



# Safety Data Sheet

ADVANCED MATERIALS

**MAGNIFIN® H-5 GV; MAGNIFIN® H-5 HV; MAGNIFIN® H-5 MV; MAGNIFIN® H-10 MV**

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

Issue Date 29/Sep/2022  
Print Date 15/Feb/2023

Revision Number 1.3.1  
Page 1 of 11

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

### 1.1. Product identifier

**Product Name:** MAGNIFIN® H-5 GV; MAGNIFIN® H-5 HV; MAGNIFIN® H-5 MV; MAGNIFIN® H-10 MV  
**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	01-2119488756-18-0040	Not classified	>=97

### 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 lubricants
- Use in metal working fluids
- Use in blowing agents
- Use in binders and release agents
- Fuels
- Use in functional fluids
- Use in agrochemicals
- Use in water treatment chemicals
- Use in mining chemicals
- Deacidification agent for paper
- Polymer processing

Issue Date 29/Sep/2022

Print Date 15/Feb/2023

Revision Number 1.3.1

Page 2 of 11

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

**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

**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

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

#### Hazards identification

**Physical Hazard** Not classified

**Health Hazards** Not classified

HUBER

## Safety Data Sheet

MAGNIFIN® H-5 GV; MAGNIFIN® H-5 HV; MAGNIFIN® H-5 MV; MAGNIFIN® H-10 MV

Issue Date 29/Sep/2022

Print Date 15/Feb/2023

Revision Number 1.3.1

Page 3 of 11

**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	01-2119488756-18-0040	Not classified	--	>=97

## 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.

Issue Date 29/Sep/2022

Print Date 15/Feb/2023

Revision Number 1.3.1

Page 4 of 11

<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>Inhalation</b>	Do not breathe dust. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
<b>Ingestion</b>	Rinse mouth thoroughly with water.
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.
<b>Notes to Physician</b>	Treat symptomatically.
<b>Personal Protective Equipment For First Aid Responders</b>	Wear suitable protective clothing.
<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

### 5.1. Extinguishing media

#### Suitable Extinguishing Media

Use extinguishing agent suitable for type of surrounding fire. Water spray (fog). Dry chemical. Foam. Carbon dioxide (CO<sub>2</sub>).

#### 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.

## 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

### 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

#### Biological Limit Values

None

Issue Date 29/Sep/2022

Print Date 15/Feb/2023

Revision Number 1.3.1

Page 6 of 11

DNEL (Derived No Effect Level)

PNEC (Predicted No Effect Concentration)

PNEC (Predicted No Effect Concentration)

**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.

**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% H<sub>2</sub>O)**Melting point / Freezing point**

Not applicable Decomposes at &gt; 320 °C

**Initial boiling point and boiling range**

Not applicable

**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

Issue Date 29/Sep/2022

Print Date 15/Feb/2023

Revision Number 1.3.1

Page 7 of 11

Vapor Density	Not applicable
Density	No data available
Relative Density	2.4 g/cm <sup>3</sup> , 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
Viscosity	No information available.
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

## 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 < / =0.3% : MgO, H <sub>2</sub> 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 classes as defined in Regulation (EC) No 1272/2008

#### Magnesium Hydroxide

Oral LD50 8500 mg/kg Rat

Issue Date 29/Sep/2022

Print Date 15/Feb/2023

Revision Number 1.3.1

Page 8 of 11

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

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

#### Information on Likely Routes of Exposure

<b>Inhalation</b>	Avoid inhalation of the product
<b>Ingestion</b>	Ingestion is not a likely route of exposure
<b>Skin</b>	Prolonged or repeated contact may dry skin and cause irritation
<b>Eyes</b>	Dust contact with the eyes can lead to mechanical irritation
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.

#### 11.2. Information on other hazards

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

**11.2.2. Other information** Not applicable

## SECTION 12: Ecological information

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

#### Magnesium Hydroxide

**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 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

### 13.1. Waste treatment methods

<b>Disposal Methods</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>Contaminated Packaging</b>	Product residue may remain in empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.
<b>Waste codes</b>	Waste codes should be assigned by the user based on the application for which the product was used

#### Magnesium Hydroxide

<b>European Waste Catalog</b>	060299
<b>WGK Classification (AwSV)</b>	5209 WGK: nwg

## SECTION 14: Transport information

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

<b>TDG -Canada</b>	Not regulated
<b>DOT</b>	Not regulated
<b>ADR</b>	Not regulated
<b>RID</b>	Not regulated
<b>IATA</b>	Not regulated
<b>IMDG/IMO</b>	Not regulated
<b>ICAO</b>	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 user Not applicable
- 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

#### Global Inventories

#### Pure substance/mixture

Mixture

Chemical Name	CAS Number	EC No	Australia (AIC)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	Thailand (TECI)	New Zealand	Philippines (PICCS)	Taiwan	TSCA: United States
Magnesium Hydroxide	1309-42-8	215-170-3	Y	Y	Y	(1)-386 (ENCS) (ISHL)	KE-22716	Y	55-1-01343	Y	Y	Y	A

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

#### Magnesium Hydroxide

EU REACH registration number 01-2119488756-18-0040

Turkish KKDIK pre-registration 05-0000192735-90-0000

Not classified

#### Magnesium Hydroxide

WGK Classification (AwSV) 5209 WGK: nwg

### 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

#### Issue Date

29/Sep/2022

#### Print Date

15/Feb/2023

#### Revision Number

1.3.1

#### 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

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

HUBER

## Safety Data Sheet

MAGNIFIN® H-5 GV; MAGNIFIN® H-5 HV; MAGNIFIN® H-5 MV; MAGNIFIN® H-10 MV

Issue Date 29/Sep/2022

Print Date 15/Feb/2023

Revision Number 1.3.1

Page 11 of 11

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)  
COD (Chemical 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 Rail)  
IATA (International Air Transport Association)  
IMDG (International Maritime Dangerous Goods)  
DOT (Department of Transportation)  
TDG (Transport of Dangerous Goods) Canada  
PNEC (Predicted No Effect Concentration)  
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**