

**MAGNIFIN® H-5A; MAGNIFIN® H-10A**

Globally Harmonized System (GHS)

Issue Date: 22/Oct/2020

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Page 1 of 9

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier****Product Name:** MAGNIFIN® H-5A; MAGNIFIN® H-10A**Pure substance/mixture** Mixture**Magnesium hydroxide****CAS Number** 1309-42-8**Weight-%** >=97**Surface modified magnesium hydroxide with substituted silane****CAS Number** Proprietary**Weight-%** 1-2**1.2. Relevant identified uses of the substance or mixture and uses advised against****Recommended Use** Additive : Flame retardant**1.3. Details of the supplier of the safety data sheet****Company:** MARTINSWERK GmbH  
Kölner Strasse 110  
50127 Bergheim  
Germany  
Tel. : +49-2271-90.22.78  
Fax. : +49-2271-90.27.17**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****GHS Classification** Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)**Hazards identification****Physical Hazard** Not classified

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# Safety Data Sheet

MAGNIFIN® H-5A; MAGNIFIN® H-10A

Issue Date: 22/Oct/2020  
Print Date: 20/Jan/2021

Revision Number: 1.3  
Page 2 of 9

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  
Do not breathe dust

Response IF ON SKIN: Wash with plenty of soap and water  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Storage Keep in a dry place.

Disposal Dispose of contents/containers in accordance with local regulations. See Section 13: DISPOSAL CONSIDERATIONS.

2.3. Other hazards No information available.

## SECTION 3: Composition/information on ingredients

Pure substance/mixture Mixture

Chemical Name	CAS Number	TSCA: United States	EC No	REACH registratio n number	GHS Classificatio n	Weight-%
Magnesium hydroxide	1309-42-8	A	215-170-3	01-211948 8756-18-0 000.	Not classified	>=97
Surface modified magnesium hydroxide with substituted silane	Proprietary	A	Proprietary	--.	Not classified	1-2

## 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.

# Safety Data Sheet

MAGNIFIN® H-5A; MAGNIFIN® H-10A

Issue Date: 22/Oct/2020  
Print Date: 20/Jan/2021

Revision Number: 1.3  
Page 3 of 9

<b>Eye Contact</b>	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
<b>Skin Contact</b>	Wash with plenty of soap and water.
<b>Ingestion</b>	Rinse mouth thoroughly with water.
<b>Inhalation</b>	Do not breathe dust. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.
<b>4.2. Most important symptoms and effects, both acute and delayed</b>	Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin.
<b>4.3. Indication of any immediate medical attention and special treatment needed</b>	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

<b>5.1. Extinguishing media</b>	
<b>Suitable Extinguishing Media</b>	Use extinguishing agent suitable for type of surrounding fire. Water spray (fog). Dry chemical. Foam. Carbon dioxide (CO2).
<b>Unsuitable Extinguishing Media</b>	Do not use water jetstream.
<b>5.2. Special hazards arising from the substance or mixture</b>	Non-combustible.
<b>5.3. Advice for firefighters</b>	
<b>Special protective equipment for firefighters</b>	Wear a self-contained breathing apparatus and chemical protective clothing.
<b>Fire-fighting measures</b>	Water mist may be used to cool closed containers.

## SECTION 6: Accidental release measures

<b>6.1. Personal precautions, protective equipment and emergency procedures</b>	Keep unauthorized personnel away. Use personal protection recommended in Section 8.
<b>For non-emergency personnel</b>	Keep unauthorized personnel away.

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## Safety Data Sheet

MAGNIFIN® H-5A; MAGNIFIN® H-10A

Issue Date: 22/Oct/2020  
Print Date: 20/Jan/2021

Revision Number: 1.3  
Page 4 of 9

**For emergency responders**

Keep unauthorized personnel away. Use personal protection recommended in Section 8.

**6.2. Environmental precautions**

Avoid runoff to waterways and sewers. Dispose of in accordance with federal, state and local regulations.

**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**

Minimize dust generation and accumulation. Ensure adequate ventilation. Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety practice.

**7.2. Conditions for safe storage, including any incompatibilities**

Keep container tightly closed and dry. Store away from incompatible materials. See section 10.

## SECTION 8: Exposure controls/personal protection

**8.1. Control parameters**

**Occupational exposure limits**

**Magnesium hydroxide**

ACGIH  
OSHA

STEL: Not established  
TWA: Not established

**Biological Limit Values:**

None

**Recommended monitoring procedures**

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

**Derived No Effect Level (DNEL)**

No information available

**Predicted No Effect Concentration (PNEC)**

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

# Safety Data Sheet

## MAGNIFIN® H-5A; MAGNIFIN® H-10A

Issue Date: 22/Oct/2020  
Print Date: 20/Jan/2021

Revision Number: 1.3  
Page 5 of 9

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

<b>Eye/Face Protection</b>	Wear safety glasses with side shields (or goggles).
<b>Skin and Body Protection</b>	Wear suitable protective clothing.
<b>Hand Protection</b>	Wear suitable gloves.
<b>Respiratory Protection</b>	In case of inadequate ventilation wear respiratory protection.

