



# SAFETY DATA SHEET

According to JIS Z 7253:2019 **Revision date** 09-Feb-2023 Revision Number 4.03

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Magnesium Oxide, Heavy, -10um, 99.9%
Product Code	137-08981
Manufacturer	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741 Fax: +81-6-6203-5964
Supplier	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741 Fax: +81-6-6203-2029
Emergency telephone number Recommended uses and restrictions on use	+81-6-6203-3741 / +81-3-3270-8571 For research use only

# Section 2: HAZARDS IDENTIFICATION

GHS classification <u>Classification of the substance or mixture</u> Serious eye damage/eye irritation Specific target organ toxicity (single exposure) <u>Category 3</u> Respiratory irritation

Category 2A Category 3

Pictograms



Warning

#### Hazard statements

- H319 Causes serious eye irritation
- H335 May cause respiratory irritation

## **Precautionary statements-(Prevention)**

- Wash face, hands and any exposed skin thoroughly after handling
- · Wear protective gloves/protective clothing/eye protection/face protection
- Avoid breathing dust/fume/gas/mist/vapors/spray
- · Use only outdoors or in a well-ventilated area

# Precautionary statements-(Response)

• IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

- If eye irritation persists: Get medical advice/attention
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- Call a POISON CENTER or doctor/physician if you feel unwell

## Precautionary statements-(Storage)

• Store in a well-ventilated place. Keep container tightly closed

Store locked up

Precautionary statements-(Disposal)

Dispose of contents/container to an approved waste disposal plant

Others Other hazards

Not available

# Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture

Substance

MgO

Formula

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Magnesium oxide	99.9	40.30	(1)-465	公表	1309-48-4
	(subtracting method)				

Note on ISHL No.:

\* in the table means announced chemical substances.

Impurities and/or Additives: Not applicable

# Section 4: FIRST AID MEASURES

#### Inhalation

Remove to fresh air. If symptoms persist, call a physician.

#### Skin contact

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

#### Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

#### Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

## Protection of first-aiders

Use personal protective equipment as required.

# Section 5: FIRE FIGHTING MEASURES

## Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment **Unsuitable extinguishing media** 

No information available

## Specific hazards arising from the chemical product

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Special extinguishing method

# No information available

# Special protective actions for

## fire-fighters

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

# Section 6: ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

# Environmental precautions

To be careful not discharged to the environment without being properly handled waste water contaminated.

Methods and materials for contaminent and methods and materials for cleaning up

Sweep up and gather scattered particles, and collect it in an empty airtight container.

# Recoverly, neutralization

No information available Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

# Section 7: HANDLING AND STORAGE

## Handling

#### Technical measures

Avoids contact with acids. Use with local exhaust ventilation.

## Precautions

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle In places other than those specified, should not be smoking or eating and drinking Should not be brought contaminated protective equipment and gloves to rest stops Deny unnecessary entry of non-emergency personnel to the handling area

# Safety handling precautions

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

#### Storage

## Safe storage conditions

#### Storage conditions

Safe packaging material Incompatible substances

Store away from sunlight in well-ventilated place at room temperature (preferably cool). Keep container tightly closed. Polypropylene Acids

# Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## **Engineering controls**

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and handand eye-wash facility. And display their position clearly.

#### **Exposure limits**

Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
Magnesium oxide	N/A	N/A	TWA: 10 mg/m <sup>3</sup> inhalable
1309-48-4			particulate matter

## Personal protective equipment Respiratory protection

Dust mask Protection gloves protective eyeglasses or chemical safety goggles Long-sleeved work clothes

#### Skin and body protection General hygiene considerations

Hand protection

Eye protection

Handle in accordance with good industrial hygiene and safety practice.

# Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form

Color Appearance Odor Melting point/freezing point Boiling point, initial boiling point and boiling range Flammability Evaporation rate: Flammability (solid, gas):

white powder Odorless 2800 °C 3600 °C no data available no data available no data available

- Upper/lower flammability or explosive limits Upper: Lower: Flash point Auto-ignition temperature: **Decomposition temperature:** pН Viscosity (coefficient of viscosity) Dynamic viscosity Solubilities n-Octanol/water partition coefficient:(log Pow) Vapour pressure Specific Gravity / Relative density Vapour density **Particle characteristics**
- no data available basic ( Immersion in water ) no data available no data available water and Ethanol : practically insoluble,or insoluble . no data available no data available 3.58 g/cm3 no data available no data available

# Section 10: STABILITY AND REACTIVITY

## Stability

 Reactivity
 no data available

 Chemical stability
 Stable under recommended storage conditions.

