



SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 28-Jan-2023 Revision Number 5.03

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Benzyl Bromide
Product Code	025-01353,029-01356,029-01351
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 <u>Classification of the substance or mixture</u> Flammable liquids Skin corrosion/irritation Serious eye damage/eye irritation Specific target organ toxicity (single exposure) <u>Category 3</u> Respiratory irritation

Category 4 Category 2 Category 2A Category 3

Pictograms



Warning

Hazard statements

- H227 Combustible liquid
- H315 Causes skin irritation
- H319 Causes serious eye irritation
- 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 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 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
- Call a POISON CENTER or doctor/physician if you feel unwell
- In case of fire: Use CO2, dry chemical, or foam 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

C6H5CH2Br

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Benzyl Bromide	98.0	171.03	(3)-2689,(3)-88	公表	100-39-0
Note on ISHL No.:	* in the	table means announ	iced chemical substa	inces.	

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

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

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 Incompatible substances
 Glass

 Strong oxidizing agents
 Strong oxidizing agents

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

Eye protection

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 Hand protection

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

Skin and body protection General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form Color Turbidity Appearance Odor Melting point/freezing point Boiling point, initial boiling point and boiling range Flammability Evaporation rate: 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)

Specific Gravity / Relative density

no data available 86 °C no data available Ethanol , acetone : soluble . water : practically insoluble,or insoluble . no data available no data available 1.438 - 1.444 g/mL 5.94 (air=1) no data available

Colorless - pale yellow

no data available

clear

liauid

-4 °C

198 °C

Section 10: STABILITY AND REACTIVITY

Stability

Vapour pressure

Vapour density

Particle characteristics

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	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
Benzyl Bromide	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	Acute toxicity -inhalation dust-	Acute toxicity -inhalation mist-
	vapor- source information	source information	source information
Benzyl Bromide	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
y	classification results.	classification results.	classification results.

Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information
Benzyl Bromide	Based on the NITE GHS classification results.

Serious eye damage/ irritation

Chemical Name	Serious eye damage/irritation source information
Benzyl Bromide	Based on the NITE GHS classification results.
Respiratory or skin sensitization	
	Respiratory or Skin sensitization source information
Benzyl Bromide	Based on the NITE GHS classification results.
Reproductive cell mutagenicity	
Chemical Name	germ cell mutagencity source information
Benzyl Bromide	Based on the NITE GHS classification results.
Carcinogenicity	· · · ·
Chemical Name	Carcinogenicity source information
Benzyl Bromide	Based on the NITE GHS classification results.
Reproductive toxicity Chemical Name	Reproductive toxicity source information
Chemical Name	Reproductive toxicity source information
Benzyl Bromide	Based on the NITE GHS classification results.
STOT-single exposure	
Chemical Name	STOT -single exposure- source information
Benzyl Bromide	Based on the NITE GHS classification results.
STOT-repeated exposure	
Chemical Name	STOT -repeated exposure- source information
Benzyl Bromide	Based on the NITE GHS classification results.
Aspiration hazard	
Chemical Name	Aspiration Hazard source information
Benzyl Bromide	Based on the NITE GHS classification results.

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
Benzyl Bromide	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	UN1737
Proper shipping name:	Benzyl bromide
UN classfication	6.1
Subsidiary hazard class	8
Packing group	II
Marine pollutant	Not applicable

IMDG	
UN number	UN1737
Proper shipping name:	Benzyl bromide
UN classfication	6.1
Subsidiary hazard class	8
Packing group	II
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	UN1737
Proper shipping name:	Benzyl bromide
UN classfication	6.1
Subsidiary hazard class	8
Packing group	II
Environmentally Hazardous	Not applicable
Substance	

Section 15: REGULATORY INFORMATION

International Inventories	
EINECS/ELINCS	Listed
TSCA	Listed
Japanese regulations	
Fire Service Act	Category IV, Class III petroleums, dangerous grade 3
Poisonous and Deleterious	Not applicable
Substances Control Law	
Industrial Safety and Health Ac	t 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	
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	r Not applicable
Register Law	
(~2023.3.31)	
Pollutant Release and Transfer	Not applicable
Register Law	
<u>(2023/4/1~)</u>	
Export Trade Control Order	Not applicable
	Section 16: OTHER INFORMATION
Key literature references and	NITE: National Institute of Technology and Evaluation (JAPAN)
sources for data etc.	http://www.safe.nite.go.jp/japan/db.html
	IATA dangerous Goods Regulations
	RTECS:Registry of Toxic Effects of Chemical Substances

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.

Chemical Dictionary, Kyouritsu Publishing Co., Ltd.

Japan Industrial Safety and Health Association GHS Model SDS

Dictionary of Synthetic Oraganic Chemistry, SSOCJ, Koudansha Scientific Co.Ltd.

GHS Classification is according to JIS Z7252(2019). *JIS: Japanese Industrial Standards

etc

End of Safety Data Sheet