

# Magnesium sulfate (Crystals)

## Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 8/10/2010 Revision date: 11/7/2024 SDS code: B6-03F Version: 06

## Safety Data Sheet

## 1. Chemical product and company identification

Magnesium sulfate (Crystals) **Product name** 

SDS code B6-03F

Company/undertaking

identification

HAYASHI PURE CHEMICAL IND.,LTD.

Address: 3-2-12 Uchihiranomachi, Chuo-ku, Osaka, Osaka, Japan

Telephone: 06-6910-7305

E-mail: shiyaku\_kikaku@hpc-j.co.jp URL: https://www.hpc-j.co.jp/

**Emergency number** 06-6910-7305 Recommended use Food additive.

Comply the Food Sanitation Act when using. Restrictions on use

#### 2. Hazards identification

#### **GHS** classification

Health hazards

Physical hazards **Explosives** classification not possible

> Flammable gases No classification

Aerosol classification not possible

Oxidizing gases No classification No classification Gases under pressure Flammable liquids No classification

Flammable solids classification not possible Self-reactive substances and classification not possible

mixtures

No classification Pyrophoric liquids

Pyrophoric solids classification not possible Self-heating substances and classification not possible

mixtures

Substances and mixtures which in classification not possible

contact with water emit flammable

gases

Oxidizing liquids No classification

Oxidizing solids classification not possible Organic peroxides classification not possible Corrosive to metals classification not possible Desensitized explosives classification not possible Acute toxicity (oral) classification not possible Acute toxicity (dermal) classification not possible

Acute toxicity (inhalation:gas) classification not possible Acute toxicity (inhalation:vapors) classification not possible Acute toxicity (inhalation:dust/mist) classification not possible Skin corrosion/irritation classification not possible

Serious eye damage/eye irritation classification not possible Respiratory sensitization classification not possible classification not possible Skin sensitization

Germ cell mutagenicity classification not possible Carcinogenicity classification not possible Reproductive toxicity classification not possible classification not possible

Specific target organ toxicity (single

exposure)

Specific target organ toxicity classification not possible

(repeated exposure)

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Aspiration hazard classification not possible Environmental Hazardous to the aquatic classification not possible

environment, long-term (chronic)

hazards environment, short-term (acute) Hazardous to the aquatic classification not possible

> Hazardous to the ozone layer classification not possible

## 3. Composition/information on ingredients

Distinction of substance or mixture : Substance

Name	Concentration or Concentration range	Formula	Kanpo number		CAS RN
			CSCL no	ISHL no	CASINI
Magnesium sulfate heptahydrate	≧99.0%, ≦100%	MgSO4·7H2O	(1)-467	Existing Chemical Substance	10034-99-8

The above concentration or concentration range are not product specification.

All percentages listed in the above concentration or concentration range are wt%, unless otherwise specified.

#### 4. First aid measures

#### First aid measures

First-aid measures after inhalation Remove person to fresh air and keep comfortable for breathing.

Get immediate medical advice/attention.

First-aid measures after skin

contact

Remove/Take off immediately all contaminated clothing.

Gently wash with plenty of soap and water.

Get immediate medical advice/attention.

First-aid measures after eye

contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

Get immediate medical advice/attention.

First-aid measures after ingestion Rinse mouth.

Get immediate medical advice/attention.

# 5. Fire fighting measures

Suitable extinguishing media Use proper extinguishing media depending on peripheral fire.

Unsuitable extinguishing media Do not use a heavy water stream.

Fire hazard This product is unburnable.

Hazardous decomposition products

in case of fire

In case of fire, product may produce irritative or toxic fumes/gases.

Firefighting instructions If ignited, for the initial fire-fighting, cut off combustion sources, extinguish

fire at a stroke using appropriate fire-extinguishers.

In the case of peripheral fire, quickly remove movable containers to safe

places.

If unable to be moved containers, sprinkle water to containers and

surrounding equipment, etc. to cool.

Wear appropriate fire-resistant clothing including self contained-Protection during firefighting

compressed air breathing apparatus.

#### 6. Accidental release measures

## Personal Precautions, Protective Equipment and Emergency Procedures

General measures Wear appropriate personal protective devices to prevent inhalation and

contact with eye, skin, and clothing, and never attempt to work on the lee.

**Environmental precautions** 

Environmental precautions Avoid release to the environment.

Prevent entry to sewers and public waters.

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#### Methods and Equipment for Containment and Cleaning up

Methods for cleaning up Take care not to generate dust, sweep it up as much as possible, collect it

in an empty container that can be sealed, and move it to a safe place.

Wash out the spilled area with large amounts of water.

## 7. Handling and storage

## Handling

Technical measures Work with appropriate personal protective equipment to prevent inhalation

or contact to eyes, skin, and clothing.

Handle with care to prevent leakage, overflowing, or scattering, minimize

generation of mist or vapor, and thoroughly ventilate.

Precautions for safe handling Do not eat, drink or smoke when using this product.

Thoroughly wash your hands and gargle after handling.

Ensure good ventilation of the work station.

Do not contact, breathe or swallow.

Prevents handling of incompatible

substances or mixtures

Avoid prolonged or repeated exposure.

Storage

Storage conditions Store in a well-ventilated place, away from direct sunlight. Keep container

tightly closed and keep away from fire and heat sources.

Material used in

packaging/containers

Airtight container.

