



### Vertex<sup>®</sup> 60

This material safety datasheet has been prepared according to Brazilian legislation and ABNT NBR 14725:2014 GHS (Globally Harmonized System)

Issue Date 02/Sep/2022 Print Date 02/Sep/2022

Revision Number 1.4.1

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

### 1.1. Product identifier . . .

.

Weight-%

Product Name:	Vertex <sup>®</sup> 60
Chemical Name	Magnesium Hydroxide
Pure substance/mixture	Substance
Magnesium Hydroxide CAS Number	1309-42-8

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

100

Recommended Use	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**

**Brazil Ministry of Transport** 

This product is not part of the Hazardous Products Classification established by the Brazilian Federal Department of Transportation's Administrative Ruling 204

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	from 5/20/1997.
2.1. Classification of the substa	ance or mixture
Physical Hazards	Not classified
Health Hazards	Not classified
Environmental Hazard	Not classified
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 Do not breathe dust Wear protective gloves/protective clothing/eye protection/face protection
Response	IF exposed or concerned: Get medical advice/attention Wash with plenty of soap and water
Storage	Store away from incompatible materials Keep in a dry place
Disposal	Dispose of contents/containers in accordance with local regulations

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

#### Pure substance/mixture

Substance

Chemical Name	CAS Number	TSCA: United States	EU REACH	GHS Classification	Weight-%
			registration number		
Magnesium Hydroxide	1309-42-8	A	01-2119488756-18-00 40	Not classified.	100

**Additional information** 

TSCA A: Component is listed on Inventory as Active

# **SECTION 4: First aid measures**

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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.
Skin Contact	Wash with plenty of soap and water.
Ingestion	Rinse mouth thoroughly with water.
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	Not an expected route of exposure.
4.2. Most important symptoms and effects, both acute and delayed	May cause skin, eye, and respiratory tract irritation.
4.3. Indication of any immediate medical attention and special treatment needed	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). Foam. Dry chemical. Carbon dioxide (CO2).
Unsuitable Extinguishing Media	None known.
5.2. Special hazards arising from the substance or mixture	<b>m</b> Avoid dust formation.
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. Combustible dust may form combustible (explosive) dust-air mixtures.

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### **SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures	Keep unauthorized personnel away Ensure adequate ventilation Avoid dust formation Use personal protection recommended in Section 8
For non-emergency personnel	Keep unauthorized personnel away.
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 containment and cleaning up	Large Spill: Do not dry sweep dust. Wet dust with water before sweeping or use a vacuum to collect dust Small Spill: Vacuum or sweep material and place in a disposal container The use of water wash down is not recommended unless the spilled material is already wet
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**

handlingDo 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	7.1. Precautions for safe handling	Minimize dust generation and accumulation Do not breathe dust Ensure adequate ventilation Wear appropriate personal protective clothing to prevent skin contact	
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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 - 1309-42-8			
OSHA	TWA: 15 mg/m <sup>3</sup> total dust		
	5 mg/m <sup>3</sup> respirable		
NIOSH	TWA: 15 mg/m <sup>3</sup> (total dust)		
ACGIH	TLV-TWA: 8-hr : 10 mg/m <sup>3</sup> (total dust)		
	3 mg/m <sup>3</sup> (respirable fraction)		
Mexico	TWA/OEL (VLE-PPT): Not established		

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Concentration)	
<b>Biological Limit Values</b>	No information available
8.2. Exposure controls	
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	For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.
Respiratory Protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
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

Physical State	Solid.
Color	White
Odor	Odorless
Odor Threshold	No information available
pH:	8.4-10.2 (5% water suspension)
Melting point / Freezing point	Not available
Initial boiling point	Not available
Flash Point	Non-combustible
Evaporation Rate	Not applicable
Vapor Density	Not applicable

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Relative Density	No data available
Density	2.4 g/cm3, 20°C
Water Solubility	11.7 mg/l , 25° C
Partition coefficient	No data available
Autoignition Temperature	Not applicable
Decomposition Temperature	626 °F (330° C)
Viscosity	Not applicable
Explosive Properties	Not applicable
Oxidizing Properties	Not available
VOC Content (%) Solubility in other solvents	Not applicable No information available

#### 9.2. Other information

# **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	Incompatible materials. Dust formation.
10.6. Hazardous decomposition products	None known.

# **SECTION 11: Toxicological information**

General Information	Users are advised to consider national Occupational Exposure Limits or othe equivalent values.				
Information on Likely Routes of Exposure					
Inhalation	Avoid inhalation of the product. May cause irritation of respiratory tract.				
Skin	Prolonged or repeated contact may dry skin and cause irritation.				
Eyes	Dust contact with the eyes can lead to mechanical irritation.				

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Ingestion	Ingestion is not a likely route of exposure.					
Aspiration hazard	Not an expected route of exposure.					
Symptoms related to the physical, chemical and toxicological characteristics	Signs and symptoms may include coughing, gasping, choking and difficulty breathing. Contact with eyes may cause irritation.					
11.1. Information on toxicological effects						
Magnesium Hydroxide - 1309-42 Oral LD50	2 <b>-8</b> 8500 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.					
Chronic Effects	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.					
Respiratory Sensitization	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 Effects	Based on available data, the classification criteria are not met.					
Reproductive Toxicity	Based on available data, the classification criteria are not met.					
Carcinogenicity	Not listed as a carcinogen.					
Specific target organ toxicity - Single exposure	No information available.					
Specific target organ toxicity - Repeated exposure	No information available.					
Mixture versus substance information	No information available.					

# **SECTION 12: Ecological information**

12.1. Ecotoxicity

Not considered to be harmful to aquatic life.

Magnesium Hydroxide - 1309-42-8 WGK Classification (AwSV) 5209 WGK: nwg

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12.2. Persistence and degradability	Not biodegradable.
12.3. Bioaccumulative potential	This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).
Partition coefficient	No data available.
Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	This substance does not meet the criteria for classification as PBT or vPvB.
12.6. Other adverse effects	None known

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

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				
Disposal Methods	Dispose of waste product or used containers according to local regulations				
Jagnasium Hudrovida - 1200-12-8					

### Magnesium Hydroxide - 1309-42-8

European Waste Catalog 060299

# **SECTION 14: Transport information**

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

ADR	Not regulated
RID	Not regulated
ADN	Not regulated
ΙΑΤΑ	Not regulated
IMDG/IMO	Not regulated
ICAO	Not regulated

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- 14.1. UN number None
- 14.2. UN proper shipping name None
- 14.3. Transport hazard class(es) None
- 14.4. Packing groupNone
- 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

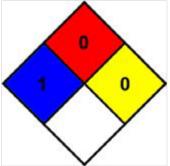
#### **Global Inventories**

Chemical Name	CAS Number	EC No	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	Y	Y	Y	Y	A

Legend

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

Information on risks and safety as written on the label Health - Blue Flammability - Red Physical Hazard - Yellow Special - White



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3- High

2- Moderate

1- Low

0- Minimum

# **SECTION 16: Other information**

Prepared by	Huber Engineered Materials (HEM) Global Regulatory Affairs regulatory.affairs@huber.com			
Reason for Version	Brasil: ABNT NRB 14725-4: 2014.			
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) ICAO (International Civil Aviation Organization) IMDG (International Maritime Dangerous Goods) SCBA (Self-Contained Breathing Apparatus) Positive Pressure PNEC (Predicted No Effect Concentration) GHS (Globally Harmonized System) 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