



# Safety Data Sheet

## ADVANCED MATERIALS

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

Japan-JIS Z 7253:2019  
Occupational Safety and Health Act  
GHS (Globally Harmonized System)

Issue Date 29/Sep/2022  
Print Date 29/Sep/2022

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### 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name:</b>	MAGNIFIN® H-5 GV; MAGNIFIN® H-5 HV; MAGNIFIN® H-5 MV; MAGNIFIN® H-10 MV
<b>Chemical Name</b>	Magnesium Hydroxide (surface modified)
<b>Pure substance/mixture</b>	Mixture
<b><u>Magnesium Hydroxide</u></b>	
<b>CAS Number</b>	1309-42-8
<b>Weight-%</b>	>=97
<b>Recommended Use</b>	Additive : Flame retardant
<b>Uses advised against</b>	None known
<b>Company:</b>	MARTINSWERK GmbH Kölner Strasse 110 50127 Bergheim Germany Tel. : +49-2271-90.22.78 Fax. : +49-2271-90.27.17
<b>Internet</b>	<a href="http://www.hubermaterials.com">www.hubermaterials.com</a>
<b>E-mail</b>	<a href="mailto:hubermaterials@huber.com">hubermaterials@huber.com</a>
<b>Emergency Telephone Number</b>	CHEMTREC: +1 800 424 9300 or International +1 703 527 3887 +81 03-3560-7316

### 2. HAZARD IDENTIFICATION

<b>Japan GHS Classification</b>	
<b>Physical Hazards</b>	Not classified
<b>Health Hazard</b>	Not classified
<b>Environmental Hazards</b>	Not classified
<b>GHS label elements</b>	
<b>Symbols/Pictograms</b>	None
<b>Signal Word</b>	None
<b>Hazard statements</b>	Based on available data, the classification criteria are not met
<b>Precautionary Statements</b>	

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<b>Prevention</b>	Do not handle until all safety precautions have been read and understood Employ good industrial hygiene practice Do not breathe dust
<b>Response</b>	IF exposed or concerned: Get medical advice/attention Wash with plenty of soap and water
<b>Storage</b>	Store away from incompatible materials. Keep in a dry place
<b>Disposal</b>	Dispose of contents/container to an approved waste disposal plant

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Pure substance/mixture

Mixture

Chemical Name	CAS Number	Japan	Japan GHS Classification	EU REACH registration number	Weight-%
Magnesium Hydroxide	1309-42-8	(1)-386 (ENCS) (ISHL)	Not classified	01-2119488756-18-00 40	>=97

**4. FIRST AID MEASURES**

<b>If inhaled:</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing
<b>IF ON SKIN:</b>	Wash with plenty of soap and water Take off contaminated clothing and wash before reuse
<b>IF IN EYES:</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 Call a physician if irritation develops and persists
<b>If swallowed:</b>	Rinse mouth thoroughly with water
<b>Self-Protection of the First Aider</b>	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves
<b>Notes to Physician</b>	Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

<b>Suitable Extinguishing Media</b>	Water spray (fog) Foam Dry chemical Carbon dioxide (CO2)
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**Unsuitable Extinguishing Media** Do not use water jetstream

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**Special hazards arising from the substance or mixture** Avoid dust formation

**Fire-fighting measures** In case of fire and/or explosion do not breathe fumes  
Water mist may be used to cool closed containers  
Keep unauthorized personnel away

**Special Protective Equipment for Firefighters** Wear self-contained breathing apparatus and protective suit

### 6. ACCIDENTAL RELEASE MEASURES

**Protective Equipment and Precautions for Firefighters** Avoid dust formation  
Ensure adequate ventilation  
Use personal protection recommended in Section 8  
Avoid contact with eyes and skin. Wear suitable personal protection equipment.  
Keep unauthorized personnel away

**Environmental Precautions** Keep out of drains, sewers, ditches and waterways  
Disposal considerations  
See section 13 for more information

**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 Minimize use of water during clean-up  
Recommended filter type: High efficiency particulate air filter (HEPA filter)

**Other Information** Not applicable

### 7. HANDLING AND STORAGE

#### Handling

**Technical measures** Provide adequate ventilation as well as local exhaust at critical locations  
Ensure adequate ventilation  
Use personal protection equipment  
See section 8 for more information

**Advice on safe handling** Minimize dust generation and accumulation

**Conditions for safe storage, including any incompatibilities** Keep containers tightly closed in a cool, well-ventilated place

**Hygiene Measures** Wash hands thoroughly after handling

#### Storage

**Packaging compatibilities** Keep/store only in original container

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Limits** Provide adequate ventilation as well as local exhaust at critical locations

