

#### Vertex® 60 SA

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)

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

1.1. Product identifier

**Product Name:** Vertex® 60 SA

Magnesium Hydroxide

1309-42-8 **CAS Number** 

Weight-%

Surface Treatment

**CAS Number Proprietary** 

Weight-%

1.2. Relevant identified uses of the substance or mixture and uses advised against

**Recommended Use** Smoke suppressant. flame retardant.

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

www.hubermaterials.com Internet

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

Not classified **Physical Hazards** 

Not classified **Health Hazards** 

Not classified **Environmental Hazard** 

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#### 2.2. Label elements

Symbols/Pictograms None

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

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

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	<b>CAS Number</b>	TSCA: United	Canada (DSL)	Mexico	REACH	OSHA	WHMIS	Weight-%
		States			registration	Regulatory		
					number	Status		
Magnesium Hydroxide	1309-42-8	Y	Υ	Υ	01-211948875	Not regulated	Not regulated	-
					6-18-0040		_	
Surface Treatment	Proprietary	Y	Y			Not classified		-

Legend

X / Y: Complies , - / N: Not Listed , Exempt

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

Rinse mouth thoroughly with water. Ingestion

Inhalation Do not breathe dust. If breathing is difficult, remove victim 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

Eye irritation.

delayed

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.

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

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 Minimize dust generation and accumulation. Provide local exhaust ventilation. handling

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

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

3 mg/m<sup>3</sup> (respirable fraction)

NIOSH TWA: 15 mg/m<sup>3</sup> (total dust)

Canada Not established

TWA/OEL (VLE-PPT): Not established Mexico

**Biological Limit Values:** None

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

inhalative, long-term - local and systemic 10.74 mg/m<sup>3</sup>

**Predicted No Effect** Concentration (PNEC)

No information available

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8.2. Exposure controls

Ensure adequate ventilation, especially in confined areas. Provide a good **Engineering Measures** 

standard of controlled ventilation (10 to 15 air changes per hour).

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.

**Hand Protection** Wear suitable gloves.

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

None known. Thermal hazards

**Hygiene Measures** Follow general hygiene considerations recognized as common good workplace

practices. The worker should wash daily at the end of each work shift, and prior to

eating, drinking, smoking, etc.

**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

8.4-10.2 (5% water suspension) pH:

**Melting Point / Melting Range** No information available **Initial boiling point** No information available

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

**Upper flammability limit:** 

Lower flammability limit:

**Vapor Pressure** Not applicable **Vapor Density** Not applicable Density 2.4 g/cm3, 20°C

**Relative Density** 

11.7 mg/l, 25° C **Water Solubility** 

Solubility in other solvents

**Partition coefficient** Not available **Autoignition Temperature** Not applicable **Decomposition Temperature** 626 °F (330° C)

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**Oxidizing Properties** Not oxidizing

# **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 avoid None known.

10.5. Incompatible materials None known

10.6. Hazardous decomposition None known

products

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

**SECTION 11: Toxicological information** 

equivalent values.

Information on Likely Routes of Exposure

Inhalation Inhalation of dust may cause irritation of the respiratory system

Prolonged exposure may cause skin irritation Skin

**Eyes** May cause irritation.

Gastrointestinal discomfort Ingestion

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

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

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

**Skin Sensitization** Based 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.

**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

## **SECTION 12: Ecological information**

**12.1. Ecotoxicity** Not classified. Avoid release to the environment.

Magnesium Hydroxide

WGK Classification (VwVwS) 5209. WGK: nwg

12.2. Persistence and

degradability

No data available.

**12.3. Bioaccumulative potential** No data available.

Partition coefficient Not available

**Bioconcentration factor** 

(BCF)

Not available.

**12.4. Mobility in soil** No data available.

12.5. Results of PBT and vPvB

assessment

Not available.

12.6. Other adverse effects None known

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

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**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 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 (VwVwS) 5209. WGK: nwg

## **SECTION 14: Transport information**

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

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

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	EC No	REACH	Australia	Canada	China	Japan	S. Korea	Mexico	New	Philippine	Taiwan	TSCA:

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	Number		registrati on number	(AICS)	(DSL)	(IECSC)		(KECL)		Zealand	s (PICCS)		United States
Magnesium Hydroxide	1309-42-8		01-211948 8756-18-0 040	Υ	Y		ENCS:(1)-3 86 ISHL:(1)-38 6	KE-22716	Y	Y	Y	Y	Y
Surface Treatment	Proprietar y	*	Exempt	Y	Y	Y	Y	Y	1		Y	Y	Y

Legend

X / Y: Complies - / N: Not Listed Exempt

### **US Federal Regulations**

#### **EPA**

**CERCLA** 

Magnesium Hydroxide

No CERCLA SARA 311/312 Hazardous No Categorization

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

Chemical Name	CAS Number	California Proposition 65	California CPR	Massachusetts	Minnesota	New Jersey	Pennsylvania
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

#### Magnesium Hydroxide

Not regulated

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

Huber Engineered Materials (HEM) Global Regulatory Affairs Prepared by

regulatory.affairs@huber.com

23/Mar/2018 **Issue Date: Print Date:** 23/Mar/2018

**Revision Number:** 

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.

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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) 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**