

# **Safety Data Sheet**

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

Japan-JIS Z 7253:2012 Occupational Safety and Health Act Globally Harmonized System (GHS)

Issue Date: 22/Jul/2019 Revision Number: 1.3

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## 1. PRODUCT AND COMPANY IDENTIFICATION

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

Pure substance/mixture Mixture

Magnesium hydroxide

Print Date: 20/Jan/2021

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

**Recommended Use** Flame retardant Additive

Uses advised against None known

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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** 

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

Employ good industrial hygiene practice

Do not breathe dust

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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	Japan	Japan GHS Classification	REACH registration number	Weight-%
Magnesium hydroxide	1309-42-8	(1)-386 ENCS; ISHL	Not classified	01-2119488756-18-00 00	>=97

## 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)

Unsuitable Extinguishing Media Do not use water jetstream

onsultable Extinguishing Media Do not doe water jetetrean

Special hazards arising from the Avoid dust formation substance or mixture

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

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)

Other Information Not applicable

## 7. HANDLING AND STORAGE

Handling

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

> 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

Provide adequate ventilation as well as local exhaustion at critical locations **Exposure Limits** 

Magnesium hydroxide

TWA: Not established Japan

Ensure adequate ventilation, especially in confined areas **Engineering Measures** 

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**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

**Eye 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

Appearance:

Physical State Solid Powder

Color White
Odor Odorless

Odor Threshold No information available 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

Flash Point: Not applicable. Product/Substance is inorganic.

Evaporation Rate
Plammability (solid, gas)
Not applicable
Not applicable

Upper flammability limit: Lower flammability limit:

Vapor PressureNot applicableVapor DensityNot applicableRelative Density2.4 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

Not applicable : Solid

Oxidizing Properties None

Other information: No data available

## 10. STABILITY AND REACTIVITY

**Reactivity** Stable under normal conditions

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**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

Users are advised to consider national Occupational Exposure Limits or other **General Information** 

equivalent values.

Information on Likely Routes of Exposure

Based on available data, the classification criteria are not met. **Aspiration hazard** 

11.1. Information on toxicological effects

Magnesium hydroxide

Oral LD50 > 2000 mg/kg mg/kg Rat **Inhalation LC50** > 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 in vitro: Non-irritating to the skin Skin Corrosion/Irritation

Repeated exposure may cause skin dryness or cracking

Not classified **Reproductive Toxicity** 

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.

## 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)

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

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Persistence and degradability No data available

**Bioaccumulation** No data available.

Mobility in soil No data available

Hazardous to the ozone layer No data available

13. DISPOSAL CONSIDERATIONS

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

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

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 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** Not applicable

user

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

Not applicable

## 15. REGULATORY INFORMATION

Occupational Safety and Health Not regulated

Act

**Poisonous and Deleterious** 

**Substances Control Act** 

Not regulated

Act on the Evaluation of Not regulated

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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

Not regulated

Storage Rule

**Global Inventories** 

Pure substance/mixture Mixture

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	Υ	А

Legend

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

**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**

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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 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)

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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**