Safety Data Sheet



MAGNIFIN® H-5A; MAGNIFIN® H-10A

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 COMMISSION REGULATION (EU) No. 2020/878

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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	EC No	EU REACH registration number	(CLP) Regulation (EC 1272/2008)	Weight-%
Magnesium hydroxide	1309-42-8	215-170-3	01-2119488756-18- 0000	Not classified	>=97
Surface modified magnesium hydroxide with substituted silane	Proprietary	Proprietary		Not classified	1-2

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use	Additive : Flame retardant
Industrial use	Production substance Production of plastics and rubber compounds Formulation flame retardant preparation Compounds used in transport industry Compounds used in electrical application Compounds used in building and construction Use in coatings, inks, paints and roofing Recycling plastics pH Regulating agent Production of corrosion inhibitors Use as corrosion inhibitor of gas turbines and boilers Production of Magnesium compounds Manufacture and formulation of pharmaceutical preparations PVC stabilizer Use in cleaning agents Use in oil field operations Use in netal working fluids Use in metal working fluids Use in blowing agents Use in blowing agents Use in functional fluids Use in functional fluids Use in agrochemicals Use in water treatment chemicals Use in mining chemicals

Issue Date 15/Feb/2023 Revision Number 1.3.1 Print Date 15/Feb/2023 Page 2 of 12 Deacidification agent for paper Polymer processing Abrasive for glass industry, ceramics and stones Professional use Use in coatings, inks, paints and roofing Use in agrochemicals Use in cleaning agents Use in metal working fluids Use in propellants Fuels Use in functional fluids **De-icing & anti-icing applications** Road and construction applications Use in explosives Use in water treatment chemicals Polymer processing Use in lubricants Use in binders and release agents Consumer use Cosmetic additive Use in coatings, inks, paints and roofing Use in cleaning agents Use in lubricants Use in propellants Fuels Use in functional fluids **De-icing & anti-icing applications** Use in water treatment chemicals Uses advised against None known. 1.3. Details of the supplier of the safety data sheet www.hubermaterials.com Internet hubermaterials@huber.com E-mail CHEMTREC: +1 800 424 9300 or International +1 703 527 3887 1.4. Emergency telephone number

Poison control center phone
numberNational Anti-Poison Center UK: +44 844 892 0111 (National Poisons
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

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Health Hazards	Not classified
Environmental Hazard	Not classified
2.2. Label elements	
Symbols/Pictograms	None
Signal Word	None
Hazard Statements	This product is not classified as hazardous according to the UN GHS guideline and labeling is not required This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)
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	EU REACH registration number	(CLP) Regulation (EC 1272/2008)	Annex	Weight-%
Magnesium hydroxide	1309-42-8	215-170-3	01-2119488756-18 -0000	Not classified		>=97
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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.
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.

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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	, 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	STEL: Not established
OSHA	TWA: Not established
NIOSH	TWA: Not established
Estonia	1 mg/m ³ total dust
	0.5 mg/m ³ respirable 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

Magnesium hydroxide

agricolari riyaroxiac	
Worker - dermal, short-term -	16.67 mg/kg bw/d
systemic	
Worker - inhalative,	16.67 mg/kg bw/d
long-term - systemic	
Worker - inhalative,	117.54 mg/m ³
short-term - systemic	
Worker - inhalative,	117.54 mg/m ³
long-term - systemic	
Consumer - oral, short-term -	10 mg/kg bw/d
systemic	
Consumer - oral, long-term -	10 mg/kg bw/d
systemic	
Consumer - dermal,	10 mg/kg bw/d
short-term - local and	
systemic	
Consumer - dermal,	10 mg/kg bw/d
long-term - systemic	
Consumer - inhalative,	34.78 mg/m ³
short-term - systemic	
Consumer - inhalative,	34.78 mg/m ³
short-term - systemic	

Magnesium hydroxide

Fresh Water	0.1 mg/l
Marine water	0.01 mg/l
Marine water - intermittent	1 mg/l
Freshwater sediment	0.082 mg/kg dw
Marine sediment	0.0082 mg/kg dw
Soil	0.01912 mg/kg dw
Sewage treatment plant	1 mg/l
Secondary poisoning	66.67 mg/kg food

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.