**Magnesium Hydroxide**  
Japan

Not established

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**Engineering Measures** Ensure adequate ventilation, especially in confined areas

**Personal Protective Equipment**

**Respiratory Protection** In case of inadequate ventilation wear respiratory protection

**Hand protection** For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn

**Eye Protection** Wear safety glasses with side shields (or goggles)

**Skin and Body Protection** Wear suitable protective clothing.  
Chemical resistant apron.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice  
Wash thoroughly after handling  
Avoid contact with eyes and skin  
Do not breathe dust

## 9. 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>Melting Point / Melting Range</b>	No data available
<b>Boiling Point</b>	No data available
<b>Freezing Point</b>	No information available
<b>Autoignition Temperature</b>	Not applicable
<b>Evaporation Rate</b>	Not applicable
<b>Flammability (solid, gas)</b>	Not applicable
<b>Explosive Properties</b>	No data available
<b>Vapor Pressure</b>	Not applicable
<b>Water Solubility</b>	Insoluble
<b>Partition coefficient</b>	No data available
<b>Viscosity</b>	No data available
<b>Specific Gravity</b>	No data available
<b>Oxidizing Properties</b>	None
<b>Decomposition Temperature</b>	> 320 °C
<b>Flash Point</b>	Not applicable. Product/Substance is inorganic.
<b>pH:</b>	+/- 10 (10% H <sub>2</sub> O)
<b>Melting point / Freezing point</b>	Not applicable
<b>Melting point / Freezing point</b>	Decomposes at > 320 °C
<b>Initial boiling point and boiling range</b>	Not applicable
<b>Vapor Density</b>	Not applicable
<b>Relative Density</b>	2.4 g/cm <sup>3</sup> , 20° C
<b>Solubility in other solvents</b>	No data available
<b>Kinematic viscosity</b>	Not applicable : Solid
<b>Dynamic viscosity</b>	Not applicable : Solid
<b>Other information:</b>	No data available

**10. STABILITY AND REACTIVITY**

<b>Reactivity</b>	Stable under normal conditions
<b>Chemical stability</b>	Stable under normal conditions
<b>Possibility of hazardous reactions</b>	None known
<b>Incompatible materials</b>	Strong oxidizing agents
<b>Hazardous decomposition products</b>	None known

**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** 8500 mg/kg Rat

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

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

**12. ECOLOGICAL INFORMATION**

<b>Ecotoxicity</b>	Based on available data, the classification criteria are not met
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulation</b>	No data available.
<b>Mobility in soil</b>	No data available
<b>Hazardous to the ozone layer</b>	No data available

**13. DISPOSAL CONSIDERATIONS**

<b>Disposal</b>	Dispose of in accordance with federal, state and local regulations
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal

## 14. TRANSPORT INFORMATION

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

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

## 15. REGULATORY INFORMATION

- Occupational Safety and Health Act Not regulated
- Poisonous and Deleterious Substances Control Act Not regulated
- Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. Not regulated
- Japanese Pollutant Release and Transfer Register - Class 1 Substance Not regulated
- Ship Safety Law, Dangerous Goods Marine Transport and Storage Rule Not regulated
- Global Inventories
- Pure substance/mixture Mixture

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Chemical Name	CAS Number	EC No	EU REACH registration number	Australia (AIC)	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 8756-18-0 040	Y	Y	Y	(1)-386 (ENCS) (ISHL)	KE-22716	Y	Y	Y	Y	A

**Legend**

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

KECL - Korean Existing and Evaluated Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

TSCA (Toxic Substances Control Act)

DSL (Domestic Substance List)

NDSL (Non-Domestic Substances List)

Japan - ISHL Notifiable Substances

ENCS - Japan Existing and New Chemical Substances

## 16. OTHER INFORMATION

**Prepared by**Huber Engineered Materials Global Regulatory Affairs  
email: regulatory.affairs@huber.com**Reason for Revision**

This SDS complies with the requirements of JIS Z 7250:2010 and JIS Z 7252:2009 (Japan)

**Bibliography**

NITE GHS Classified list

Japan Society for occupational health (2015) recommendation of allowable concentrations, etc.

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value

**Abbreviations and acronyms**

IARC (International Agency for Research on Cancer)

IATA (International Air Transport Association)

IMDG (International Maritime Dangerous Goods)

IUCLID (International Uniform Chemical Information Database)

WHMIS (Workplace Hazardous Materials Information System)

DOT (Department of Transportation)

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)

TDG (Transport of Dangerous Goods) Canada

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)

SCBA (Self-Contained Breathing Apparatus) Positive Pressure

PNEC (Predicted No Effect Concentration)

GHS (Globally Harmonized System)

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TSCA (Toxic Substances Control Act)

### Disclaimer

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**End of Safety Data Sheet**