



# SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 05-Mar-2024 Revision Number 2.07

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Bromoacetone
Product Code	029-06812,021-06811

FUJIFILM Wako Pure Chemical Corporation **Supplier** 

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

Phone: +81-6-6203-3741 Fax: +81-6-6203-2029

+81-6-6203-3741 / +81-3-3270-8571 **Emergency telephone number** 

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

Flammable liquids Category 2 **Acute toxicity - Inhalation (Vapors)** Category 1 Skin corrosion/irritation Category 2 Category 2A Serious eye damage/eye irritation Category 3

Specific target organ toxicity (single exposure)

Category 3 Respiratory irritation

**Pictograms** 





Signal word

Danger

## **Hazard statements**

H225 - Highly flammable liquid and vapor

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H330 - Fatal if inhaled

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
- · Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- · Keep container tightly closed
- · Ground/bond container and receiving equipment
- Use explosion-proof electrical/ ventilating / lighting / equipment
- · Use only non-sparking tools
- Take precautionary measures against static discharge

Keep cool

#### 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 skin irritation occurs: Get medical advice/attention
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- · Wash contaminated clothing before reuse
- 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
- In case of fire: Use suitable extinguishing media for extinction

## 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 CH3COCH2Br

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Bromoacetone	80.0	136.98	N/A	N/A	598-31-2

Note on ISHL No.: \* in the table means announced chemical substances.

Impurities and/or Additives: Calcium Carbonate, 0.2-0.4%

# **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. Vapors may form explosive mixtures with air

### 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**

Highly flammable. Avoid contact with high temperature objects, spark, and strong oxidizing agents. To cut with care and wear protective gloves and protective goggles to ampoule time of the opening (Cutting method to check the label). 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

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

## Storage

Safe storage conditions

Storage conditions Keep container protect from light tightly closed. Store in a cool (2-10 °C) place. Store

locked up. Ampoule

Safe packaging material

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** gas mask for organic gas (JIS T 8152) **Hand protection** chemical protective gloves (JIS T 8116)

Eye protection protective eyeglasses or chemical safety goggles (JIS T 8147)

Skin and body protection Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

If this product is classified as "Chemical Substances Hazardous to Skin, etc.", use appropriate protective equipment to them.

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

**Form** 

ColorColorless - blackTurbidityclear ~ muddy

Appearance liquid

Odor Lachrymator, Pungent odor

Melting point/freezing point -37 °C
Boiling point, initial boiling point and boiling range 136 °C

Flammability Highly flammable liquid and vapor

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

Upper/lower flammability or explosive limits

Upper:no data availableLower:no data available

Flash point 21 °C

Auto-ignition temperature:no data availableDecomposition temperature:no data availablepHno data availableViscosity (coefficient of viscosity)no data availableDynamic viscosityno data available

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

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

no data available

Vapour pressureno data availableSpecific Gravity / Relative density1.63

Vapour density 4.8

Particle characteristics no 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, Heat, flames and sparks, static electricity, spark

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

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

## Section 11: TOXICOLOGICAL INFORMATION

**Acute toxicity** 

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Bromoacetone	N/A	N/A	0.056mg/L/4H

Chemical Name	Acute toxicity -oral- source	Acute toxicity -dermal- source	Acute toxicity -inhalation gas-
	information	information	source information

Aspiration Hazard source information

Based on the NITE GHS classification results.

	December 11 - NITE OUG	December the NITE OLIC	December 11 - NITE OUG
Bromoacetone	Based on the NITE GHS	Based on the NITE GHS classification results.	Based on the NITE GHS
	classification results.	ciassincation results.	classification results.
Chemical Name	Acute toxicity -inhalation	Acute toxicity -inhalation dust-	Acute toxicity -inhalation mist
	vapor- source information	source information	source information
Bromoacetone	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	Classification results.	classification results.	classification results.
Skin irritation/corrosion			
	ical Name	Skin corrosion/irrita	tion source information
Brom	oacetone	Based on the NITE GHS classi	fication results.
Serious eye damage/ irritation	<u> </u>	•	
	ical Name	Serious eye damage/irr	itation source information
Brom	oacetone	Based on the NITE GHS classification results.	
Respiratory or skin sensitizati	on		
Chem	ical Name	Respiratory or Skin sensitization source information	
	oacetone	Based on the NITE GHS classification results.	
Reproductive cell mutagenicit			
Chem	ical Name	germ cell mutagencity source information	
	oacetone	Based on the NITE GHS classification results.	
Carcinogenicity			
	ical Name	Carcinogenicity source information	
Brom	oacetone	Based on the NITE GHS classification results.	
Reproductive toxicity			
	ical Name	Reproductive toxic	ity source information
Brom	oacetone	Based on the NITE GHS classi	fication results.
STOT-single exposure			
	ical Name	STOT -single exposure- source information	
Brom	oacetone	Based on the NITE GHS classi	fication results.
STOT-repeated exposure			
Chem	ical Name	STOT -repeated expo	sure- source information
Brom	oacetone	Based on the NITE GHS classi	fication results.

# **Section 12: ECOLOGICAL INFORMATION**

**Ecotoxicity** No information available

**Chemical Name** 

Bromoacetone

# Other data

**Aspiration hazard** 

Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the
	aquatic environment source information	aquatic environment source information
Bromoacetone	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

# **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

UN1569 **UN** number Proper shipping name: Bromoacetone

**UN classfication** 6.1 Subsidiary hazard class 3 Ш Packing group Marine pollutant Yes

**IMDG** 

**UN** number UN1569 Proper shipping name: Bromoacetone

**UN classfication** 6.1 Subsidiary hazard class 3, P Packing group Ш Marine pollutant (Sea) Yes

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

**IATA** Forbidden **UN** number UN1569 Proper shipping name: Bromoacetone

**UN classfication** 6.1 Subsidiary hazard class

Packing group

**Environmentally Hazardous** 

Substance

# **Section 15: REGULATORY INFORMATION**

Japanese regulations

**Fire Service Act** Category IV, Class II petroleums, dangerous grade 3

**Poisonous and Deleterious** Deleterious Substances 2nd. Grade

Yes

**Substances Control Law** 

Industrial Safety and Health Act Dangerous Substances - Flammable Substance (Enforcement Order Attached Table 1

Item 4)

Industrial Safety and Health Act ( [2024.4.1~] Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57) 2024~) 【2024.4.1~】Notifiable Substances (Law Art.57-2)

Regulations for the carriage

and storage of dangerous

Regarding Transport by Ship and Storage, Attached Table 1)

Toxic Substances - Poison (Ordinance Art.3, Ministry of Transportation Ordinance

goods in ship

**Civil Aeronautics Law** Forbidden (Ordinance Art.194)

Marine pollutants (P and PP substances) **Marine Pollution Prevention** 

I aw

Pollutant Release and Transfer Not applicable

Register Law (2023.4.1-)

**Export Trade Control Order** 

Not applicable

**Industrial Safety and Health Law** 

Law Name	Chemical Name in Regulation	Weight %	
Notifiable Substances (Law Art.57-2)	bromoacetone		2024/4/1

Chemical Name	Poisonous and Deleterious	Industrial Safety and Health Act	Pollutant Release and Transfer
	Substances Control Law	Substances	Register Law
		(Law Art.57-2)	(2023.4.1-)

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-)
Bromoacetone 598-31-2 ( 80.0 )	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

Record of SDS revisions Disclaimer

The following contents were revised. Regulatory information.

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**