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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:	+/- 10 (10% H2O)		
Melting point / Freezing point	Not applicable Decomposes at > 320 °C		
Initial boiling point and boiling	Not applicable		
range			
Freezing Point	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		
Vapor Density	Not applicable		
Density	No data available		
Relative Density	2.4 g/cm3, 20° C		
Water Solubility	Insoluble		
Solubility in other solvents	No data available		
Partition coefficient	Not applicable Product/Substance is inorganic		
Autoignition Temperature	Not applicable > 320 °C		
Decomposition Temperature	> 320 C No information available.		
Viscosity Kinematic viscosity	Not applicable : Solid		
Dynamic viscosity	Not applicable : Solid		
Oxidizing Properties	None		
Particle Size	No information available		
VOC Content (%)	Not applicable		

9.2. Other information

9.2.1. Information with regard to physical hazard classes Not applicable

9.2.2. Other safety characteristics Not applicable

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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.
11.1. Information on hazard clas	ses as defined in Regulation (EC) No 1272/2008
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	Rabbit : Non-irritant
irritation	Dust may cause mechanical irritation to eyes
Skin Corrosion/Irritation	in vitro : Non-irritating to the skin
Design describes Testisius	Repeated exposure may cause skin dryness or cracking
Reproductive Toxicity	Not classified
Surface medified meansaium h	NOAEL (No observed adverse effect level) 1000 mg/kg bw/day
Surface modified magnesium hy Oral LD50	
Orai LD50	8 mL/kg Rat
Specific target organ toxicity - Single exposure	No information available.
Specific target organ toxicity - Repeated exposure	No information available.
Information on Likely Routes of	Exposure
Inhalation	Avoid inhalation of the product
Ingestion	Ingestion is not a likely route of exposure

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Skin	Prolonged or repeated contact may dry skin and cause irritation
Eyes	Dust contact with the eyes can lead to mechanical irritation
Aspiration hazard	Based on available data, the classification criteria are not met.

11.2. Information on other hazards

11.2.1. Endocrine disrupting This product does not contain any known or suspected endocrine disruptors **properties**

11.2.2. Other information

Not applicable

SECTION 12: Ecological information

12.1. Toxicity

Magnesium hydroxide 96-Hour LC50 72-Hour EC50 48-Hour EC50 WGK Classification (AwSV) Surface modified magnesium hy WGK Classification (AwSV)	776 mg/l Fish > 100 mg/L Algae 170.86 mg/l Daphnia Magna (Water Flea) 5209. WGK: nwg ydroxide with substituted silane 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. Endocrine disrupting properties	This product does not contain any known or suspected endocrine disruptors

SECTION 13: Disposal considerations

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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 WGK Classification (AwSV) Surface modified magnesium hy	ydroxide 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
ΙΑΤΑ	Not regulated
IMDG/IMO	Not regulated
ICAO	Not regulated

- 14.1. UN number or ID 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. Maritime transport in bulk according to IMO instruments Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

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Pure substance/mixture Mi

Mixture

Chemical Name	CAS Number	EC No	Australia (AIIC)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	Thailand (TECI)		Philippine s (PICCS)	Taiwan	TSCA: United States
Magnesium hydroxide	1309-42-8	215-170-3	Y	Y	Y	(1)-386 ENCS; ISHL	KE-22716	Y	55-1-0134 3	Y	Y	Y	A
Surface modified magnesium hydroxide with substituted silane	Proprietar y	Proprietar y	Y	Y	Y	Y	Y	Ν	55-1-0619 8	Y	Y	Y	A

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

REACH No.

Magnesium hydroxideEU REACH registration number01-2119488756-18-0000Turkish KKDIK pre-registration05-0000192696-66-0000Surface modified magnesium hydroxide with substituted silaneEU REACH registration number--Turkish KKDIK pre-registration05-0000192710-85-0000

Germany

 Magnesium hydroxide

 WGK Classification (AwSV)
 5209. WGK: nwg

 Surface modified magnesium hydroxide with substituted silane
 WGK Classification (AwSV)

15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance

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. 2020/878
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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

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Symbols/Pictograms	None
Signal Word	None
Hazard Statements	This product is not classified as hazardous according to the UN GHS guideline and labeling is not required. This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Training Advice	Do not handle until all safety precautions have been read and understood.
Abbreviations and acronyms	IARC (International Agency for Research on Cancer) IUCLID (International Uniform Chemical Information Database) WHMIS (Workplace Hazardous Materials Information System) OSHA (Occupational Safety and Health Administration of the US Department of Labor) TWA (Time-Weighted Average) CLP (The Classification, Labeling and Packaging of Substances and Mixtures Regulation (EC 1272/2008)) PPE (Personal Protection Equipment) NIOSH (National Institute for Occupational Safety and Health) CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act) RQ (Reportable Quantity) (RQ/% in mixture) STEL (Short Term Exposure Limit) TLV® (Threshold Limit Value) DNEL (Derived No Effect Level) SVHC (Substances of Very High Concern) BOD (Biochemical oxygen demand) ICAO (International Civil Aviation Organization) IMDG (International Maritime Dangerous Goods) ADR (European Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement of Transport Association) IMDG (International Maritime Dangerous Goods) DOT (Department of Transport Association) IMDG (International Maritime Dangerous Goods) DOT (Department of Transport Association) IMDG (International Maritime Dangerous Goods) DOT (Department of Transport Association) SCBA (Self-Contained Breathing Apparatus) Positive Pressure GHS (Globally Harmonized System) TSCA (Toxic Substances Control Act)
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