

#### Vertex® 100SF

Prepared in accordance with GB/T 16483-2008, GB/T 24774-2009, GB 13690 – 2009, GB/T 17519–2013 Globally Harmonized System (GHS)

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# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Vertex® 100SF

Magnesium Hydroxide

**CAS Number** 1309-42-8 **Weight-%** 97-99

**Surface Treatment** 

CAS Number Proprietary

Weight-% 1-3

Recommended Use Smoke suppressant Flame retardant

Uses advised against None known

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# **Section 2: HAZARDS IDENTIFICATION**

GHS Classification Not classified

Physical Hazard Not classified

Health Hazard Not classified

Environmental Hazard Not classified

**Label Elements** 

Symbols/Pictograms None

Signal Word None

Hazard Statement None

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### **Precautionary Statements**

Prevention Avoid release to the environment

Avoid breathing dust.

Use mechanical ventilation (dilution and local exhaust) to control exposure

Response If skin irritation occurs: Get medical advice/attention

**Spills and Leaks** Collect spillage

Storage Store in a dry place

Store in a well-ventilated place.

**Disposal** Dispose in accordance with local, state and national regulations

**General Advice** In case of doubt or when symptoms persist, seek medical attention.

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	China (IECSC)	China classification	TSCA: United States	REACH registration number	Weight-%
Magnesium Hydroxide	1309-42-8	Y	Not classified as a dangerous goods/substances	А	01-2119488756-18 -0040	97-99
Surface Treatment	Proprietary	Y		Α	Exempt	1-3

# **Section 4: FIRST AID MEASURES**

**General Advice** In case of doubt or when symptoms persist, seek medical attention.

**Eye Contact** Hold eyelids apart and flush eyes with a steady, gentle stream of water for several

minutes.

**Skin Contact** Wash skin with soap and water

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for Inhalation

breathing

**Notes to Physician** Treat symptomatically

Personal Protective Equipment Wear suitable protective clothing

For First Aid Responders IF exposed or concerned: Get medical advice/attention

Expected acute symptoms and None known

delayed symptoms

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### **Section 5: FIRE FIGHTING MEASURES**

Flammable Properties None known

Suitable Extinguishing Media All extinguishing media can be used. Use suitable media appropriate for the

surrounding fire.

Unsuitable extinguishing media: Not applicable

**Specific Hazards Arising from** 

the Chemical

Avoid dust formation. In the event of fire and/or explosion do not breathe fumes. The pressure in sealed containers can increase under the influence of heat. Use

water spray to cool unopened containers.

**Unusual fire & explosion** 

hazards:

None

**Protective measures:** Use protective equipment that is appropriate for surrounding materials.

**Protective Equipment and Precautions for Firefighters** 

Wear self-contained breathing apparatus and protective suit

# Section 6: SPILLAGE, ACCIDENTAL RELEASE MEASURES

**Personal Precautions**Use personal protective equipment. Avoid dust formation. Avoid contact with skin,

eyes and clothing. Avoid inhalation of dust.

Ensure adequate ventilation. Avoid dust formation. Avoid inhalation of dust. Refer

to Section 8 for personal protective equipment.

Wet material on walking surfaces will be extremely slippery.

**Environmental Precautions** Prevent from entering into soil, ditches, sewers and waterways.

Methods for cleaning up Sweep or vacuum spilled material Dispose of according to local and regional

authority requirements

Other Information: None known

### **Section 7: HANDLING AND STORAGE**

Handling Avoid contact with eyes and skin. Wear suitable personal protection equipment.

Wash throughly after handling. Avoid conditions that generate airborne dust in handling, transfer and clean up. Wear personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Do not breathe vapors/dust. Avoid contact with skin, eyes and clothing. Avoid dust formation. Avoid breathing dust.

Handle in accordance with good industrial hygiene and safety practice.

