

Zerogen® 100 SP

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

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

1.1. Product identifier

Product Name:

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**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	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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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. 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

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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.

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.

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### **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	Keen container tightly closed and dry

**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	
ACGIH	TLV-TWA: 8-hr : 10 mg/m <sup>3</sup> (total dust)
	3 mg/m <sup>3</sup> (respirable fraction)
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)
Recommended monitoring procedures	Refer also to national guidance documents for information on currently recommended monitoring procedures

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Biological Limit Values:	None
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.
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)
Freezing Point	Not applicable
Flash Point:	Non-combustible.
Evaporation Rate	Not applicable.
Flammability (solid, gas)	Not applicable
Upper flammability limit:	
Lower flammability limit:	
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Relative Density	

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Water Solubility Solubility in other solvents	11.7 mg/l , 25° C				
Partition coefficient Autoignition Temperature Decomposition Temperature	Not applicable Not applicable 626 °F (330° C)				
Specific Gravity	2.4 g/cm3, 20° 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 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.			
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			
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 toxicological effects				
Magnesium Hydroxide				

Magnesium Hydroxide	
Oral LD50	8500 mg/kg Rat

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### **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.
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
Magnesium Hydroxide European Waste Catalog	060299

WGK Classification (VwVwS) 5209. WGK: nwg

### **SECTION 14: Transport information**

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#### 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

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		ENCS:(1)- 386 ISHL:(1)-3 86	KE-22716	Y	Y	Y	Y	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	Y	Y

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

#### **National Regulations**

#### <u>Germany</u>

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# **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. 1907/2006 & COMMISSION REGULATION (EU) No. 2015/830
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Prepared by	Huber Engineered Materials Global Regulatory Affairs email: regulatory.affairs@huber.com.
(CLP) Regulation (EC 1272/2008	3) 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	International Agency for Research on Cancer (IARC) 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

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

End of Safety Data Sheet