



#### Zerogen® 50 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** 

Mixture

Chemical Name	CAS Number	EC No	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 UseFlame retardant Smoke suppressant1.3. Details of the supplier of the safety data sheetE-mailhubermaterials@huber.com1.4. Emergency telephone<br/>numberCHEMTREC: +1 800 424 9300 or International +1 703 527 3887<br/>EU Phone: +358 207 913 500 (J.M. Huber Finland Oy)Poison control center phone<br/>numberNational Anti-Poison Center UK: +44 844 892 0111 (National Poisons<br/>Information Service)

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

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

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

Hazards identification Physical Hazard	Not classified
Health Hazards	Not classified
Environmental Hazard	Not classified

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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	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**

#### 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.

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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.

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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
	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/m³ TWA
OSHA	10 mg/m <sup>3</sup>
NIOSH	

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

Biological Limit Values: None

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

Predicted No Effect Concentration (PNEC) No information available

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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
	in case of insumolent 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

Physical State ColorSolid PowderColorWhiteOdorOdorlessOdor ThresholdNo information availablepH:8.4-10.2 (5% water suspension)Melting Point / Melting RangeNot applicableInitial boiling point and boiling rangeNot applicableFreezing PointNot applicableFlash Point:Non-combustible.Evaporation RateNot applicableFlammability (solid, gas)Not applicable
OdorOdorlessOdor ThresholdNo information availablepH:8.4-10.2 (5% water suspension)Melting Point / Melting RangeNot applicableInitial boiling point and boilingNot applicablerangeFreezing PointNot applicableFlash Point:Non-combustible.Evaporation RateNot applicable.
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Flash Point:Non-combustible.Evaporation RateNot applicable.
<b>Evaporation Rate</b> 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
Relative Density2.4 g/cm3, 20° C
Water Solubility 11.7 mg/l , 25° C
Partition coefficient Not applicable
Autoignition Temperature Not applicable

### **Safety Data Sheet**

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Decomposition Temperature Viscosity Specific Gravity VOC Content (%) 626 °F (330° C) Not applicable. 2.4 g/cm3, 20° C 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	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 may cause irritation of the 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 toxicologic	al effects				

Acute Toxicity	Not classified
Chronic Toxicity	Not classified.

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<b>Respiratory Sensitization</b>	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.

# **SECTION 12: Ecological information**

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

#### Magnesium hydroxide, surface treated WGK Classification (AwSV) 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**

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#### 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
ΙΑΤΑ	Not regulated
IMDG/IMO	Not regulated
ICAO	Not regulated

14.1. UN number	None
	NI

- 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**

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#### **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, surface treated	Proprietar y Magnesiu m hydroxide CAS: 1309-42-8		01-211948 8756-18-0 040		Y	Y	Y	Y		-	Y	Y	A

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

#### Magnesium hydroxide, surface treated

WGK Classification (AwSV) 5209. WGK: nwg

#### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has been carried out

# **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. 2015/830
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Prepared by	Huber Engineered Materials Global Regulatory Affairs email: regulatory.affairs@huber.com.
(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	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)

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

End of Safety Data Sheet