 Hazardous reactions
 Stable under recommended storage conditions.

 None under normal processing
 Conditions to avoid

 Extremes of temperature and direct sunlight
 Incompatible materials

 Acids
 Hazardous decomposition products

 No information available
 No information available

# Section 11: TOXICOLOGICAL INFORMATION

## Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Magnesium oxide	3990 mg/kg (Rat)	N/A	N/A
-	3870 mg/kg (Rat)		

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
magneeran exace			Based on the NITE GHS classification results.

Chemical Name	Acute toxicity -inhalation	Acute toxicity -inhalation dust-	Acute toxicity -inhalation mist-
	vapor- source information	source information	source information
magneelan exac			Based on the NITE GHS classification results.

## Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information	
Magnesium oxide	Based on the NITE GHS classification results.	
Serious eye damage/ irritation		
Chemical Name	Serious eye damage/irritation source information	
Magnesium oxide	Based on the NITE GHS classification results.	
Respiratory or skin sensitization		
Chemical Name	Respiratory or Skin sensitization source information	
Magnesium oxide	Based on the NITE GHS classification results.	
Reproductive cell mutagenicity		
Chemical Name	germ cell mutagencity source information	

Magnesium oxide Based on the NITE GHS classification results.		
Carcinogenicity		
Chemical Name	Carcinogenicity source information	
Magnesium oxide	Based on the NITE GHS classification results.	

#### Reproductive toxicity

Chemical Name	Reproductive toxicity source information
Magnesium oxide	Based on the NITE GHS classification results.
STOT-single exposure	
Chemical Name	STOT -single exposure- source information
Magnesium oxide	Based on the NITE GHS classification results.
STOT-repeated exposure	
Chemical Name	STOT -repeated exposure- source information
Magnesium oxide	Based on the NITE GHS classification results.
Aspiration hazard	
Chemical Name	Aspiration Hazard source information
Magnesium oxide	Based on the NITE GHS classification results.

# Section 12: ECOLOGICAL INFORMATION

## Ecotoxicity

No information available

## Other data

Chemical Name	Short-term (acute) hazardous to the aquatic environment source information	Long-term (chronic) hazardous to the aquatic environment source information
- 5		Based on the NITE GHS classification results.

Persistence and degradability	No information available
Bioaccumulative potential	No information available
Mobility in soil	No information available
Hazard to the ozone layer	No information available

# Section 13: DISPOSAL CONSIDERATIONS

## Waste from residues

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

## Contaminated container and contaminated packaging

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

# Section 14: TRANSPORT INFORMATION

ADR/RID UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group	Not regulated -
Marine pollutant	Not applicable
IMDG UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group Marine pollutant (Sea)	Not regulated - Not applicable

Transport in bulk according to<br/>Annex II of MARPOL 73/78 and<br/>the IBC CodeNo information availableIATANot regulatedUN number-Proper shipping name:<br/>UN classfication<br/>Subsidiary hazard class<br/>Packing group<br/>Environmentally HazardousNot applicable

# Section 15: REGULATORY INFORMATION

International Inventories	
EINECS/ELINCS	Listed
TSCA	Listed
Japanese regulations	
Fire Service Act	Not applicable
Poisonous and Deleterious	Not applicable
Substances Control Law	
Industrial Safety and Health Act	Not applicable
Regulations for the carriage	Not applicable
and storage of dangerous	
goods in ship	
Civil Aeronautics Law	Not applicable
Pollutant Release and Transfer	Not applicable
Register Law	
(~2023.3.31)	
Pollutant Release and Transfer	Not applicable
Register Law	
(2023/4/1~) Export Trade Control Order	Not applicable
Export frade Control Order	Not applicable

# **Section 16: OTHER INFORMATION**

Key literature references and sources for data etc.       NITE: National Institute of Technology and Evaluation (JAPAN) http://www.safe.nite.go.jp/japan/db.html IATA dangerous Goods Regulations RTECS:Registry of Toxic Effects of Chemical Substances Japan Industrial Safety and Health Association GHS Model SDS Dictionary of Synthetic Oraganic Chemistry , SSOCJ, Koudansha Scientific Co.Lto Chemical Dictionary, Kyouritsu Publishing Co., Ltd. etc	∟td.
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## Disclaimer

Substance

This SDS is according to JIS Z 7253: 2019. 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, 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.

GHS Classification is according to JIS Z7252(2019). \*JIS: Japanese Industrial Standards

## End of Safety Data Sheet