



Safety Data Sheet

FIRE RETARDANT ADDITIVES

Vertex® 100 SP

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006
COMMISSION REGULATION (EU) No. 2020/878

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

1.1. Product identifier

Product Name: Vertex® 100 SP

Chemical Name Mixture

| Chemical Name | CAS Number | EC No | EU REACH registration number | (CLP) Regulation (EC 1272/2008) | Weight-% |
|--------------------------------------|--|-------|------------------------------|---------------------------------|----------|
| Magnesium hydroxide, surface treated | Proprietary Magnesium hydroxide CAS: 1309-42-8 | * | 01-2119488756-18-0040 | Not classified | 99-100 |

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

Recommended Use Flame retardant Smoke suppressant

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Manufacturer 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

EU Phone: +358 207 913 500 (J.M. Huber Finland Oy)

Poison control center phone number National Anti-Poison Center UK: +44 844 892 0111 (National Poisons Information Service)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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(CLP) Regulation (EC 1272/2008) Not classified

Hazards identification**Physical Hazard** 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
Wash hands thoroughly after handling**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** Keep in a dry place
Store away from incompatible materials**Disposal** Disposal should be in accordance with applicable regional, national and local laws and regulations.**2.3. Other hazards** No information available.

SECTION 3: Composition/information on ingredients

3.1. Substance Not applicable**3.2. Mixture** Mixture

| Chemical Name | CAS Number | EC No | EU REACH registration number | (CLP) Regulation (EC 1272/2008) | Annex | Weight-% |
|--------------------------------------|--|-------|------------------------------|---------------------------------|-------|----------|
| Magnesium hydroxide, surface treated | Proprietary Magnesium hydroxide CAS: 1309-42-8 | * | 01-2119488756-18-0040 | Not classified | -- | 99-100 |

SECTION 4: First aid measures

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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 position comfortable for breathing. |
| Ingestion | Rinse mouth thoroughly with water. |
| Aspiration hazard | Based on available data, the classification criteria are not met. |
| 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.
- 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, including any incompatibilities** Keep container tightly closed and dry
 Store away from incompatible materials

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Magnesium hydroxide, surface treated

| | |
|-------|--------------------------|
| ACGIH | 10 mg/m ³ TWA |
| OSHA | 10 mg/m ³ |
| NIOSH | -- |

Recommended monitoring procedures Refer also to national guidance documents for information on currently recommended monitoring procedures

Biological Limit Values None

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No information available **DNEL/DMEL** No information available
and **PNEC** values

PNEC (Predicted No Effect Concentration) 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.

Thermal hazards None known.

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 / Melting Range | Not applicable |
| Melting point / Freezing point | Not applicable |
| Initial boiling point and boiling range | Not applicable |
| Freezing Point | Not applicable |
| Flash Point | Non-combustible |
| Evaporation Rate | Not applicable. |
| Flammability (solid, gas) | Not applicable |
| Upper flammability limit: | Not applicable |
| Lower flammability limit: | Not applicable |
| Vapor Pressure | Not applicable |
| Vapor Density | Not applicable |

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| | |
|---------------------------|-------------------------------|
| Vapor Density | Not applicable |
| Density | No data available |
| Relative Density | 2.4 g/cm ³ , 20° C |
| Water Solubility | 11.7 mg/l, 25° C |
| Partition coefficient | Not applicable |
| Autoignition Temperature | Not applicable |
| Decomposition Temperature | 626 °F (330° C) |
| Viscosity | Not applicable. |
| Kinematic viscosity | Not applicable |
| Oxidizing Properties | Not applicable |
| Particle Size | No information available |
| Specific Gravity | 2.4 g/cm ³ , 20° C |
| VOC Content (%) | Not applicable |

9.2. Other information**9.2.1. Information with regard to physical hazard classes**

Not applicable

9.2.2. Other safety characteristics

Not applicable

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 reactions | No specific hazard known |
| 10.4. Conditions to avoid | Incompatible materials Dust formation |
| 10.5. Incompatible materials | None known |
| 10.6. Hazardous decomposition products | None known |