**Thermal hazards** Wear suitable protective clothing.

**Hygiene Measures** No information available.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Physical State</b>	Solid. Powder.
<b>Color</b>	White
<b>Odor</b>	Odorless
<b>Odor Threshold</b>	No information available
<b>pH:</b>	+/- 10 (10% H <sub>2</sub> O)
<b>Melting Point / Melting Range</b>	Not applicable
<b>Boiling Point</b>	Not applicable
<b>Flash Point:</b>	Not applicable Product/Substance is inorganic
<b>Evaporation Rate</b>	Not applicable
<b>Flammability (solid, gas)</b>	Not applicable
<b>Vapor Pressure</b>	Not applicable
<b>Vapor Density</b>	Not applicable
<b>Solubility in other solvents</b>	No data available
<b>Water Solubility</b>	Insoluble
<b>Partition coefficient</b>	Not applicable Product/Substance is inorganic
<b>Autoignition Temperature</b>	Not applicable

Issue Date: 22/Oct/2020  
Print Date: 20/Jan/2021

Revision Number: 1.3  
Page 6 of 9

**Oxidizing Properties** None  
**Decomposition Temperature** > 320 °C

## SECTION 10: Stability and reactivity

**10.1. Reactivity** None  
**10.2. Chemical stability** Stable under normal conditions  
**10.3. Possibility of hazardous reactions** No specific hazard known  
**10.4. Conditions to avoid** Decomposition Temperature. MgO, H<sub>2</sub>O.  
**10.5. Incompatible materials** Strong oxidizing agents.  
**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

**Aspiration hazard** Based on available data, the classification criteria are not met.

### 11.1. Information on toxicological effects

#### Magnesium hydroxide

**Oral LD50** > 2000 mg/kg mg/kg Rat  
**Inhalation LC50** > 2.1 mg/L 4- hours  
**Chronic Effects** NOAEL (No observed adverse effect level) >1000 mg/kg bw/day  
**Serious eye damage/eye irritation** Rabbit : Non-irritant  
Dust may cause mechanical irritation to eyes  
**Skin Corrosion/Irritation** in vitro : Non-irritating to the skin  
Repeated exposure may cause skin dryness or cracking  
**Reproductive Toxicity** Not classified  
NOAEL (No observed adverse effect level) 1000 mg/kg bw/day

#### Surface modified magnesium hydroxide with substituted silane

**Oral LD50** 8 mL/kg Rat

**Specific target organ toxicity - Single exposure** No information available.

**Specific target organ toxicity - Repeated exposure** No information available.

## SECTION 12: Ecological information

### 12.1. Ecotoxicity

#### **Magnesium hydroxide - 1309-42-8**

96-Hour LC50	776 mg/l Fish
72-Hour EC50	> 100 mg/L Algae
48-Hour EC50	170.86 mg/l Daphnia Magna (Water Flea)

**WGK Classification (AwSV)** 5209. WGK: nwg

#### **Surface modified magnesium hydroxide with substituted silane -**

**WGK Classification (AwSV)** WGK:1

**12.2. Persistence and degradability** Readily biodegradable.

**12.3. Bioaccumulative potential** No data available.

**Partition coefficient** Not applicable. Product/Substance is inorganic.

**Bioconcentration factor (BCF)** Not available.

**12.4. Mobility in soil** No data available.

**12.5. Results of PBT and vPvB assessment** This substance does not meet the criteria for classification as PBT or vPvB.

**12.6. Other adverse effects** None known

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Contaminated Packaging** 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

**Disposal Methods** Dispose of waste product or used containers according to local regulations

## SECTION 14: Transport information

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

HUBER

# Safety Data Sheet

MAGNIFIN® H-5A; MAGNIFIN® H-10A

Issue Date: 22/Oct/2020  
Print Date: 20/Jan/2021

Revision Number: 1.3  
Page 8 of 9

DOT Not regulated  
ADR Not regulated  
RID Not regulated  
IATA 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 registration number	Australia (AICS)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	New Zealand	Philippines (PICCS)	Taiwan	TSCA: United States
Magnesium hydroxide	1309-42-8	215-170-3	01-211948875 6-18-0000	Y	Y	Y	(1)-386 ENCS; ISHL	KE-22716	Y	Y	Y	Y	A
Surface modified magnesium hydroxide with substituted silane	Proprietary	Proprietary	--	Y	Y	Y	Y	Y	N	Y	Y	Y	A

#### Legend

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

## SECTION 16: Other information



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## Safety Data Sheet

MAGNIFIN® H-5A; MAGNIFIN® H-10A

Issue Date: 22/Oct/2020  
Print Date: 20/Jan/2021

Revision Number: 1.3  
Page 9 of 9

**Prepared by** Huber Engineered Materials Global Regulatory Affairs  
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**Reason for Revision** Globally Harmonized System (GHS).

**GHS Classification** This product is not classified as hazardous according to the UN GHS guideline and labeling is not required

### 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  
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA)  
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 in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet**