



SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 09-Feb-2023

Revision Number 2.03

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Dibromomethane	
Product Code	135-04842,139-04845	
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	+81-6-6203-3741 / +81-3-3270-8571 For research use only	

Section 2: HAZARDS IDENTIFICATION

GHS classification

restrictions on use

Classification of the substance or mixture

Acute toxicity - Inhalation (Vapors)Category 4Skin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2AReproductive ToxicityCategory 2Specific target organ toxicity (single exposure)Category 3

Category 3 Narcotic effects

Acute aquatic toxicity
Chronic aquatic toxicity
Category 3
Category 3

Pictograms





Signal word

Warning

Hazard statements

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H361 - Suspected of damaging fertility or the unborn child

H336 - May cause drowsiness or dizziness

H402 - Harmful to aquatic life

H412 - Harmful to aquatic life with long lasting effects

Precautionary statements-(Prevention)

- · Obtain special instructions before use
- · Do not handle until all safety precautions have been read and understood

- Use personal protective equipment as required
- Avoid breathing dust/fume/gas/mist/vapors/spray
- · Use only outdoors or in a well-ventilated area
- · Wash face, hands and any exposed skin thoroughly after handling
- · Avoid release to the environment

Precautionary statements-(Response)

- IF exposed or concerned: Get medical advice/attention
- 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 ON SKIN: Wash with plenty of soap and water
- If skin irritation occurs: Get medical advice/attention
- · Take off contaminated clothing and wash before reuse
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Precautionary statements-(Storage)

- · Store locked up
- Store in a well-ventilated place. Keep container tightly closed

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 CH2Br2

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Dibromomethane	99.0	173.83	(9)-1417	*	74-95-3

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

Absorb dry sand, earth, sawdust and the waste. Collect empty container that can be sealed.

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

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, store

in well-ventilated place at room temperature (preferably cool). Keep container tightly

closed.

Safe packaging material Glass

Incompatible substances No information available

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 Protective mask **Hand protection** Protection gloves

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

Colorless - slightly yellow Color

clear **Turbidity**

liquid **Appearance**

characteristic odor Odor

-52 °C 97 °C Melting point/freezing point Boiling point, initial boiling point and boiling range

Flammability no data available Evaporation rate: no data available Flammability (solid, gas): no data available

Upper/lower flammability or

explosive limits

Upper: no data available no data available Lower: no data available Flash point no data available Auto-ignition temperature: **Decomposition temperature:** no data available no data available Viscosity (coefficient of viscosity) no data available

Dynamic viscosity no data available **Solubilities** Ethanol, acetone: Very soluble. water: slightly soluble.

n-Octanol/water partition coefficient:(log Pow) 1.70

Vapour pressure no data available

Specific Gravity / Relative density 2.492 -2.498 g/m L (20°C)

no data available Vapour density **Particle characteristics** no data available

Section 10: STABILITY AND REACTIVITY

Stability

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

Hazardous reactions

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight

Incompatible materials

No information available

Hazardous decomposition products

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

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Dibromomethane	>1,000 mg/kg (Rat)	> 4 g/kg (Rabbit)	40,000 mg/m³ (Rat) 2 h

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

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

Aspiration Hazard source information

Based on the NITE GHS classification results.

Skin irritation/corrosion

Skiii iiiitatioii/corrosioii	
Chemical Name	Skin corrosion/irritation source information
Dibromomethane	Based on the NITE GHS classification results.
Serious eye damage/ irritation	
Chemical Name	Serious eye damage/irritation source information
Dibromomethane	Based on the NITE GHS classification results.
Respiratory or skin sensitization	<u> </u>
Chemical Name	Respiratory or Skin sensitization source information
Dibromomethane	Based on the NITE GHS classification results.
Reproductive cell mutagenicity	·
Chemical Name	germ cell mutagencity source information
Dibromomethane	Based on the NITE GHS classification results.
Carcinogenicity	<u> </u>
Chemical Name	Carcinogenicity source information
Dibromomethane	Based on the NITE GHS classification results.
	<u> </u>
Reproductive toxicity	
Chemical Name	Reproductive toxicity source information
Dibromomethane	Based on the NITE GHS classification results.
STOT-single exposure	
Chemical Name	STOT -single exposure- source information
Dibromomethane	Based on the NITE GHS classification results.
STOT-repeated exposure	<u> </u>
Chemical Name	STOT -repeated exposure- source information
Dibromomethane	Based on the NITE GHS classification results.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Aspiration hazard

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Dibromomethane	N/A	LC50 : Oncorhynchus mykiss	N/A
		45 mg/L 96 h	

Other data

_	Other data						
	Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the				
		aquatic environment source	aquatic environment source				
		information	information				
	Dibromomethane	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

Chemical Name

Dibromomethane

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

UN2664 **UN** number

Dibromomethane Proper shipping name:

UN classfication 6 1

Subsidiary hazard class

Packing group

Marine pollutant Not applicable

IMDG

UN number UN2664

Proper shipping name: Dibromomethane

UN classfication 6.1

Subsidiary hazard class

Packing group

Not applicable Marine pollutant (Sea)

No information available Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

IATA

UN2664 **UN** number

Proper shipping name: Dibromomethane

UN classfication

Subsidiary hazard class

Packing group Ш

Not applicable **Environmentally Hazardous**

Substance

Section 15: REGULATORY INFORMATION

International Inventories

EINECS/ELINCS Listed Listed **TSCA**

Japanese regulations

Fire Service Act Not applicable **Poisonous and Deleterious** Not applicable

Substances Control Law

Industrial Safety and Health Act Mutagens - Existing Chemicals

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

Toxic and Infectious Substances (Ordinance Art.194, MITL Nortification for Air **Civil Aeronautics Law**

Transportation of Explosives etc., Attached Table 1)

Enforcement ordinance Appendix No. 1 Noxious liquid substance Category Y **Marine Pollution Prevention**

Law

Pollutant Release and Transfer Not applicable

Register Law $(\sim 2023.3.31)$

Pollutant Release and Transfer

Not applicable

Register Law (2023/4/1~)

Export Trade 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.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