

## **Safety Data Sheet**

#### MAGNIFIN® H-5A; MAGNIFIN® H-10A

Japan-JIS Z 7253:2019
Occupational Safety and Health Act
GHS (Globally Harmonized System)

Issue Date 21/Aug/2023 Revision Number 1.3.2
Print Date 28/Aug/2023 Page 1 of 8

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: MAGNIFIN® H-5A; MAGNIFIN® H-10A

Chemical Name Magnesium Hydroxide (surface modified)

Pure substance/mixture Mixture

Magnesium hydroxide

**CAS Number** 1309-42-8 **Weight-%** >=97

Surface modified magnesium hydroxide with substituted silane

CAS Number Proprietary

Weight-% 1-2

**Recommended Use** Additive: Flame retardant

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### 2. HAZARD IDENTIFICATION

**Japan GHS Classification** 

Physical Hazards Not classified

Health Hazard Not classified

Environmental Hazards Not classified

**GHS** label elements

Symbols/Pictograms None

Signal Word None

Hazard statements Based on available data, the classification criteria are not met

**Precautionary Statements** 

## **Safety Data Sheet**

#### MAGNIFIN® H-5A; MAGNIFIN® H-10A

Issue Date 21/Aug/2023 Revision Number 1.3.2

Print Date 28/Aug/2023 Page 2 of 8

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

Employ good industrial hygiene practice

Do not breathe dust

Response IF exposed or concerned: Get medical advice/attention

Wash with plenty of soap and water

**Storage** Store away from incompatible materials.

Keep in a dry place

Disposal Dispose of contents/container to an approved waste disposal plant

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture Mixture

Chemical Name	CAS Number	Weight-%		
Magnesium hydroxide	1309-42-8	>=97		
Surface modified magnesium hydroxide with substituted silane	Proprietary	1-2		

## 4. FIRST AID MEASURES

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing

**IF ON SKIN:** Wash with plenty of soap and water

Take off contaminated clothing and wash before reuse

**IF IN EYES:** 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

**If swallowed:** Rinse mouth thoroughly with water

Self-Protection of the First Aider Ensure that medical personnel are aware of the material(s) involved and take

precautions to protect themselves

Notes to Physician Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Water spray (fog)

Media Foam

Dry chemical

Carbon dioxide (CO2)

## Safety Data Sheet

#### **MAGNIFIN® H-5A; MAGNIFIN® H-10A**

**Revision Number** 1.3.2 Issue Date 21/Aug/2023

Print Date 28/Aug/2023 Page 3 of 8

Unsuitable Extinguishing Media Do not use water jetstream

Special hazards arising from the Avoid dust formation

substance or mixture

In case of fire and/or explosion do not breathe fumes Fire-fighting measures

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)

Not applicable Other Information

### 7. HANDLING AND STORAGE

Handling

Provide adequate ventilation as well as local exhaustion at critical locations **Technical measures** 

> Ensure adequate ventilation Use personal protection equipment See section 8 for more information

Advice on safe handling Minimize dust generation and accumulation

including any incompatibilities

Conditions for safe storage, 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 exhaustion at critical locations

# **Safety Data Sheet**

#### MAGNIFIN® H-5A; MAGNIFIN® H-10A

Issue Date 21/Aug/2023 Revision Number 1.3.2

**Print Date** 28/Aug/2023 **Page 4 of 8** 

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

**Eve 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

Physical State Solid, Powder Color White

Odor Odorless

Odor Threshold No information available

Melting Point / Melting RangeNo data availableBoiling PointNo data available

Freezing Point No information available

Autoignition Temperature
Evaporation Rate
Flammability (solid, gas)
Explosive Properties
Vapor Pressure
Water Solubility
Not applicable
Not applicable
Not applicable
Insoluble

Partition coefficientNo data availableViscosityNo data availableSpecific GravityNo data available

Oxidizing Properties None

Decomposition Temperature > 320 °C

Flash Point Not applicable. Product/Substance is inorganic.

