dust)
Canada	Not established
Surface Treatment	
Canada	10 mg/m <sup>3</sup>
Canada - Ontario - OEL - TWA EVs	10 mg/m <sup>3</sup>
	3 mg/m <sup>3</sup>
PNEC (Predicted No Effect Concentration)	No information available
DNEL (Derived No Effect Level)	No information available
<b>Biological Limit Values</b>	No information available

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8.2. Exposure controls

Engineering Measures	Provide a good standard of controlled ventilation (5 to 10 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 Skin and Body Protection Hand Protection	Wear safety glasses with side shields (or goggles). Wear suitable protective clothing. For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.
Respiratory Protection Thermal hazards	In case of inadequate ventilation wear respiratory protection. None known. Wear suitable protective clothing.
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

5.1. Information on basic physic	sar and enernical properties
Appearance:	
Physical State	Solid Powder
Color	White
Odor	Odorless
Odor Threshold	No information available
pH:	8.4-10.2 (5% water suspension)
Melting point / Freezing point	Not applicable
Freezing Point	Not applicable
Flash Point	Non-combustible
Evaporation Rate	Not determined.
Flammability (solid, gas)	Not applicable
Upper flammability limit:	
Lower flammability limit:	
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Density	No data available
Relative Density	No data available
Water Solubility	Insoluble
Solubility in other solvents	No data available
Partition coefficient	No data available
Autoignition Temperature	Not applicable
Decomposition Temperature	Not applicable
Viscosity	No information available.
Kinematic viscosity	Not applicable
Oxidizing Properties	Not applicable
Particle Size	No information available
VOC Content (%)	Not applicable

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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	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 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 toxicologic	al effects
Magnesium Hydroxide LD50s and LC50s Oral LD50 <u>Surface Treatment</u> Oral LD50	2.1 mg/L Inhalation LC50 Rat 4 h 8500 mg/kg Rat 4600 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.
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.
Skin Sensitization	Based on available data, the classification criteria are not met.

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Carcinogenicity	Based on available data, the classification criteria are not met.
Target Organ Effects	Based on available data, the classification criteria are not met.
Information on Likely Routes of	Exposure
Inhalation	Avoid inhalation of the product
Ingestion	Ingestion is not a likely route of exposure
Skin	Prolonged or repeated contact may dry skin and cause irritation
Eyes	Dust contact with the eyes can lead to mechanical irritation
Aspiration hazard	Not an expected route of exposure.

### 11.2. Information on other hazards

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

**11.2.2. Other information** Not applicable

# **SECTION 12: Ecological information**

12.1. Toxicity	Not considered to be harmful to aquatic life

<u>Magnesium Hydroxide</u> WGK Classification (AwSV) <u>Surface Treatment</u> WGK Classification (AwSV)	5209 WGK: nwg 661: 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. Endocrine disrupting	This product does not contain any known or suspected endocrine disruptors

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### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Disposal Methods	Disposal 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
<u>Magnesium Hydroxide</u> European Waste Catalog WGK Classification (AwSV) <u>Surface Treatment</u> WGK Classification (AwSV)	060299 5209 WGK: nwg 661: WGK: nwg

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

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

TDG -Canada	Not regulated
DOT	Not regulated
ADR	Not regulated
ADN	Not regulated
ΙΑΤΑ	Not regulated
IMDG/IMO	Not regulated
ICAO	Not regulated

- 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

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**14.7. Maritime transport in bulk according to IMO instruments** Not applicable

### **SECTION 15: Regulatory information**

#### **Global Inventories**

Chemical Name	CAS Number	EC No	EU REACH registrati on number	Australia (AIIC)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico		Philippine s (PICCS)	Taiwan	TSCA: United States
Magnesium Hydroxide	1309-42-8		01-211948 8756-18-0 040		Y	Y	(1)-386 (ENCS) (ISHL)	KE-22716	Y	Y	Y	Y	A
Surface Treatment	57-11-4	-		Y	Y	Y	(2)-609 (2)-608 (ENCS)(ISH L)	KE-26333	Y	Y	Y	Y	A

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

#### **US Federal Regulations**

<u>EPA</u>

CWA (Clean Water Act) Not regulated

### CAA (Clean Air Act)

Not regulated

#### U.S. State Right-to-Know Regulations

Chemical Name	CAS Number	California Proposition 65	Massachusetts	Minnesota	New Jersey	Pennsylvania
Magnesium Hydroxide	1309-42-8	N	N	N	N	N
Surface Treatment	57-11-4	No	No	No	No	No

Y: Listed ; N: Not Listed

#### CANADA

#### WHMIS

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR

#### Surface Treatment

Combustible Dust

### **SECTION 16: Other information**

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Revision Number	1.3.1
Reason for Version	OSHA (Occupational Safety and Health Administration of the US Department of Labor).
Training Advice	Do not handle until all safety precautions have been read and understood
Abbreviations and acronyms	<ul> <li>IARC (International Agency for Research on Cancer)</li> <li>IATA (International Air Transport Association)</li> <li>IMDG (International Maritime Dangerous Goods)</li> <li>IUCLID (International Uniform Chemical Information Database)</li> <li>WHMIS (Workplace Hazardous Materials Information Database)</li> <li>WH (Time-Weighted Average)</li> <li>CLP (The Classification, Labeling and Packaging of Substances and Mixtures Regulation (EC 1272/2008))</li> <li>PPE (Personal Protection Equipment)</li> <li>NIOSH (National Institute for Occupational Safety and Health)</li> <li>TDG (Transport of Dangerous Goods) Canada</li> <li>CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act)</li> <li>RQ (Reportable Quantity) (RQ/% in mixture)</li> <li>STEL (Short Term Exposure Limit)</li> <li>TLV® (Threshold Limit Value)</li> <li>DNEL (Derived No Effect Level)</li> <li>SVHC (Substances of Very High Concern)</li> <li>BOD (Biochemical oxygen demand)</li> <li>CAO (International Maritime Dangerous Goods)</li> <li>ADR (European Agreement Concerning the International Carriage of Dangerous Goods by Road)</li> <li>RID (Agreement Concerning th</li></ul>
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