



HUBER ENGINEERED MATERIALS

# Safety Data Sheet

## MAGNIFIN® H-5 TV

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006  
COMMISSION REGULATION (EU) No. 2015/830

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

#### 1.1. Product identifier

**Product Name:** MAGNIFIN® H-5 TV

**Pure substance/mixture** Mixture

Chemical Name	CAS Number	EC No	REACH registration number	(CLP) Regulation (EC 1272/2008)	Weight-%
Magnesium hydroxide	1309-42-8	215-170-3	01-2119488756-18-0000	Not classified	>98

#### 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](http://www.hubermaterials.com)

**E-mail** [hubermaterials@huber.com](mailto: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

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

#### 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** 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	REACH registration number	(CLP) Regulation (EC 1272/2008)	Annex	Weight-%
Magnesium hydroxide	1309-42-8	215-170-3	01-2119488756-18-0000	Not classified	--	>98

## SECTION 4: First aid measures

**4.1. Description of first aid measures**

<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>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  
OSHA  
NIOSH  
Estonia

STEL: Not established  
TWA: Not established  
TWA: Not established  
1 mg/m<sup>3</sup> total dust  
0.5 mg/m<sup>3</sup> 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

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

### 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.

#### Hand protection

For operations where prolonged or repeated skin contact may occur, impervious

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	gloves should be worn.
<b>Respiratory Protection</b>	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
<b>Thermal hazards</b>	None known.
<b>Hygiene Measures</b>	Follow general hygiene considerations recognized as common good workplace practices
<b>Environmental Exposure Controls</b>	Dispose of in accordance with local regulations

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic 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 Decomposes at > 320 °C
<b>Flash Point:</b>	Not determined.
<b>Evaporation Rate</b>	Not determined.
<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
<b>9.2. Other information</b>	No data available.

## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	Stable under normal conditions
<b>10.2. Chemical stability</b>	Stable under normal conditions
<b>10.3. Possibility of hazardous</b>	No specific hazard known

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### reactions

**10.4. Conditions to avoid** Decomposes at > 320 °C  
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

<b>Inhalation</b>	Avoid inhalation of the product
<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>Ingestion</b>	Ingestion is not a likely route of exposure
<b>Aspiration hazard</b>	Not an expected route of exposure.

### 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

## SECTION 12: Ecological information

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

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**Magnesium hydroxide**

<b>96-Hour LC50</b>	776 mg/l Fish
<b>72-Hour EC50</b>	> 100 mg/L Algae
<b>48-Hour EC50</b>	170.86 mg/l Daphnia Magna (Water Flea)
<b>WGK Classification (AwSV)</b>	5209. WGK: nwg

<b>12.2. Persistence and degradability</b>	No data available.
<b>12.3. Bioaccumulative potential</b>	No data available.
<b>Partition coefficient</b>	Not applicable Product/Substance is inorganic
<b>Bioconcentration factor (BCF)</b>	No data available.
<b>12.4. Mobility in soil</b>	No data available.
<b>12.5. Results of PBT and vPvB assessment</b>	No data available.
<b>12.6. Other adverse effects</b>	No information available

## 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>WGK Classification (AwSV)</b>	5209. WGK: nwg
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## 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



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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

## 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	REACH registration number	Australia (AICS)	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 8756-18-0 000	Y	Y	Y	(1)-386 ENCS; ISHL	KE-22716	Y	Y	Y	Y	A

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

#### Magnesium hydroxide

WGK Classification (AwSV) 5209. WGK: nwg

### 15.2. Chemical safety assessment

## 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. 2015/830

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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

**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

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  
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**