pH: +/- 10 (10% H2O)

Melting point / Freezing point

Not applicable

Melting point / Freezing point Decomposes at > 320 °C

Initial boiling point and boiling Not applicable

range

Vapor Density
Relative Density
Solubility in other solvents
Kinematic viscosity
Dynamic viscosity
Not applicable
2.4 g/cm3, 20° C
No data available
Not applicable : Solid
Not applicable : Solid

## **Safety Data Sheet**

#### MAGNIFIN® H-5A; MAGNIFIN® H-10A

Issue Date 21/Aug/2023 Revision Number 1.3.2

Print Date 28/Aug/2023 Page 5 of 8

Other information: No data available

10. STABILITY AND REACTIVITY

**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

Oral LD50 > 2000 mg/kg mg/kg Rat > 2.1 mg/L 4- hours

Chronic Effects NOAEL (No observed adverse effect level)

>1000

mg/kg bw/day

Serious eye damage/eye Rabbit : Non-irritant

irritation Dust may cause mechanical irritation to eyes

**Skin Corrosion/Irritation** in vitro : Non-irritating to the skin

Repeated exposure may cause skin dryness or cracking

Reproductive Toxicity Not classified

NOAEL (No observed adverse effect level)

1000

mg/kg bw/day

Surface modified magnesium hydroxide with substituted silane

Oral LD50 8 mL/kg Rat

Specific target organ toxicity -

Single exposure

No information available.

## Safety Data Sheet

#### **MAGNIFIN® H-5A; MAGNIFIN® H-10A**

Issue Date 21/Aug/2023 Revision Number 1.3.2 Print Date 28/Aug/2023

Page 6 of 8

Specific target organ toxicity -

Repeated exposure

No information available.

## 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)

Based on available data, the classification criteria are not met **Ecotoxicity** 

Persistence and degradability No data available

**Bioaccumulation** No data available.

Mobility in soil No data available

No data available Hazardous to the ozone layer

13. DISPOSAL CONSIDERATIONS

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

Empty containers should be taken to an approved waste handling site for recycling Contaminated packaging

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 Not regulated **ICAO** 

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 Not applicable

user

## 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

# Safety Data Sheet

#### MAGNIFIN® H-5A; MAGNIFIN® H-10A

Issue Date 21/Aug/2023 Print Date 28/Aug/2023

Revision Number 1.3.2 Page 7 of 8

## 15. REGULATORY INFORMATION

Occupational Safety and Health Not regulated Act

**Poisonous and Deleterious** 

Not regulated

**Substances Control Act** 

Act on the Evaluation of Not regulated

**Chemical Substances and** Regulation of Their Manufacture,

etc.

Japanese Pollutant Release and Not regulated **Transfer Register - Class 1 Substance** 

**Ship Safety Law, Dangerous Goods Marine Transport and** Storage Rule

Not regulated

**Global Inventories** 

Pure substance/mixture Mixture

Chemical Name	CAS Number	EC No	EU REACH registrati on number	Australia (AIIC)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico		Philippine s (PICCS)	Taiwan	TSCA: United States
Magnesium hydroxide			01-211948 8756-18-0 000		Υ	Y	(1)-386 ENCS; ISHL	KE-22716	Υ	Y	Y	Υ	Α
Surface modified magnesium hydroxide with substituted silane	Proprietar y	Proprietar y		Y	Y	Y	Y	Y	N	Y	Y	Y	A

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

#### Legend-Inventories

**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**

## **Safety Data Sheet**

#### **MAGNIFIN® H-5A; MAGNIFIN® H-10A**

Issue Date 21/Aug/2023 Print Date 28/Aug/2023 Revision Number 1.3.2 Page 8 of 8

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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 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

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

PNEC (Predicted No Effect Concentration) GHS (Globally Harmonized System) TSCA (Toxic Substances Control Act)

**Disclaimer** 

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**End of Safety Data Sheet**