# SAFETY DATA SHEET



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

MOL No. 2009-68Standards for Classification and Labeling of Chemical Substances and Safety Data Sheet (SDS)

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## Section 1: PRODUCT AND COMPANY IDENTIFICATION

A. Product name	MAGNIFIN® H-5 IV; MAGNIFIN® H-10 IV	
Pure substance/mixture	Mixture	
<u>Magnesium hydroxide</u> CAS Number Weight-%	1309-42-8 >=97	
B. Recommended use and Limitations on use		
Recommended Use	Flame retardant Additive	
Uses advised against	None known	
C. Supplier information		
Company Name	J.M. Huber Corporation 3100 Cumberland Boulevard, Suite 600 Atlanta, GA 30339 USA Tel: +1 678 247-7300	
E-mail	hubermaterials@huber.com	
Internet	www.hubermaterials.com	
Contact person Emergency phone number	CHEMTREC +1 800 424 9300 International +1 703 527 3887	

# Section 2: HAZARDS IDENTIFICATION

### A. Hazard category/Classification

Physical Hazards	Not classified
Health Hazards	Not classified
Environmental Hazards	Not classified

### B. Warning label items including precautionary statement

Label Elements

Symbols/Pictograms None

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Signal Words	None
Hazard Statements	None
Precautionary statement Prevention	Employ good industrial hygiene practice
Response	Wash skin with soap and water
Storage	Store away from incompatible materials
Disposal	Disposal should be in accordance with applicable regional, national and local laws and regulations
C. Other hazards not included in the hazard category criteria (e.g. dust explosion hazard)	

None known

# **Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Mixture

Chemical Name	CAS Number	S. Korea (KECL)	Korean GHS Classification	Weight-%
Magnesium hydroxide	1309-42-8	KE-22716	Not classified	>=97

# Section 4: FIRST AID MEASURES

A. In case of eye contact	Rinse with water. Get medical attention if irritation develops and persists.
B. In case of skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
C. In case of inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
D. In case of swallowing	Rinse mouth. Get medical attention if symptoms occur.
E. Note to physician	Treat symptomatically.

# Section 5: FIRE FIGHTING MEASURES

### A. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	None known

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### B. Specific hazards arising from the chemical (example: hazardous combustion products)

Explosion hazard: None known

### C. Specific methods of fire-fighting

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. In the event of fire and/or explosion do not breathe fumes. Move container from fire area if it can be done without risk.

### Section 6: SPILLAGE, ACCIDENTAL RELEASE MEASURES

**A. Personal precautions, protective equipment and emergency measures** Ensure adequate ventilation. Avoid dust formation. See section 8 for more information.

**B. Environmental precautions** Not considered to be harmful to aquatic life. Avoid discharge into drains, water courses or onto the ground.

**C. Methods and materials for containment and cleaning up** Vacuum or sweep material and place in a disposal container.

## Section 7: HANDLING AND STORAGE

### A. Precautions for safe handling

In case of exposure to environments exceeding the occupational exposure limit, wear a respirator in compliance with national legislation.

### B. Conditions for safe storage (including any incompatibilities)

Keep container tightly closed in a dry and well-ventilated place

### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### A. Exposure limit values, biological limit values, etc

### Magnesium hydroxide

Korea	TWA: Not established
ACGIH	STEL: Not established
OSHA	TWA: Not established

### **B. Engineering 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

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C. Personal protective equipment

- Eye protection If contact is likely, safety glasses with side shields are recommended.
- Hand protection For prolonged or repeated skin contact use suitable protective gloves.
- Body protection Wear suitable protective clothing.

Hygiene Measures

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

Physical State Color Odor Odor Threshold pH: Melting point / Freezing point Melting point / Freezing point Initial boiling point and boiling range	Solid Powder White Odorless No information available +/- 10 (10% H2O) Not applicable Decomposes at > 320 °C Not applicable
Flash Point:	Not applicable
	Product/Substance is inorganic
Evaporation Rate	Not applicable
Flammability (solid, gas)	Not applicable
Upper flammability limit:	No data available
Lower flammability limit:	No data available
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Relative Density	2.4 g/cm3, 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	> 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

A. Stability and hazardous reaction potential Stability Stable under normal conditions

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Hazardous reaction None known potential

**B. Conditions to avoid (e.g. static discharge, shock or Vibration, etc)** Avoid creating dust. Incompatible materials.

C. Incompatible materials Strong oxidizing agents

**D. Hazardous decomposition products** No hazardous decomposition products are known.

## Section 11: TOXICOLOGICAL INFORMATION

A. Information on likely routes of exp
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- Mouth
  Not an expected route of exposure
- Eyes Dust contact with the eyes can lead to mechanical irritation
- Skin Prolonged skin contact may cause temporary irritation.

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

## Section 12: ECOLOGICAL INFORMATION

A. Ecotoxicity Hazardous to the aquatic environment, acute hazard

Not classified Avoid runoff to waterways and sewers

Hazardous to the aquatic environment, long-term

Not classified Avoid runoff to waterways and sewers

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hazard

Magnesium hydroxide 96-Hour LC50 72-Hour EC50 48-Hour EC50

776 mg/l. Fish. > 100 mg/L. Algae. 170.86 mg/l. Daphnia Magna (Water Flea).

- B. Persistence/degradability No data available
- C. Bioaccumulative potential No data available
- D. Mobility in soil No data available
- E. Other adverse effects No data available

## Section 13: DISPOSAL CONSIDERATIONS

### A. Method of disposal

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose in accordance with all applicable regulations.

### B. Disposal considerations (including disposal of contaminated containers or packaging) Disposal should be

in accordance with applicable regional, national and local laws and regulations

## **Section 14: TRANSPORT INFORMATION**

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

ADR	Not regulated
RID	Not regulated
ΙΑΤΑ	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

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**14.6. Special precautions for** Not applicable **user** 

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

### Section 15: REGULATORY INFORMATION

#### **National Regulations**

Magnesium hydroxideCAS Number1309-42-8Weight-%>=97Korean GHS ClassificationNot classified

### Other domestic and foreign regulations

#### **Global Inventories**

Chemical Name	CAS Number	EC No	REACH registrati on number	Australia (AICS)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	-	Philippine s (PICCS)	Taiwan	TSCA: United States
Magnesium hydroxide	1309-42-8		01-211948 8756-18-0 000		Y	Y	(1)-386 ENCS; ISHL	KE-22716	Y	Y	Y	Y	A

Legend

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

## **Section 16: OTHER INFORMATION**

### A. Source of Information

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:

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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)

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C. Number of revisions and Date 1.3 of most recent revision

D. Other

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### End of Safety Data Sheet