



**MAGNIFIN® H-5 IV; MAGNIFIN® H-10 IV**

OSHA HCS 2024

Canadian Workplace Hazardous Material Information System (WHMIS) 2015 rev 2022

Mexico NOM-018-STPS-2000; NOM-018-STPS-2015

GHS (Globally Harmonized System)

**Issue Date** 15/Feb/2023

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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 IV; MAGNIFIN® H-10 IV

**Pure substance/mixture** Mixture

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

**Recommended Use** Flame retardant. Additive.

**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  
Abrasive for glass industry, ceramics and stones

**Professional use** Use in coatings, inks, paints and roofing

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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

**Company:** MARTINSWERK GmbH  
Kölner Strasse 110  
50127 Bergheim  
Germany  
Tel. : +49-2271-90.22.78  
Fax. : +49-2271-90.27.17

**Internet** [www.huberadvancedmaterials.com](http://www.huberadvancedmaterials.com)

**Contact E-Mail** [www.huberadvancedmaterials.com/contact](http://www.huberadvancedmaterials.com/contact)

**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

**OSHA Regulatory Status** This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

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

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**Physical Hazards** 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** Do not handle until all safety precautions have been read and understood  
Employ good industrial hygiene practice  
Do not breathe dust  
Wear protective gloves/protective clothing/eye protection/face protection

**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** Store away from incompatible materials  
Keep in a dry place

**Disposal** Disposal should be in accordance with applicable regional, national and local laws and regulations

**Hazards not otherwise classified** None known.  
(HNOC)

**Hazards associated with known or reasonably anticipated uses** None known.

## SECTION 3: Composition/information on ingredients

**Pure substance/mixture** Mixture

Chemical Name	CAS Number	Weight-%
Magnesium hydroxide	1309-42-8	>=97

## SECTION 4: First aid measures

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### 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>Ingestion</b>	Rinse mouth thoroughly with 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>Aspiration hazard</b>	Based on available data, the classification criteria are not met.
<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**

#### **Media**

Use extinguishing agent suitable for type of surrounding fire. Water spray (fog). Dry chemical. Foam. Carbon dioxide (CO2).

#### **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.

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## 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. Do not breathe dust. Ensure adequate ventilation. Wear appropriate personal protective clothing to prevent skin contact. Handle in accordance with good industrial hygiene and safety practice.

**7.2. Conditions for safe storage**, Keep container tightly closed and dry. Store away from incompatible materials. including any incompatibilities

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### Magnesium hydroxide

OSHA

ACGIH

NIOSH

TWA: Not established

STEL: Not established

TWA: Not established

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**PNEC (Predicted No Effect Concentration)** No information available

**DNEL (Derived No Effect Level)** No information available

**Biological Limit Values** No information available

### 8.2. Exposure controls

**Engineering Measures** Provide a good standard of controlled ventilation (5 to 10 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 gloves should be worn.

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

**Thermal hazards** None known. Wear suitable protective clothing.

**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

**pH:**

+/- 10 (10% H<sub>2</sub>O)

**Melting point / Freezing point**

Not applicable Decomposes at > 320 °C

**Initial boiling point and boiling range**

Not applicable

**Freezing Point**

Not applicable

**Flash Point**

Not applicable Product/Substance is inorganic

**Flammability**

Not applicable

**Upper flammability limit:**

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**Lower flammability limit:**

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**Vapor Pressure**

Not applicable

**Relative Vapor Density**

Not applicable

**Relative 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

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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 Characteristics	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 toxicological effects

#### Magnesium hydroxide

<b>LD50s and LC50s</b>	2.1 mg/L Inhalation LC50 Rat 4 h
<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</b>	Rabbit : Non-irritant

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<b>irritation</b>	Dust may cause mechanical irritation to eyes
<b>Skin Corrosion/Irritation</b>	in vitro : Non-irritating to the skin
<b>Reproductive Toxicity</b>	Repeated exposure may cause skin dryness or cracking Not classified. NOAEL (No observed adverse effect level) 1000 mg/kg bw/day
<b>Acute Toxicity</b>	Based on available data, the classification criteria are not met.
<b>Respiratory Sensitization</b>	Based on available data, the classification criteria are not met.
<b>Serious eye damage/eye irritation</b>	Based on available data, the classification criteria are not met.
<b>Skin Corrosion/Irritation</b>	Based on available data, the classification criteria are not met.
<b>Skin Sensitization</b>	Based on available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Reproductive Toxicity</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity - Single exposure</b>	No information available.
<b>Specific target organ toxicity - Repeated exposure</b>	Not classified.

### 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

<b>11.2.1. Endocrine disrupting properties</b>	This product does not contain any known or suspected endocrine disruptors
<b>11.2.2. Other information</b>	Not applicable

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## SECTION 12: Ecological information

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

**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)  
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

**12.7. Other Adverse Effects** None known

## 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**

WGK Classification (AwSV) 5209. WGK: nwg

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### SECTION 14: Transport information

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

TDG -Canada	Not regulated
DOT	Not regulated
ADR	Not regulated
RID	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
ICAO	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

#### Global Inventories

Pure substance/mixture Mixture

Chemical Name	CAS Number	EC No	Australia (AIIIC)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	Thailand (TECI)	New Zealand	Taiwan	Philippines (PICCS)	TSCA: United States
Magnesium hydroxide	1309-42-8	215-170-3	Y	Y	Y	(1)-386 ENCS; ISHL	KE-22716	Y	55-1-0134 4	Y	Y	Y	A

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

#### US Federal Regulations

EPA

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### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40n of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazardous Categorization

### U.S. State Right-to-Know Regulations

Chemical Name	CAS NUMBER:	California Proposition 65	Massachusetts	Minnesota	New Jersey	Pennsylvania
Magnesium hydroxide	1309-42-8	N	N	N	N	N

Y: Listed ; N: Not Listed

### California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

This product does not contain any Proposition 65 chemicals

### CANADA

#### WHMIS

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR

## SECTION 16: Other information

### Prepared by

Huber Engineered Materials (HEM) Global Regulatory Affairs  
 HEM.HAMregulatory@huber.com

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### Reason for Version

OSHA (Occupational Safety and Health Administration of the US Department of Labor).

### Training Advice

Do not handle until all safety precautions have been read and understood

### 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

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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**