SECTION 11: Toxicological information

General Information Users are advised to consider national Occupational Exposure Limits or other equivalent values.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute Toxicity Not classified

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| | |
|---|--|
| Chronic Toxicity | Not classified. |
| Respiratory Sensitization | Not classified |
| Serious eye damage/eye irritation | Not classified |
| Skin Corrosion/Irritation | Not classified |
| Skin Sensitization | Not classified |
| Mutagenicity | Not classified |
| Reproductive Toxicity | Not classified. |
| Carcinogenicity | No known carcinogens are present at greater than 0.1%. |
| Specific target organ toxicity - Single exposure | Not classified. |
| Specific target organ toxicity - Repeated exposure | Not classified. |

Information on Likely Routes of Exposure

| | |
|--------------------------|---|
| Inhalation | Avoid inhalation of the product |
| Ingestion | Ingestion is not a likely route of exposure |
| Skin | Prolonged or repeated contact may dry skin and cause irritation |
| Eyes | Dust contact with the eyes can lead to mechanical irritation |
| Aspiration hazard | Not an expected route of exposure. |

11.2. Information on other hazards

| | |
|--|---|
| 11.2.1. Endocrine disrupting properties | This product does not contain any known or suspected endocrine disruptors |
| 11.2.2. Other information | Not applicable |

SECTION 12: Ecological information**12.1. Toxicity** Not considered to be harmful to aquatic life**Magnesium hydroxide, surface treated**
WGK Classification (AwSV) 5209. WGK: nwg

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| | |
|---|---|
| 12.2. Persistence and degradability | No data available. |
| 12.3. Bioaccumulative potential | No data available. |
| Partition coefficient | Not applicable |
| 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. Endocrine disrupting properties | This product does not contain any known or suspected endocrine disruptors |

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 |

Magnesium hydroxide, surface treated

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 |

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- 14.1. UN number or ID 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. Maritime transport in bulk according to IMO instruments
 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 | Australia (AIC) | Canada (DSL) | China (IECSC) | Japan | S. Korea (KECL) | Mexico | Thailand (TECI) | New Zealand | Philippines (PICCS) | Taiwan | TSCA: United States |
|--------------------------------------|---|-------|-----------------|--------------|---------------|-------|-----------------|--------|-----------------|-------------|---------------------|--------|---------------------|
| Magnesium hydroxide, surface treated | Proprietary Magnesium hydroxide CAS: 1309-42-8 | * | Y | Y | Y | Y | Y | -- | | - | Y | Y | A |

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

REACH No.

Magnesium hydroxide, surface treated

EU REACH registration number 01-2119488756-18-0040

Germany

Magnesium hydroxide, surface treated

WGK Classification (AwSV) 5209. WGK: nwg

15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance

SECTION 16: Other information

Reason for Revision

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 & COMMISSION REGULATION (EU) No. 2020/878

HUBER

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(CLP) Regulation (EC 1272/2008) Not classified

Labeling

Symbols/Pictograms None
Signal Word None
Hazard Statements None.

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

Abbreviations and acronyms

IARC (International Agency for Research on Cancer)
IUCLID (International Uniform Chemical Information Database)
WHMIS (Workplace Hazardous Materials Information System)
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)
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)
COD (Chemical oxygen demand)
ICAO (International Civil Aviation Organization)
IMDG (International Maritime Dangerous Goods)
ADR (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
RID (Agreement Concerning the International Carriage of Dangerous Goods by Rail)
IATA (International Air Transport Association)
IMDG (International Maritime Dangerous Goods)
DOT (Department of Transportation)
TDG (Transport of Dangerous Goods) Canada
PNEC (Predicted No Effect Concentration)
SCBA (Self-Contained Breathing Apparatus) Positive Pressure
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