

**MAGNIFIN® H-5C; MAGNIFIN®H-7C; MAGNIFIN® H-7C2; MAGNIFIN® H-7C3;  
MAGNIFIN®H-10C;**

Japan-JIS Z 7253:2012  
Occupational Safety and Health Act  
Globally Harmonized System (GHS)

Issue Date: 21/Nov/2019  
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## 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name:</b>	MAGNIFIN® H-5C; MAGNIFIN®H-7C; MAGNIFIN® H-7C2; MAGNIFIN® H-7C3; MAGNIFIN®H-10C;
<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>	Flame retardant Additive
<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>	
<b>Prevention</b>	Do not handle until all safety precautions have been read and understood Employ good industrial hygiene practice

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	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	REACH registration number	Weight-%
Magnesium hydroxide	1309-42-8	(1)-386 ENCS; ISHL	Not classified	01-2119488756-18-00 00	>=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

**Special hazards arising from the** Avoid dust formation

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substance or mixture

### 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

TWA: Not established

**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****Appearance:**

<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 / 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>Flash Point:</b>	Not applicable. Product/Substance is inorganic.
<b>Evaporation Rate</b>	Not applicable
<b>Flammability (solid, gas)</b>	Not applicable
<b>Upper flammability limit:</b>	
<b>Lower flammability limit:</b>	
<b>Vapor Pressure</b>	Not applicable
<b>Vapor Density</b>	Not applicable
<b>Relative Density</b>	2.4 g/cm <sup>3</sup> , 20° C
<b>Water Solubility</b>	Insoluble
<b>Solubility in other solvents</b>	No data available
<b>Partition coefficient</b>	Not applicable Product/Substance is inorganic
<b>Autoignition Temperature</b>	Not applicable
<b>Decomposition Temperature</b>	> 320 °C
<b>Kinematic viscosity</b>	Not applicable : Solid
<b>Dynamic viscosity</b>	Not applicable : Solid
<b>Oxidizing Properties</b>	None

**Other information:** No data available

**10. STABILITY AND REACTIVITY**

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

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

## 12. ECOLOGICAL INFORMATION

#### 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)
<b>Ecotoxicity</b>	Based on available data, the classification criteria are not met

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**Persistence and degradability** No data available

**Bioaccumulation** No data available.

**Mobility in soil** No data available

**Hazardous to the ozone layer** No data available

### 13. DISPOSAL CONSIDERATIONS

**Disposal** Dispose of in accordance with federal, state and local regulations

**Contaminated packaging** 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

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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

Chemical Name	CAS Number	EC No	REACH registrati on number	Australia (AICS)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	New Zealand	Philippine s (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

#### 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  
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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 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

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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**