



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 22-Dec-2023

Revision Number 1

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	1,4-Dibromobenzene-d4
Product Code	042-35011

Supplier FUJIFILM Wako Pure Chemical Corporation

1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan

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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

Specific target organ toxicity (repeated exposure) Category 1, Category 2

Category 1 kidneys Category 2 liver

Acute aquatic toxicity
Chronic aquatic toxicity
Category 1
Category 1

**Pictograms** 





Signal word

Danger

#### **Hazard statements**

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H372 - Causes damage to the following organs through prolonged or repeated exposure: kidneys

H373 - May cause damage to the following organs through prolonged or repeated exposure: liver

#### **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
- Avoid release to the environment

## Precautionary statements-(Response)

- · Get medical advice/attention if you feel unwell
- Collect spillage

## Precautionary statements-(Storage)

Not applicable

## **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 C6D4Br2

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
1,4-Dibromobenzene-d4	97.0	239.93	N/A	N/A	4165-56-4

Note on ISHL No.:

## **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

<sup>\*</sup> in the table means announced chemical substances.

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 Keep container protect from light and tightly closed in well ventilated cool place under

25°C Packed with an inert gas.

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**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 Dust mask ( JIS T 8151 )

**Hand protection** chemical protective gloves (JIS T 8116) **Eye protection** protective eyeglasses or chemical safety goggles

Skin and body protection Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

## **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Form** 

White - slightly yellow Color **Appearance** crystals - powder no data available Odor no data available Melting point/freezing point no data available Boiling point, initial boiling point and boiling range **Flammability** no data available no data available **Evaporation rate:** Flammability (solid, gas): no data available

Upper/lower flammability or

explosive limits

Upper:no data availableLower:no data available

Flash point no data available
Auto-ignition temperature: no data available
Decomposition temperature: no data available
pH no data available
Viscosity (coefficient of viscosity) no data available
Dynamic viscosity no data available

**Solubilities** ethanol, acetone : soluble . water : practically insoluble .

n-Octanol/water partition coefficient:(log Pow)no data availableVapour pressureno data availableSpecific Gravity / Relative densityno data availableVapour densityno data availableParticle characteristicsno data available

## **Section 10: STABILITY AND REACTIVITY**

### **Stability**

Reactivity no data available
Chemical stability May be altered by light.

**Hazardous reactions** 

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight

Incompatible materials

Strong oxidizing agents

**Hazardous decomposition products** 

Carbon monooxide (CO), Carbon dioxide (CO2), Halides

## **Section 11: TOXICOLOGICAL INFORMATION**

Data as deuterium compound has not been obtained. The data of non-labeled compound is described.

#### **Acute toxicity**

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
1,1 212101110201120110 41			Based on the NITE GHS classification results.

Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information
1,1 Dibioinioponzono di			Based on the NITE GHS classification results.

## Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information	
1,4-Dibromobenzene-d4 Based on the NITE GHS classification results.		
Serious eye damage/ irritation		
Chemical Name	Serious eye damage/irritation source information	
1,4-Dibromobenzene-d4	Based on the NITE GHS classification results.	
Respiratory or skin sensitization		
Chemical Name	Respiratory or Skin sensitization source information	
1,4-Dibromobenzene-d4	Based on the NITE GHS classification results.	
Reproductive cell mutagenicity		
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Chemical Name	germ cell mutagencity source information
1,4-Dibromobenzene-d4	Based on the NITE GHS classification results.
Carcinogenicity	

	Carcinogenicity			
Chemical Name		Carcinogenicity source information		
	1,4-Dibromobenzene-d4	Based on the NITE GHS classification results.		

Reproductive toxicity

Chemical Name	Reproductive toxicity source information	
1,4-Dibromobenzene-d4	Based on the NITE GHS classification results.	
STOT-single exposure		

Chemical Name	STOT -single exposure- source information
1,4-Dibromobenzene-d4	Based on the NITE GHS classification results.

STOT-repeated exposure

Chemical Name	STOT -repeated exposure- source information
1,4-Dibromobenzene-d4	Based on the NITE GHS classification results.
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Aspiration hazard

To bill differ in differ di		
Chemical Name	Aspiration Hazard source information	
1,4-Dibromobenzene-d4	Based on the NITE GHS classification results.	

## **Section 12: ECOLOGICAL INFORMATION**

Data as deuterium compound has not been obtained. The data of non-labeled compound is described.

#### **Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
1,4-Dibromobenzene-d4	N/A	LC50 : Pimephales Promelas	N/A
		0.68 mg/L 96 h	

#### Other data

Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the
	aquatic environment source information	aquatic environment source information
1,4-Dibromobenzene-d4	Based on the NITE GHS classification	Based on the NITE GHS classification
	results.	results.

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

## **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 UN3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (1,4-Dibromobenzene-d4)

**UN classfication** 

Subsidiary hazard class Packing group Ш

Marine pollutant Yes

**IMDG** 

**UN** number UN3077

Environmentally hazardous substance, solid, n.o.s. (1,4-Dibromobenzene-d4) Proper shipping name:

**UN classfication** 

Subsidiary hazard class

Packing group III
Marine pollutant (Sea) Yes

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

**IATA** 

UN number UN3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (1,4-Dibromobenzene-d4)

UN classfication

Subsidiary hazard class

Packing group III
Environmentally Hazardous Yes

**Substance** 

## Section 15: REGULATORY INFORMATION

Japanese regulations

Fire Service Act
Poisonous and Deleterious
Substances Control Law
Not applicable
Not applicable

Industrial Safety and Health Act Not applicable

Regulations for the carriage

Noxious Substances (Ordinance Art.3, Ministry of Transportation Ordinance Regarding Transport by Ship and Storage, Attached Table 1)

and storage of dangerous goods in ship

Transport by Snip and Storage, Attached Table 1)

Civil Aeronautics Law

Misellaneous Dangerous Substances and Articles (Ordinance Art.194, MITL Nortification for Air Transportation of Explosives etc., Attached Table 1)

Pollutant Release and Transfer Not applicable

Pollutant Release a

Register Law (2023.4.1-)

**Export Trade Control Order** 

Appendix 1 Export licensed items

## **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**