Storage Keep container tightly closed in a dry and well-ventilated place

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### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits Provide adequate ventilation as well as local exhaustion at critical locations

Magnesium Hydroxide

NIOSH

**OSHA** 

ChinaTWA: Not establishedChinaSTEL: Not established

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

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

5 mg/m³ respirable

Engineering Measures Do not handle until all safety precautions have been read and understood

Ensure adequate ventilation, especially in confined areas

Provide a good standard of controlled ventilation (10 to 15 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 Protective gloves

**Respiratory Protection** When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

**Environmental Exposure** 

**Controls** 

Dispose of in accordance with local regulations

# **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties

Appearance:

Physical State Solid

Color White Odor Odorless

Odor Threshold No information available

pH: 8.4-10.2 (5% water suspension)

Melting point / Freezing point
Flash Point:

Evaporation Rate
Flammability (solid, gas)

662 °F (350 °C)
Non-combustible.
Not applicable
Not applicable

Upper flammability limit:

Lower flammability limit:

Vapor Density Not applicable

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2.4 g/cm3, 20°C **Density** 2.4 g/cm3, 20° C **Relative Density** 11.7 mg/l, 25° C **Water Solubility** 

Solubility in other solvents No information available Partition coefficient No information available

**Autoignition Temperature** No data available 626 °F (330° C) **Decomposition Temperature** 

# **Section 10: STABILITY AND REACTIVITY**

**Stability** Stable under normal conditions

Conditions to avoid: None

Incompatible materials None known

**Hazardous decomposition** 

products

None under normal processing

**Hazardous Reactions** None under normal processing

None under normal processing Hazardous polymerization:

# Section 11: TOXICOLOGICAL INFORMATION

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

equivalent values.

**Product Information** 

Information on Likely Routes of Exposure

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

Skin Prolonged or repeated contact may dry skin and cause irritation

Inhalation Avoid inhalation of the product

Inhalation of dust may cause irritation of the respiratory system

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

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8500 mg/kg Rat Oral LD50

**Surface Treatment** 

Oral LD50 2830 µL/kg (rat)

**Acute Toxicity** Not classified

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

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

Carcinogenicity Not listed as a carcinogen.

Specific target organ toxicity -

Single exposure

No information available.

Specific target organ toxicity -

Repeated exposure

No information available.

## **Section 12: ECOLOGICAL INFORMATION**

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

Persistence/Degradability: No data available.

This mixture contains no substance considered to be persistent, bioaccumulating **Bioaccumulative Potential** 

nor toxic (PBT).

**Partition coefficient** 

**Bioconcentration factor** 

(BCF)

No information available

No data available.

Mobility in soil No data available.

Results of PBT and vPvB

assessment

This substance does not meet the criteria for classification as PBT or vPvB.

Other Adverse Effects None known

# **Section 13: DISPOSAL CONSIDERATIONS**

Waste from Residues/Unused Dispose of in accordance with local regulations

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**Products** 

Contaminated Packaging: Dispose of container and unused contents in accordance with federal, state and

local requirements

### **Section 14: TRANSPORT INFORMATION**

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

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

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **Global Inventories**

Chemical Name	CAS Number	EC No	REACH registration number	Australia (AICS)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	Zealand	Philippin es (PICCS)		TSCA: United States
Magnesium Hydroxide	1309-42-8	215-170-3	01-211948875 6-18-0040	Y	Υ	Y	(1)-386 (ENCS) (ISHL)	KE-22716	Y	Y	Y	Y	Α
Surface Treatment	Proprietary	*	Exempt	Y	Y	Y	Y	Y	N	Y	Y	Y	Α

Legend

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

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# **Section 16: OTHER INFORMATION**

Prepared by Huber Engineered Materials Global Regulatory Affairs

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**Reason for Revision** GB/T 16483-2008

GB/T 24774-2009 GB 13690 – 2009 GB/T 17519–2013

GHS Classification Not classified

Physical Hazard Not classified

Health Hazard Not classified

Environmental Hazard Not classified

**Label Elements** 

Symbols/Pictograms None

Signal Word None

Hazard Statement None

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

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)

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 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)

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)

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Globally Harmonized System (GHS)

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**End of Safety Data Sheet**