



HUBER | MARTINSWERK

Safety Data Sheet

MAGNIFIN® H-5A; MAGNIFIN® H-10A

Globally Harmonized System (GHS)

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

Revision Number: 1.3

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

1.1. Product identifier

Product Name: MAGNIFIN® H-5A; MAGNIFIN® H-10A
Chemical Name Magnesium Hydroxide (surface modified)
Pure substance/mixture Mixture

Chemical Name	CAS Number	REACH registration number	TSCA: United States	GHS Classification	Weight-%
Magnesium hydroxide	1309-42-8	01-2119488756-18-0000	A	Not classified.	>=97
Surface modified magnesium hydroxide with substituted silane	Proprietary	--	A	Not classified.	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 This product is not classified as hazardous according to the UN GHS guideline

PAGE HEADER-HEM

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 2 of 10

and labeling is not required

Hazards identification

Physical Hazard	Not classified.
Health Hazards	Not classified
Environmental Hazard	Not classified.

2.2. Label elements

Symbols/Pictograms	None
Signal Word	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	REACH registration number	GHS Classification	Weight-%
Magnesium hydroxide	1309-42-8	01-2119488756-18-0000	Not classified.	>=97
Surface modified magnesium hydroxide with substituted silane	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.
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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 3 of 10

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.
Personal Protective Equipment For First Aid Responders	Wear suitable protective clothing.
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

Do not use water jetstream.

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.

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 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.

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, including any incompatibilities Keep container tightly closed and dry
Store away from incompatible materials

SECTION 8: Exposure controls/personal protection

Exposure Limits

Provide adequate ventilation as well as local exhaust at critical locations

Magnesium hydroxide

ACGIH

STEL: Not established

OSHA

TWA: Not established

China

Not Established

Japan

2 mg/m³ (Class 3 (Inorganic and organic dusts), respirable dust) 8 mg/m³ (Class 3 (Inorganic and organic dusts), total dust)

Korea

TWA: Not established

Taiwan

JSOH TWA: 2 mg/m³ (Class 3 (Inorganic and organic dusts), respirable dust)
8 mg/m³ (Class 3 (Inorganic and organic dusts), total dust)

Engineering Measures

Do not handle until all safety precautions have been read and understood
Ensure adequate ventilation, especially in confined areas

PAGE HEADER-HEM

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 5 of 10

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 goggles with side protection
Skin and Body Protection	Wear suitable protective clothing
Hand Protection	Protective gloves
Respiratory Protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice

Environmental Exposure Controls	Dispose of in accordance with local regulations
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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:	+/- 10 (10% H ₂ O)
Melting point / Freezing point	Not applicable Decomposes at > 320 °C
Initial boiling point and boiling range	Not applicable
Flash Point:	Not applicable. Product/Substance is inorganic.
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	2.4 g/cm ³ , 20° C
Water Solubility	Insoluble
Solubility in other solvents	No data available
Partition coefficient	Not applicable Product/Substance is inorganic
Autoignition Temperature	Not applicable
Decomposition Temperature	> 320 °C
Kinematic viscosity	Not applicable : Solid
Dynamic viscosity	Not applicable : Solid
Oxidizing Properties	None

9.2. Other information

No data available

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 6 of 10

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	Decomposition Temperature MgO, H ₂ O
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.
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Information on Likely Routes of Exposure

Inhalation	Avoid inhalation of the product
Skin	Prolonged or repeated contact may dry skin and cause irritation
Eyes	Dust contact with the eyes can lead to mechanical irritation
Ingestion	Ingestion is not a likely route 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

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 7 of 10

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

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 No data available.

12.3. Bioaccumulative potential No data available.

Partition coefficient Not applicable Product/Substance is inorganic

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

PAGE HEADER-HEM

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 10

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

WGK Classification (AwSV) 5209. WGK: nwg

Surface modified magnesium hydroxide with substituted silane

WGK Classification (AwSV) WGK:1

SECTION 14: Transport information

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

TDG -Canada	Not regulated
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

PAGE HEADER-HEM

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 9 of 10

Pure substance/mixture

Mixture

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	01-211948 8756-18-0 000	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

Germany

Magnesium hydroxide

WGK Classification (AwSV) 5209. WGK: nwg

Surface modified magnesium hydroxide with substituted silane

WGK Classification (AwSV) WGK:1

15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance

SECTION 16: Other information

Prepared by

CP Kelco Global Regulatory Affairs
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GHS Classification

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

Symbols/Pictograms

None

Signal Word

None

Hazard Statements

None

Hazards identification

Physical Hazard

Not classified

Health Hazards

Not classified

Environmental Hazard

Not classified

Abbreviations and acronyms

International Agency for Research on Cancer (IARC)
International Air Transport Association (IATA)

PAGE HEADER-HEM

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 10 of 10

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