

#### 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.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

Physical Hazards Not classified

Health Hazards Not classified

Environmental Hazard Not classified

2.2. Label elements

Symbols/Pictograms None

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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

**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 classified None known.

(HNOC)

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

Chemical Name	CAS Number	TSCA: United States	Canada (DSL)	Mexico	EU REACH registration number	OSHA Regulatory Status	WHMIS	Weight-%
Magnesium Hydroxide	1309-42-8	A	Y	Y	01-211948875 6-18-0040	Not regulated		-
Surface treatment	57-11-4	А	Y	Y	Exempt	Not classified	Combustible	-

Legend

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

### **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.

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**Skin Contact** Wash with plenty of soap and water.

Rinse mouth thoroughly with water. Ingestion

Do not breathe dust. If breathing is difficult, remove victim to fresh air and keep at Inhalation

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

May cause irritation to mucous membranes and respiratory tract. Contact with dust can cause mechanical irritation or drying of the skin.

medical attention and special

treatment needed

**4.3. Indication of any immediate** 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.

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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.

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

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

including any incompatibilities

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

### 8.1. Control parameters

### Occupational exposure limits

Magnesium Hydroxide

OSHA TWA: 15 mg/m³ total dust 5 mg/m³ respirable

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

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

Canada Not established

Surface treatment

Canada 10 mg/m<sup>3</sup>

PNEC (Predicted No Effect

Concentration)

No information available

DNEL (Derived No Effect Level) No information available

Biological Limit Values 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** Wear safety glasses with side shields (or goggles).

**Skin and Body Protection** Wear suitable protective clothing.

Hand Protection For operations where prolonged or repeated skin contact may occur, impervious

gloves should be worn.

**Respiratory Protection** In case of inadequate ventilation wear respiratory protection.

Thermal hazards 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

Appearance:

Physical State Solid Powder Color White Odorless

Odor Threshold No information available

pH: 8.4-10.2 (5% water suspension)

Flash Point

Evaporation Rate

Flammability (solid, gas)

Non-combustible

Not determined.

Not applicable

Upper flammability limit: Lower flammability limit:

Relative Density No data available

Water Solubility Insoluble

Solubility in other solvents
Partition coefficient
Autoignition Temperature
Decomposition Temperature
No data available

### **SECTION 10: Stability and reactivity**

**10.1. Reactivity** Stable under normal conditions

**10.2. Chemical stability** Stable under normal conditions

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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

Skin Prolonged or repeated contact may dry skin and cause irritation

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

Ingestion is not a likely route of exposure Ingestion

Not an expected route of exposure. **Aspiration hazard** 

11.1. Information on toxicological effects

Magnesium Hydroxide

Oral LD50 8500 mg/kg Rat

Surface treatment

Oral LD50 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

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

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

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## **SECTION 12: Ecological information**

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

Magnesium Hydroxide

WGK Classification (AwSV) 5209 WGK: nwg

Surface treatment

WGK Classification (AwSV) 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. Other adverse effects** No information available

# **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

Magnesium Hydroxide

European Waste Catalog 060299

WGK Classification (AwSV) 5209 WGK: nwg

**Surface treatment** 

WGK Classification (AwSV) 661: WGK: nwg

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# **SECTION 14: Transport information**

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

DOT Not regulated
ADR Not regulated
ADN Not regulated
IATA 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** Not applicable

usei

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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	Α
Surface treatment	57-11-4	-	Exempt	Y	Y	Y	(2)-609 (2)-608 (ENCS)(ISH L)	KE-26333	Y	Y	Y	Y	А

Legend

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#### **US Federal Regulations**

**EPA** 

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**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	No	No	No	No	No
Surface treatment	57-11-4	No	No	No	No	No

Legend 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

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Huber Engineered Materials (HEM) Global Regulatory Affairs Prepared by

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**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.

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

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)

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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)

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**End of Safety Data Sheet**