



# SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 04-Oct-2023 Revision Number 5.05

### Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Barium Acetate, 99.9%
Product Code	027-10681,025-10682
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	+81-6-6203-3741 / +81-3-3270-8571
Recommended uses	For research use only
Restrictions on use	Seek expert judgment when using for purposes other than those recommended.

#### Section 2: HAZARDS IDENTIFICATION

**GHS** classification Classification of the substance or mixture Acute toxicity - Oral Category 4 Specific target organ toxicity (single exposure) Category 1, Category 3 Category 1 nervous system, cardiovascular system, muscles, kidneys, Digestive tract Category 3 Respiratory irritation Specific target organ toxicity (repeated exposure) Category 1 Category 1 cardiovascular system **Pictograms** 

Signal word

Danger

#### **Hazard statements**

- H302 Harmful if swallowed
- H335 May cause respiratory irritation
- H370 Causes damage to the following organs: nervous system, cardiovascular system, muscles, kidneys, Digestive tract
- H372 Causes damage to the following organs through prolonged or repeated exposure: cardiovascular system

#### **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: Call a POISON CENTER or doctor/physician if you feel unwell
- 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

(CH3COO)2Ba

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Barium acetate	99.9	255.42	(2)-693	(9)-449	543-80-6
	(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

Water spray (fog), Carbon dioxide (CO2), Foam, Extinguishing powder, Sand

### 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**

Avoid contact with strong oxidizing agents. 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

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

#### Storage

Safe storage conditions	
Storage conditions	

Storage conditions	Store away from sunlight in well-ventilated place at room temperature (preferably cool).
	Keep container tightly closed. Store locked up.
Safe packaging material	Glass
Incompatible substances	Strong oxidizing agents

### 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
Barium acetate	N/A	N/A	TWA: 0.5 mg/m <sup>3</sup> Ba
543-80-6			_

#### Personal protective equipment Respiratory protection

Hand protection Eye protection Skin and body protection Dust mask ( JIS T 8151 ) chemical protective gloves ( JIS T 8116 ) 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 Boiling point, initial boiling point and boiling range Flammability Evaporation rate:

white crystals - crystalline powder no data available Flammability (solid, gas): 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

no data available no data available no data available no data available no data available 7.4 - 8.5 ( 50g/L, 25°C ) no data available no data available water : freely soluble . Ethanol : slightly soluble . no data available no data available 2.468 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

 Conditions to avoid
 Extremes of temperature and direct sunlight

 Incompatible materials
 Strong oxidizing agents

 Hazardous decomposition products
 Carbon monooxide (CO), Carbon dioxide (CO2), Metal oxides

# Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity				
Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50	
Barium acetate	300 - 2,000 mg/kg ( Rat )	N/A	N/A	
Chemical Name	Acute toxicity -oral- source	Acute toxicity -dermal- source	Acute toxicity -inhalation gas-	

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
Barium acetate	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.

Based on the NITE GHS

classification results.

#### Skin irritation/corrosion

Barium acetate

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

Based on the NITE GHS

classification results.

Barium acetate Based on the NITE GHS classification results.	
Carcinogenicity	
Chemical Name	Carcinogenicity source information

#### Reproductive toxicity

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

Substance

### Section 15: REGULATORY INFORMATION

Japanese regulations Fire Service Act Poisonous and Deleterious Substances Control Law	Not applicable Deleterious Substances 3rd. Grade
	tHarmful Substances Whose Names Are to be Indicated on the Label (Law Art.57,
industrial Safety and Health Ac	Para.1, Enforcement Order Art.18)
	Notifiable Substances (Law Art.57-2, Enforcement Oder Art.18-2 Attached Table No.9)No.449
Regulations for the carriage and storage of dangerous goods in ship	Not applicable
Civil Aeronautics Law	Not applicable
Pollutant Release and Transfer	Not applicable
Register Law (2023.4.1-)	
Export Trade Control Order	Not applicable

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2)	Pollutant Release and Transfer Register Law (2023.4.1-)
Barium acetate 543-80-6(99.9 (subtracting method) )	Applicable	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 Z 7252:2019. \*JIS: Japanese Industrial Standards

End of Safety Data Sheet