



# SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 14-Feb-2023 Revision Number 4.03

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Barium Carbonate, 99.9%	
Product Code	028-08761,026-08762,020-08765	
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
 Classification of the substance or mixture

 Acute toxicity - Oral
 Category 3

 Specific target organ toxicity (single exposure)
 Category 1, Category 3

 Category 1
 nervous system, cardiovascular system, muscles

 Category 3
 Respiratory irritation

 Specific target organ toxicity (repeated exposure)
 Category 1

 Category 1
 cardiovascular system, nervous system, muscles, kidneys

 Pictograms
 Category 1



Danger

### Hazard statements

- H301 Toxic if swallowed
- H335 May cause respiratory irritation
- H370 Causes damage to the following organs: nervous system, cardiovascular system, muscles

H372 - Causes damage to the following organs through prolonged or repeated exposure: cardiovascular system, nervous system, muscles, kidneys

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

- Do not breathe dust/fume/gas/mist/vapors/spray
- · Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Use only outdoors or in a well-ventilated area

# Precautionary statements-(Response)

• IF exposed: Call a POISON CENTER or doctor/physician

- 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
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- Rinse mouth

#### **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

#### Formula

#### BaCO3

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Barium carbonate	99.9 (subtracting method)	197.34	(1)-78	*	513-77-9

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	
U	

Safe packaging material Incompatible substances

Store away from sunlight in well-ventilated place at room temperature (preferably cool). Keep container tightly closed. Store locked up. Polyethylene, 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 eve-wash facility. And display their position clearly.

#### **Exposure limits**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

# Personal protective equipment **Respiratory protection** Hand protection Eye protection Skin and body protection

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

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

#### Form Color Appearance Odor Melting point/freezing point

white powder no data available >1450 °C (dec.) Boiling point, initial boiling point and boiling range no data available Flammability no data available **Evaporation rate:** no data available Flammability (solid, gas): no data available Upper/lower flammability or explosive limits no data available Upper: Lower: no data available Flash point no data available Auto-ignition temperature: no data available no data available **Decomposition temperature:** рΗ no data available Viscosity (coefficient of viscosity) no data available no data available Dynamic viscosity Solubilities Dilute Hydrochloric Acid : soluble . water , Ethanol : practically insoluble, or insoluble . n-Octanol/water partition coefficient:(log Pow) no data available Vapour pressure no data available Specific Gravity / Relative density 4.43 Vapour density no data available **Particle characteristics** 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

 Carbon monooxide (CO), Carbon dioxide (CO2), Metal oxides

# Section 11: TOXICOLOGICAL INFORMATION

Acute	to	xi	city		
	_				

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Barium carbonate	418 mg/kg ( Rat )	N/A	N/A
		•	

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
Barlan Garbonato			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
Barlain barbonato			Based on the NITE GHS classification results.

#### Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information	
Barium carbonate	Based on the NITE GHS classification results.	
Serious eye damage/ irritation		
Chemical Name	Serious eye damage/irritation source information	
Barium carbonate	Based on the NITE GHS classification results.	
Respiratory or skin sensitization		
Chemical Name	Respiratory or Skin sensitization source information	

<b>D</b> ectaria esta	Based on the NITE GHS classification results.
Barium carbonate	Based on the NITE GHS classification results.
Reproductive cell mutagenicity	
Chemical Name	germ cell mutagencity source information
Barium carbonate	Based on the NITE GHS classification results.
Carcinogenicity	
Chemical Name	Carcinogenicity source information
Barium carbonate	Based on the NITE GHS classification results.
Reproductive toxicity	
Chemical Name	Reproductive toxicity source information
Barium carbonate	Based on the NITE GHS classification results.
STOT-single exposure	
Chemical Name	STOT -single exposure- source information
Barium carbonate	Based on the NITE GHS classification results.
STOT-repeated exposure	
Chemical Name	STOT -repeated exposure- source information
Barium carbonate	Based on the NITE GHS classification results.
Aspiration hazard	·
Chemical Name	Aspiration Hazard source information
Barium carbonate	Based on the NITE GHS classification results.

# Section 12: ECOLOGICAL INFORMATION

#### Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Barium carbonate	N/A	LC50:Gambusia affinis	N/A
		6950 ma/L 96 h	

#### Other data

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

Persistence and degradability Bioaccumulative potential Mobility in soil Hazard to the ozone layer No information available No information available No information available 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 Marine pollutant UN1564 Barium compound, n.o.s. (Barium carbonate) 6.1 III Not applicable

#### IMDG

UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group	UN1564 Barium compound, n.o.s. (Barium carbonate) 6.1
Marine pollutant (Sea)	Not applicable
Transport in bulk according to	No information available
Annex II of MARPOL 73/78 and	
the IBC Code	
ΙΑΤΑ	
UN number	UN1564
Proper shipping name:	Barium compound, n.o.s. (Barium carbonate)
UN classfication	6.1
Subsidiary hazard class	
Packing group	111
Environmentally Hazardous Substance	Not applicable

# Section 15: REGULATORY INFORMATION

International Inventories EINECS/ELINCS TSCA	Listed Listed	
Japanese regulations		
Fire Service Act	Firefighting Inhibitor	
Poisonous and Deleterious	Deleterious Substances 3rd. Grade	
Substances Control Law		
Industrial Safety and Health ActNot applicable		
Regulations for the carriage	Toxic Substances - Poison (Ordinance Art.3, Ministry of Transportation Ordinance	
and storage of dangerous	Regarding Transport by Ship and Storage, Attached Table 1)	
goods in ship		
Civil Aeronautics Law	Toxic and Infectious Substances (Ordinance Art.194, MITL Nortification for Air Transportation of Explosives etc., Attached Table 1)	
Pollutant Release and Transfer	Not applicable	
Register Law		
(~2023.3.31)		
Pollutant Release and Transfer	Not applicable	
Register Law		
<u>(2023/4/1~)</u>	Netersteele	
Export Trade Control Order	Not applicable	

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2) (~2024.3.31)	Pollutant Release and Transfer Register Law (~2023.3.31)
Barium carbonate 513-77-9(99.9 (subtracting method) )	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.Ltd. Chemical Dictionary, Kyouritsu Publishing Co., Ltd. etc

### Disclaimer

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