



## ADVANCED MATERIALS

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

GHS (Globally Harmonized System)

Measures on the Management of Toxic Chemical Substances Labelling and Safety Data Sheets. December 11, 2014.

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### Section 1: Identification: Product identifier and chemical identity

#### 1.1. Product identifier

**Product Name:** MAGNIFIN® H-5 GV; MAGNIFIN® H-5 HV; MAGNIFIN® H-5 MV; MAGNIFIN® H-10 MV

**Pure substance/mixture** Mixture

#### Magnesium Hydroxide

**CAS Number** 1309-42-8

**Weight-%** >=97

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

**Recommended Use** Additive : Flame retardant

**Uses advised against** None known.

#### 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

**Pure substance/mixture** Mixture

**GHS Classification** This product is not classified as hazardous according to the UN GHS guideline

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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

**Hazard Statements** None

### Precautionary Statements

**Prevention** Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Employ good industrial hygiene practice  
Wear protective gloves/protective clothing/eye protection/face protection  
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

**3.1. Substance** Not applicable

**3.2. Mixture** Mixture

| Chemical Name       | CAS Number | Taiwan | Taiwan - GHS   | EU REACH<br>registration number | Weight-% |
|---------------------|------------|--------|----------------|---------------------------------|----------|
| Magnesium Hydroxide | 1309-42-8  | Y      | Not classified | 01-2119488756-18-00<br>40       | >=97     |

## SECTION 4: First aid measures

**4.1. Description of first aid measures**

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|  |  |
|--|--|
| <b>General Advice</b>  | 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. |
| <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

### Engineering Controls:

#### Exposure Limit Values

#### Magnesium Hydroxide

Taiwan

ACGIH

OSHA

OEL: Not established  
TLV-TWA: 8-hr : 10 mg/m<sup>3</sup> (total dust)  
3 mg/m<sup>3</sup> (respirable fraction)  
TWA: 15 mg/m<sup>3</sup> total dust  
5 mg/m<sup>3</sup> respirable

### 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)

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Use exhaust ventilation to keep airborne concentrations below exposure limits  
In case of insufficient ventilation, wear suitable respiratory equipment

**Personal Protective Equipment****Eye Protection**

Wear safety glasses with side shields (or goggles)

**Skin and Body Protection**

Use suitable protective clothing, gloves and footwear, selected with regard for use conditions and exposure.

**Hand Protection**

Impervious gloves: chemical resistant EN 420

**Respiratory Protection:**

In case of exposure to high levels of airborne dust, wear a respirator EN 149, P2 half masks.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice

**Environmental Exposure**

This product does not present any particular risk for the environment.  
Check the appropriate national and local regulations. Prevent entry into sewers and waterways.

## 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

**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<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**

&gt; 320 °C

**Kinematic viscosity**

Not applicable : Solid

**Dynamic viscosity**

Not applicable : Solid

**Oxidizing Properties**

None

**9.2. Other information**

No data available

## 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. |
|---------------------|---|

### 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 | 8500 mg/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** Not classified.

**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. 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 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**

**European Waste Catalog** 060299

**WGK Classification (AwSV)** 5209 WGK: nwg

**SECTION 14: Transport information**

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

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|                    |               |
|--------------------|---------------|
| <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 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****Global Inventories**

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

**Legend** X / Y: Complies ; A: Active ; - / N: Exempt / Not Listed**SECTION 16: Other information****Prepared by**CP Kelco Global Regulatory Affairs  
Email: Regulatory.Affairs@cpkelco.com.**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



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**Hazard Statements** None

### Hazards identification

**Physical Hazard** Not classified

**Health Hazards** Not classified

**Environmental Hazard** Not classified

### Abbreviations and acronyms

IARC (International Agency for Research on Cancer)  
IATA (International Air Transport Association)  
IMDG (International Maritime Dangerous Goods)  
IUCID (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  
GHS (Globally Harmonized System)  
SARA (Superfund Amendments and Reauthorization Act of 1986)  
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**