Technical measures Comply with applicable regulations.

Storage temperature Cool and dark place

# 8. Exposure controls / Personal protection equipment

Appropriate engineering controls : Cover up tightly the generation source at the handling place or install local

exhaust equipment or overall ventilation equipment. Install safety showers and eye-fountains near a handling place. Clearly indicate the location.

Protective equipment

Respiratory protection : Dustproof mask

Hand protection : Impervious protective gloves

Eye protection : Protective glasses (general glasses, glasses with side-shields, goggles) Skin and body protection : Impervious aprons, Impervious work clothing, Impervious long boots

## 9. Physical and chemical properties

Physical state Solid Appearance Crystals

Color colorless ~ white

Odor Odorless

рΗ  $5.0 - 8.0 (50g/L, 25^{\circ}C)$ 

Melting point No data available Freezing point No data available No data available Boiling point No data available Flash point Auto-ignition temperature No data available Decomposition temperature No data available Flammability No data available Vapor pressure < 0.13 Pa (20°C) No data available Relative density Density 1.68 g/cm3 (20°C) Relative gas density No data available Soluble in glycerol. Solubility

No data available

Water: 41.5 % (20°C)

Partition coefficient n-

octanol/water (Log Pow)

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Explosive limits (vol %) : No data available Viscosity, kinematic : No data available Particle characteristics : No data available

## 10. Stability and reactivity

Reactivity : No data available

Chemical stability : Stable under normal handling conditions.

Possibility of hazardous reactions : May react with strong oxidizing agents.

Conditions to avoid : Sunlight, heat. Contact with strong oxidizing agents.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition : Sulfur oxides, Magnesium compounds

products

# 11. Toxicological information

The information in this section is based on the "GHS Classification Results" by NITE.

Magnesium sulfate heptahydrate		
Acute toxicity (oral)	No data available	
Acute toxicity (dermal)	No data available	
Acute toxicity (gas)	No data available	
Acute toxicity (vapour)	No data available	
Acute toxicity (inhalation:dust/mist)	No data available	
Skin corrosion/irritation	No data available	
Serious eye damage/irritation	No data available	
Respiratory sensitization	No data available	
Skin sensitization	No data available	
Germ cell mutagenicity	No data available	
Carcinogenicity	No data available	
Reproductive toxicity	No data available	
STOT-single exposure	No data available	
STOT-repeated exposure	No data available	
Aspiration hazard	No data available	

## 12. Ecological information

The information in this section is based on the "GHS Classification Results" by NITE.

Magnesium sulfate heptahydrate		
Hazardous to Aquatic Environment - Acute Hazard	No data available	
Hazardous to Aquatic Environment - Chronic Hazard	No data available	
Persistence and degradability	No data available	
Bioaccumulative potential	No data available	
Mobility in soil	No data available	
Hazardous to the ozone layer	No data available	

# 13. Disposal considerations

Ecology - waste materials : With the detail information of the waste, subcontract its disposal to a

waste disposer authorized by a Prefectural Governor.

Contaminated container and

packaging

Empty the packaging completely prior to disposal.

Empty containers should be taken for recycle, recovery or waste in

accordance with local regulation.

# 14. Transport information

#### International Regulations

#### Transport by sea(IMDG)

UN-No. (IMDG) Not applicable Proper Shipping Name (IMDG) Not applicable Not applicable Packing group (IMDG) Transport hazard class(es) (IMDG) Not applicable

Air transport(IATA)

UN-No. (IATA) Not applicable Proper Shipping Name (IATA) Not applicable Packing group (IATA) Not applicable Transport hazard class(es) (IATA) Not applicable Marine pollutant Not applicable

Regulations in Japan

Regulatory information by sea Not applicable Regulatory information by air Not applicable

Special transport precautions When transporting, load containers so that they do not tip over,

damage, drop or collapse. Make sure there is no leak in containers.

## 15. Regulatory information

#### **National law**

Industrial Safety and Health Law Not applicable Japanese Poisonous and Not applicable

Deleterious Substances Control Law

Fire Service Law Not applicable

Foreign Exchange and Foreign

Export Trade Control Ordinance appendix 1-16 Trade Control Act

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

#### 16. Other information

Data sources Handbook of 17524 Chemical Products, The Chemical Daily Co, Ltd.

Not applicable

International Chemical Safety Cards.

National Institute of Technology and Evaluation (NITE). 2020 Emergency Response Guidebook (ERG 2020).

Other information The SDS is copyrighted material of Hayashi Pure Chemical Ind, Ltd.

This Safety Data Sheet is intended to be provided for business operators who handle chemical substance products of the relevant product and is not intended to assure safety in any way. The Safety Data Sheet does not verify all the information on the applicable chemical substance in the present time. With the recognition in that unknown danger constantly exists in the relevant chemical substance, the product shall be used in the principle of self-responsibility of the user with the highest priority to safety from transport and unpacking to disposal. When the relevant chemical substance is used, the user him/herself shall collect safety information and shall investigate laws and regulations at the place, organizations, countries, etc. where the substance is actually used and give the highest priority to them. The Company shall take no responsibility for investigating state and local regulations and the user shall handle this problem on his/her own responsibility. In the event that SDS in Japanese and SDS translated into other languages exist, the document described in Japanese is prior to all other documents whether or not there is any difference in contents, and documents in other languages shall be references.