Safety Data Sheet



Vertex® 100SV

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
GHS (Globally Harmonized System)

Issue Date 15/Mar/2023 Revision Number 1.3.1
Print Date 31/May/2023 Page 1 of 11

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

1.1. Product identifier

Product Name: Vertex® 100SV

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

Recommended use: Flame retardant

Smoke Suppressant

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

2.1. Classification of the substance or mixture

Physical Hazards Not classified

Health Hazards Not classified

Environmental Hazard Not classified

2.2. Label elements

Symbols/Pictograms None

Signal Word None

Safety Data Sheet

Vertex® 100SV

Issue Date 15/Mar/2023 **Revision Number** 1.3.1 Print Date 31/May/2023

Page 2 of 11

Hazard Statements None

Precautionary Statements

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

Employ good industrial hygiene practice

Do not breathe dust

Wear protective gloves/protective clothing/eye protection/face protection

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact Response

> lenses, if present and easy to do. Continue rinsing IF ON SKIN: Wash with plenty of soap and water

Storage Store away from incompatible materials

Keep in a dry place

Disposal Disposal should be in accordance with applicable regional, national and local laws

and regulations

Hazards not otherwise classified None known.

(HNOC)

SECTION 3: Composition/information on ingredients

| Chemical Name | CAS Number | TSCA: United States | Canada (DSL) | Mexico | EU REACH registration number | OSHA Regulatory Status | WHMIS | Weight-% |
|---------------------|------------|------------------------|--------------|--------|------------------------------|------------------------------|-------|----------|
| Magnesium Hydroxide | 1309-42-8 | Α | Υ | Υ | 01-211948875 | Not regulated | | >98 |
| Surface Treated | | | | | 6-18-0040 | | | |

Legend

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

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.

Skin Contact Wash with plenty of soap and water.

Safety Data Sheet

Vertex® 100SV

Issue Date 15/Mar/2023 Revision Number 1.3.1

Print Date 31/May/2023 Page 3 of 11

Ingestion Rinse mouth thoroughly with water.

Inhalation Do not breathe dust. IF INHALED: Remove 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

medical attention and special

4.3. Indication of any immediate 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.

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can

SECTION 5: Firefighting measures

cause mechanical irritation or drying of the skin.

5.1. Extinguishing media

treatment needed

Suitable Extinguishing

Media

Water spray (fog). Dry chemical. Foam. Carbon dioxide (CO2).

Unsuitable Extinguishing Media

None known.

5.2. Special hazards arising from the substance or mixture

None known.

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. No special fire protection measures are necessary. Standard procedure for chemical fires.

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.

Safety Data Sheet

Vertex® 100SV

Issue Date 15/Mar/2023 Revision Number 1.3.1
Print Date 31/May/2023 Page 4 of 11

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 Large Spill: Do not dry sweep dust. Wet dust

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

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. 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.

7.2. 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 Surface Treated

OSHA TWA: 15 mg/m³ total dust 5 mg/m³ respirable

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

3 mg/m³ (respirable fraction)

NIOSH TWA 15 mg/m³ (total dust)

Canada Not established

PNEC (Predicted No Effect

Concentration)

No information available

DNEL (Derived No Effect Level) No information available

Biological Limit Values No information available

8.2. Exposure controls

Safety Data Sheet

Vertex® 100SV

Issue Date 15/Mar/2023 Revision Number 1.3.1

Print Date 31/May/2023 Page 5 of 11

Engineering Measures Provide a good standard of controlled ventilation (5 to 10 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 In case of inadequate ventilation wear respiratory protection.

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

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 Not applicable

range

Boiling PointNot applicableFreezing PointNot applicableFlash PointNon-combustibleEvaporation RateNot applicableFlammability (solid, gas)Not applicable

Upper flammability limit: -Lower flammability limit: --

Vapor PressureNot applicableVapor DensityNot applicableVapor DensityNot applicableDensity2.4 g/cm3, 20°CRelative Density2.4 g/cm3, 20° CWater Solubility11.7 mg/l , 25° C

Solubility in other solventsNo information available

Partition coefficientNot applicableAutoignition TemperatureNot applicable

Safety Data Sheet

Vertex® 100SV

Issue Date 15/Mar/2023 **Revision Number** 1.3.1 Print Date 31/May/2023

Page 6 of 11

Decomposition Temperature 626 °F (330° C)

Viscosity No information available.

