Safety Data Sheet



Vertex® 100SA

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® 100SA

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 Employ good industrial hygiene practice

> Do not handle until all safety precautions have been read and understood Wear protective gloves/protective clothing/eye protection/face protection

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

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

lenses, if present and easy to do. Continue rinsing

Storage Store away from incompatible materials

Disposal Dispose of contents/containers in accordance with local 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	Α	Y	Y	01-211948875	Not regulated		-
Surface Treetment	Dropriotory	۸	V	V	6-18-0040	Not classified		-1
Surface Treatment	Proprietary	Α	Y	Y		Not classified		<1

Legend

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Do not handle until all safety precautions have been read and understood. Employ **General Advice**

> 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.

In case of eye contact, remove contact lens and rinse immediately with plenty of **Eye Contact**

water, also under the eyelids, for at least 15 minutes.

Skin Contact Wash with plenty of soap and water.

Ingestion Rinse mouth thoroughly with water.

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

position comfortable for breathing.

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

4.2. Most important symptoms

and effects, both acute and

delayed

Eye irritation.

4.3. Indication of any immediate Treat symptomatically. medical attention and special

treatment needed

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing

Media

Water spray (fog). Foam. Dry chemical. Carbon dioxide (CO2). 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

Water mist may be used to cool closed containers.

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. Avoid dust formation. Ensure adequate ventilation.

For non-emergency personnel Keep unauthorized personnel away. Wear suitable protective clothing and gloves.

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For emergency responders Keep unauthorized personnel away.

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

Minimize dust generation and accumulation. Provide local exhaust ventilation. Handle in accordance with good industrial hygiene and safety practice.

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

including any incompatibilities

7.3. Specific end use(s) Flame retardant. Smoke suppressant.

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) TWA 15 mg/m³ (total dust)

Not established Canada

PNEC (Predicted No Effect

Concentration)

NIOSH

No information available

Consumer - oral, long-term - local and systemic 4.74 mg/kg bw/day Worker -DNEL (Derived No Effect Level)

inhalative, long-term - local and systemic 10.74 mg/m³

Biological Limit Values None

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).

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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.

No information available. **Hygiene Measures**

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:

Solid Powder **Physical State** White Color Odor Odorless

Odor Threshold No information available

8.4-10.2 (5% water suspension) pH:

Melting Point / Melting Range No information available

Melting point / Freezing point Not applicable

Initial boiling point No information available

Freezing Point Not applicable **Flash Point** Non-combustible Not applicable. **Evaporation Rate** Not applicable Flammability (solid, gas)

Upper flammability limit: Lower flammability limit:

Vapor Pressure Not applicable **Vapor Density** Not applicable Not applicable **Vapor Density Density** 2.4 g/cm3, 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.

Not applicable Kinematic viscosity Not oxidizing **Oxidizing Properties**

No information available **Particle Size**

VOC Content (%) Not applicable

9.2. Other information

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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 avoidNone known

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.

11.1. Information on toxicological effects

Magnesium Hydroxide

Oral LD50 8500 mg/kg Rat

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

Skin Corrosion/Irritation Based on available data, the classification criteria are not met

Skin SensitizationBased on available data, the classification criteria are not met

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Reproductive Toxicity 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.

Specific target organ toxicity -

Single exposure

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

Specific target organ toxicity -

Repeated exposure

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

Mixture versus substance

information

No information available

Information on Likely Routes of Exposure

Inhalation Inhalation of dust may cause irritation of the respiratory system

Ingestion Gastrointestinal discomfort

Skin Prolonged exposure may cause skin irritation

Eyes May cause irritation.

Based on available data, the classification criteria are not met. **Aspiration hazard**

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

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 Not applicable

Bioconcentration factor

(BCF)

Not available.

12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB Not available.

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assessment

12.6. Endocrine disrupting

properties

This product does not contain any known or suspected endocrine disruptors

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 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

European Waste Catalog 060299

WGK Classification (AwSV) 5209 WGK: nwg

SECTION 14: Transport information

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

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

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

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14.6. Special precautions for Not applicable

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)		TSCA: United States
Magnesium Hydroxide	1309-42-8		01-211948 8756-18-0 040		Y	Y	(1)-386 (ENCS) (ISHL)	KE-22716	Υ	Y	Y	Υ	А
Surface Treatment	Proprietar y	*		Y	Y	Y	Y	Y	Υ	Y	Y	Y	Α

Legend

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

US Federal Regulations

EPA

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	Proprietary	No	No	No	No	No

Legend Y: Listed; N: Not Listed

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

This product does not contain any Proposition 65 chemicals

CANADA

WHMIS

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

SECTION 16: Other information

Prepared by Huber Engineered Materials (HEM) Global Regulatory Affairs

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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.

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 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