Safety Data Sheet



Vertex® 100SF

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
Globally Harmonized System (GHS)

Issue Date: 04/Mar/2021 Revision Number: 1.4.1

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

1.1. Product identifier

Product Name: Vertex® 100SF

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

PreventionDo 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	REACH registration number	OSHA Regulatory Status	WHMIS	Weight-%
Magnesium Hydroxide	1309-42-8	Α	Y	Y	01-211948875 6-18-0040	Not regulated	-	97-99
Surface Treatment	Proprietary	Α	Y	N		Not regulated		1-3

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

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

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Skin Contact Wash with plenty of soap and water.

Rinse mouth thoroughly with water. Ingestion

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

position comfortable for breathing.

Aspiration hazard Not an expected route of exposure.

4.2. Most important symptoms and effects, both acute and

delayed

Dust contact with the eyes can lead to mechanical irritation. 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.

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)

TWA 15 mg/m³ (total dust)

Canada Not established

Predicted No Effect Concentration (PNEC)

NIOSH

No information available

Derived No Effect Level (DNEL) No information available

Biological Limit Values: No information available

8.2. Exposure controls

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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 Odor Odorless

Odor Threshold No information available

pH: 8.4-10.2 (5% water suspension)

Melting point / Freezing point662 °F (350 °C)Flash Point:Non-combustible.Evaporation RateNot determined.Flammability (solid, gas)Not applicable

Upper flammability limit:

Lower flammability limit:

Vapor DensityNot applicableDensity2.4 g/cm3, 20°CRelative Density2.4 g/cm3, 20° CWater Solubility11.7 mg/l , 25° CSolubility in other solventsNo information average of the contract of t

Solubility in other solvents
Partition coefficient
Autoignition Temperature
Decomposition Temperature
No information available
No data available
626 °F (330° C)

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

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Stable under normal conditions 10.2. Chemical stability

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

Avoid inhalation of the product Inhalation

Inhalation of dust may cause irritation of the respiratory system

Prolonged or repeated contact may dry skin and cause irritation Skin

Dust contact with the eyes can lead to mechanical irritation Eyes

Ingestion Ingestion is not a likely route of exposure

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 2830 µL/kg (rat)

Not classified **Acute Toxicity**

Not classified. **Chronic Toxicity**

Serious eye damage/eye

irritation

Based on available data, the classification criteria are not met

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

This product does not contain any known or suspected reproductive hazards. **Reproductive Effects**

Carcinogenicity Not listed as a carcinogen.

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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

WGK Classification (AwSV) 5209 WGK: nwg

12.2. Persistence and

degradability

No data available.

12.3. Bioaccumulative potential No data available.

Partition coefficient No information 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 MethodsDisposal 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

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WGK Classification (AwSV) 5209 WGK: nwg

SECTION 14: Transport information

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

TDG -Canada	Not regulated
DOT	Not regulated
ADR	Not regulated
RID	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

user

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	REACH registrati on number	Australia (AICS)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico		Philippine s (PICCS)	Taiwan	TSCA: United States
Magnesium Hydroxide	1309-42-8				Y	Y	(1)-386 (ENCS) (ISHL)	KE-22716	Υ	Y	Y	Υ	А
Surface Treatment	Proprietar y	*	Exempt	Y	Y	Y	Y	Y	N	Y	Y	Υ	А

Legend

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EPA

CERCLA Not listed

SARA 302 Not listed

CWA (Clean Water Act)

Not listed

CAA (Clean Air Act)

Not listed

U.S. State Right-to-Know Regulations

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

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 Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR

SECTION 16: Other information

Huber Engineered Materials (HEM) Global Regulatory Affairs Prepared by

regulatory.affairs@huber.com

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Revised Section(s):. 1. 3. OSHA (Occupational Safety and Health Administration **Reason for Version**

of the US Department of Labor).

Training Advice Do not handle until all safety precautions have been read and understood.

International Agency for Research on Cancer (IARC) Abbreviations and acronyms

International Air Transport Association (IATA)

International Maritime Dangerous Goods (IMDG)

International Uniform Chemical Information Database (IUCLID) Workplace Hazardous Materials Information System (WHMIS) status and classification

EPA SARA Title III Section 312 (40 CFR 370) Hazard Classification

DOT (Department of Transportation)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

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TWA - Time-Weighted Average

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) The Classification, Labeling and Packaging of Substances and Mixtures (CLP) Regulation (EC

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)

Reportable Quantity (RQ) (RQ/% in mixture)

STEL - Short Term Exposure Limit TLV® - Threshold Limit Value

Derived No Effect Level (DNEL)

SVHC: Substances of Very High Concern for Authorization:

Land transport (ADR/RID)

Biochemical oxygen demand (BOD)

Chemical oxygen demand (COD)

ICAO (air)

(IMDG) International Maritime Dangerous Goods

Positive Pressure Self-Contained Breathing Apparatus (SCBA)

Predicted No Effect Concentration (PNEC) Globally Harmonized System (GHS)

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