Kinematic viscosity Not applicable **Oxidizing Properties** Not applicable

Particle Size No information available

Not applicable **VOC Content (%)**

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 Strong acids

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.

11.1. Information on toxicological effects

Magnesium Hydroxide Surface Treated

Oral LD50 8500 mg/kg Rat

Based on available data, the classification criteria are not met **Acute Toxicity**

Chronic Toxicity Based on available data, the classification criteria are not met.

Based on available data, the classification criteria are not met **Respiratory Sensitization**

Safety Data Sheet

Vertex® 100SV

Issue Date 15/Mar/2023 Revision Number 1.3.1
Print Date 31/May/2023 Page 7 of 11

Serious eye damage/eye

irritation

Based on available data, the classification criteria are not met

Skin Corrosion/Irritation Prolonged or repeated contact may dry skin and cause irritation

Skin Sensitization 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

Mixture

Information on Likely Routes of Exposure

Inhalation Do not breathe dust

May cause irritation of respiratory tract

Ingestion Ingestion is not a likely route of exposure

Skin Contact with dust can cause mechanical irritation or drying of the skin

Eyes Dust contact with the eyes can lead to mechanical irritation

Aspiration hazard Not an expected route of exposure.

Symptoms related to the physical, chemical and toxicological characteristics

Irritant effects. Coughing. Discomfort in the chest. Shortness of breath.

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

Safety Data Sheet

Vertex® 100SV

Issue Date 15/Mar/2023 **Revision Number** 1.3.1 Print Date 31/May/2023

Page 8 of 11

12.2. Persistence and

degradability

Not readily biodegradable.

12.3. Bioaccumulative potential None.

Partition coefficient Not applicable

Bioconcentration factor

(BCF)

No data available.

12.4. Mobility in soil None.

12.5. Results of PBT and vPvB

assessment

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

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

European Waste Catalog 060299

5209 WGK: nwg WGK Classification (AwSV)

SECTION 14: Transport information

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

TDG -Canada Not regulated DOT Not regulated ADR Not regulated RID Not regulated Not regulated ADN

Safety Data Sheet

Vertex® 100SV

Issue Date 15/Mar/2023 Revision Number 1.3.1

Print Date 31/May/2023 Page 9 of 11

IATA Not regulated (per IATA 55th Edition)

IMDG/IMO Not regulated ICAO Not regulated

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 Not applicable

usei

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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 Surface Treated | 1309-42-8 | | 01-211948 8756-18-0 040 | | Y | Y | (1)-386 (ENCS) (ISHL) | KE-22716 | Υ | Y | Y | Υ . | A |

Legend

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

US Federal Regulations

EPA

CERCLA

Not regulated

SARA 313

None

SARA 302

Not listed

SARA 304

Not listed

Safety Data Sheet

Vertex® 100SV

Issue Date 15/Mar/2023 Revision Number 1.3.1
Print Date 31/May/2023 Page 10 of 11

SARA 311/312 Hazardous Categorization

No

U.S. State Right-to-Know Regulations

| Chemical N | lame | CAS Number | California Proposition 65 | Massachusetts | Minnesota | New Jersey | Pennsylvania |
|-----------------------------|------|------------|------------------------------|---------------|-----------|------------|--------------|
| Magnesium Hy Surface Tre | | 1309-42-8 | N | N | N | N | N |

Legend Y: Listed; N: Not Listed

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 Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

| $\Delta E \Delta T$ | | - | | 4 |
|---------------------|----|-----------|-----------|-----------|
| C-L/-I | I/ | 16./1+ | har in | formation |
| 3E. | | I N () I | 1161 1111 | |
| | | | | |

Prepared by Huber Engineered Materials (HEM) Global Regulatory Affairs

regulatory.affairs@huber.com

 Issue Date
 15/Mar/2023

 Print Date
 31/May/2023

Revision Number 1.3.1

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.

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)

Safety Data Sheet

Vertex® 100SV

Issue Date 15/Mar/2023 Print Date 31/May/2023 Revision Number 1.3.1 Page 11 of 11

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)

SCBA (Self-Contained Breathing Apparatus) Positive Pressure

GHS (Globally Harmonized System)

SARA (Superfund Amendments and Reauthorization Act of 1986)

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