

#### Zerogen® 100 SP

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 COMMISSION REGULATION (EU) No. 2015/830

Issue Date: 02/Mar/2018 Revision Number: 1.3

**Print Date:** 02/Mar/2018 **Page 1 of 10** 

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

1.1. Product identifier

Product Name: Zerogen® 100 SP

Chemical Name Magnesium Hydroxide Surface Treated

Chemical Name	CAS Number	EC No	REACH registration number	(CLP) Regulation (EC 1272/2008)	TSCA: United States	Weight-%	
Magnesium Hydroxide	1309-42-8	215-170-3	01-2119488756- 18-0040	Not classified	Y	99	
Surface Treatment		Proprietary		Not classified	Y	0.4 - 0.6	
Surface treatment		*		Not classified	Y	0.2 - 0.7	

#### 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: MARTINSWERK GmbH

Kölner Strasse 110 50127 Bergheim

Germany: +49-2271-90.22.78 Fax:: +49-2271-90.27.17

E-mail hubermaterials@huber.com

1.4. Emergency telephone

number

CHEMTREC: +1 800 424 9300 or International +1 703 527 3887

Poison control center phone

**number** Information Service)

National Anti-Poison Center UK: +44 844 892 0111 (National Poisons

### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

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

Zerogen® 100 SP

Issue Date: 02/Mar/2018 **Revision Number: 1.3** Print Date: 02/Mar/2018

Page 2 of 10

Hazards identification

Not classified **Physical Hazard** 

**Health Hazards** Not classified

Not classified **Environmental Hazard** 

2.2. Label elements

Symbols/Pictograms None

Signal Word None

**Hazard Statements** None

**Precautionary Statements** 

Employ good industrial hygiene practice Prevention

Wash hands thoroughly after handling

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** 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.

No information available. 2.3. Other hazards

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

3.1. Substances Not applicable

3.2. Mixtures Mixture

Chemical Name	CAS Number	EC No	REACH registration number	(CLP) Regulation (EC 1272/2008)	TSCA: United States	Weight-%
Magnesium Hydroxide	1309-42-8	215-170-3	01-2119488756- 18-0040	Not classified	 Y	99
Surface Treatment		Proprietary		Not classified	 Y	0.4 - 0.6
Surface treatment		*		Not classified	 Y	0.2 - 0.7

# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

### Safety Data Sheet Zerogen® 100 SP

Issue Date: 02/Mar/2018 **Revision Number: 1.3** 

Print Date: 02/Mar/2018 Page 3 of 10

**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.

In case of eye contact, remove contact lens and rinse immediately with plenty of **Eye Contact** 

water, also under the eyelids, for at least 15 minutes.

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

Do not breathe dust. IF INHALED: Remove to fresh air and keep at rest in a Inhalation

position comfortable for breathing.

Rinse mouth thoroughly with water. Ingestion

**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.

medical attention and special

treatment needed

**4.3. Indication of any immediate** 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

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.

### Safety Data Sheet Zerogen® 100 SP

**Revision Number: 1.3** 

Issue Date: 02/Mar/2018 Print Date: 02/Mar/2018 Page 4 of 10

### **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.

Keep unauthorized personnel away. Use personal protection recommended in For emergency responders

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**

#### 8.1. Control parameters

#### Occupational exposure limits

Magnesium Hydroxide

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

> 3 mg/m³ (respirable fraction) 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)

Recommended monitoring

procedures

**OSHA** 

Refer also to national guidance documents for information on currently

recommended monitoring procedures

### Safety Data Sheet Zerogen® 100 SP

Issue Date: 02/Mar/2018 **Revision Number: 1.3** Print Date: 02/Mar/2018

Page 5 of 10

None **Biological Limit Values:** 

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).

Wear suitable protective clothing. **Skin and Body Protection** 

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.

No information available **Hygiene Measures** 

**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:

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

**Upper flammability limit:** Lower flammability limit:

**Vapor Pressure** Not applicable **Vapor Density** Not applicable

**Relative Density** 

### Safety Data Sheet Zerogen® 100 SP

Issue Date: 02/Mar/2018 **Revision Number: 1.3** Print Date: 02/Mar/2018

Page 6 of 10

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

Solubility in other solvents

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

**Specific Gravity** 2.4 g/cm3, 20° C

# **SECTION 10: Stability and reactivity**

Stable under normal conditions 10.1. Reactivity

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 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 Do not breathe dust

Inhalation of dust in high concentration may cause irritation of respiratory system

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

Dust contact with the eyes can lead to mechanical irritation Eyes

Ingestion Ingestion is not a likely route of exposure

Not an expected route of exposure. **Aspiration hazard** 

11.1. Information on toxicological effects

Magnesium Hydroxide

Oral LD50 8500 mg/kg Rat

### Safety Data Sheet Zerogen® 100 SP

Issue Date: 02/Mar/2018 **Revision Number: 1.3** 

Print Date: 02/Mar/2018 Page 7 of 10

# **SECTION 12: Ecological information**

12.1. Ecotoxicity Not considered to be harmful to aquatic life.

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 applicable

**Bioconcentration factor** 

(BCF)

No data available.

No data available. 12.4. Mobility in soil

12.5. Results of PBT and vPvB

assessment

No data available.

No information available 12.6. Other adverse effects

# **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

**European Waste Catalog** 

060299

WGK Classification (VwVwS) 5209. WGK: nwg

# **SECTION 14: Transport information**

Zerogen® 100 SP

Issue Date: 02/Mar/2018 **Revision Number: 1.3** Print Date: 02/Mar/2018

Page 8 of 10

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

**ADR** Not regulated RID Not regulated Not regulated **ADN IATA** Not regulated IMDG/IMO Not regulated 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**

#### 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	ENCS:(1)- 386 ISHL:(1)-3 86	KE-22716	Y	Y	Y	Υ	Y
Surface Treatment		Proprietar y		Present	Present (DSL)	Present	(2)-2066 (ENCS)	KE-13330		Present	Present	Present	Y
Surface treatment		*		Y	Y	Y	Y	Y	Y	Y	Y	Υ	Y

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

#### **National Regulations**

Germany

Magnesium Hydroxide

WGK Classification (VwVwS) 5209. WGK: nwg

Zerogen® 100 SP

Issue Date: 02/Mar/2018 Revision Number: 1.3 Print Date: 02/Mar/2018

Page 9 of 10

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

Reason for Revision This SDS has been revised in the following section(s) 1, 3, 8

This safety data sheet complies with the requirements of Regulation (EC) No.

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Issue Date: 02/Mar/2018 02/Mar/2018 Print Date:

**Revision Number:** 1.3

Huber Engineered Materials Global Regulatory Affairs Prepared by

email: regulatory.affairs@huber.com.

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

Labeling

None Symbols/Pictograms

Signal Word None

**Hazard Statements** None

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

International Agency for Research on Cancer (IARC) Abbreviations and acronyms

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

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

# Safety Data Sheet

Zerogen® 100 SP

Issue Date: 02/Mar/2018

Print Date: 02/Mar/2018

Revision Number: 1.3

Page 10 of 10

in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**