Safety Data Sheet



Vertex® 100SF

Globally Harmonized System (GHS)

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

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

1.1. Product identifier Product Name:

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Chemical Name	CAS Number	REACH registration number	TSCA: United States	GHS Classification	Weight-%
Magnesium Hydroxide	1309-42-8	01-2119488756-18- 0040	A	Not classified.	97-99
Surface Treatment	Proprietary		A	Not classified.	1-3

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	huber.europe@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

GHS Classification

This product is not classified as hazardous according to the UN GHS guideline and labeling is not required

Hazards identification

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Physical Hazard	Not classified.
Health Hazards	Not classified
Environmental Hazard	Not classified.
2.2. Label elements	
Symbols/Pictograms	None
Signal Word	None
Precautionary Statements	
Prevention	Employ good industrial hygiene practice Do not breathe dust
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	Keep in a dry place.
Disposal	Dispose of contents/containers in accordance with local regulations. See Section 13: DISPOSAL CONSIDERATIONS.
2.3. Other hazards	No information available.

SECTION 3: Composition/information on ingredients

Chemical Name	CAS Number	REACH registration number	GHS Classification	Weight-%
Magnesium Hydroxide	1309-42-8	01-2119488756-18-0040	Not classified.	97-99
Surface Treatment	Proprietary	Exempt	Not classified.	1-3

SECTION 4: First aid measures

4.1. Description of first aid measures

General Advice	When in doubt or if symptoms are observed, get medical advice. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
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.
Skin Contact	Wash with plenty of soap and water.
Inhalation	Do not breathe dust. IF INHALED: Remove to fresh air and keep at rest in a

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	position comfortable for breathing.
Ingestion	Rinse mouth thoroughly with water.
Aspiration hazard	Not an expected route of exposure.
Notes to Physician	Treat symptomatically.
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.
4.3. Indication of any immediate medical attention and special treatment needed	Treat symptomatically. 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

Use extinguishing agent suitable for type of surrounding fire. Water spray (fog). Dry chemical. Foam. Carbon dioxide (CO2).

Unsuitable Extinguishing Media None known.

5.2. Special hazards arising from the substance or mixture

Non-combustible.

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.

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.

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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
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 Ensure adequate ventilation Handle in accordance with good industrial hygiene and safety practice Use personal protective equipment as required
7.2. Conditions for safe storage	, Keep container tightly closed and dry

including any incompatibilities Store away from incompatible materials

SECTION 8: Exposure controls/personal protection

Exposure Limits	Provide adequate ventilation as well as local exhaustion at critical locations
Magnesium Hydroxide	
ACGIH	TLV-TWA: 8-hr : 10 mg/m³ (total dust)
OSHA	3 mg/m ³ (respirable fraction) TWA: 15 mg/m ³ total dust 5 mg/m ³ respirable
Australia	Not established
China	TWA: Not established
China	STEL: Not established
India	TWA: Not established
Korea	TWA: Not established
Korea	STEL: Not established
Mexico	TWA/OEL (VLE-PPT): Not established
New Zealand	Not established
Taiwan	OEL: Not established
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

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Personal Protective Equipment Eye/Face Protection	Wear safety goggles with side protection
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

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: 662 °F (350 °C) Melting point / Freezing point Flash Point: Non-combustible. **Evaporation Rate** Not determined. Flammability (solid, gas) Not applicable Upper flammability limit: Lower flammability limit: Vapor Density Not applicable 2.4 g/cm3, 20°C Densitv **Relative Density** 2.4 g/cm3, 20° C Water Solubility 11.7 mg/l, 25° C Solubility in other solvents No information available Partition coefficient No information available No data available Autoignition Temperature **Decomposition Temperature** 626 °F (330° C)

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability Stable under normal conditions

10.3. Possibility of hazardous No specific hazard known reactions

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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
Inhalation	Avoid inhalation of the product Inhalation of dust may cause irritation of the respiratory system
Skin	Prolonged or repeated contact may dry skin and cause irritation
Eyes	Dust contact with the eyes can lead to mechanical irritation
Ingestion	Ingestion is not a likely route of exposure
Aspiration hazard	Not an expected route of exposure.
11.1. Information on toxicologic	al effects
<u>Magnesium Hydroxide</u> Oral LD50 <u>Surface Treatment</u> Oral LD50	8500 mg/kg Rat 2830 μL/kg (rat)
Acute Toxicity	Not classified
Chronic Toxicity	Not classified.
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
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.

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Specific target organ toxicity - No information available. Repeated exposure

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 Methods	Disposal 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
<u>Magnesium Hydroxide</u> European Waste Catalog WGK Classification (AwSV)	060299 5209 WGK: nwg

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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
ΙΑΤΑ	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 user	Not applicable

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 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		01-211948 8756-18-0 040		Y	Y	(1)-386 (ENCS) (ISHL)	KE-22716	Y	Y	Y	Y	A
Surface Treatment	Proprietar y	*		Y	Y	Y	Y	Y	N	Y	Y	Y	A

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

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Magnesium Hydroxide WGK Classification (AwSV) 5209 WGK: nwg

15.2. Chemical safety assessment

SECTION 16: Other information

Prepared by	CP Kelco Global Regulatory Affairs Email: Regulatory.Affairs@cpkelco.com.				
GHS Classification	This product is not classified as hazardous according to the UN GHS guideline and labeling is not required				
Symbols/Pictograms	None				
Signal Word	None				
Hazard Statements	None				
Hazards identification Physical Hazard	Not classified				
Health Hazards	Not classified				
Environmental Hazard	Not classified				
Abbreviations and acronyms	International Agency for Research on Cancer (IARC) International Air Transport Association (IATA) 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 (GOD) 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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End of Safety Data Sheet