



SAFETY DATA SHEET

According to JIS Z 7253:2019 Issue Date 07-May-2025 Revision Number 8.06

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	t Name DBP Standard	
Product Code	047-16521	
Supplier	FUJIFILM Wako Pure Chemical Corporation	

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Emergency telephone number +81-6-6203-3741 / +8
Recommended uses +81-6-6203-3741 / +8
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

Skin sensitizationCategory 1Reproductive ToxicityCategory 1BSpecific target organ toxicity (single exposure)Category 3

Category 3 Respiratory irritation

Specific target organ toxicity (repeated exposure) Category 1

Category 1 respiratory system

Acute aquatic toxicity
Chronic aquatic toxicity
Category 1
Category 2

Pictograms



Hazard statements

H360 - May damage fertility or the unborn child

H335 - May cause respiratory irritation

H317 - May cause an allergic skin reaction

H400 - Very toxic to aquatic life

H411 - Toxic to aquatic life with long lasting effects

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

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
- Contaminated work clothing should not be allowed out of the workplace
- Wear protective gloves
- 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
- · Avoid release to the environment

Precautionary statements-(Response)

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

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 C6H4[COO(CH2)3CH3]2

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Dibutyl phthalate	99.5	278.34	(3)-1303	*	84-74-2

Note on ISHL No.:

* in the table means announced chemical substances.

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

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

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.Use with local exhaust ventilation. 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. 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

Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
Dibutyl phthalate	TWA: 5 mg/m³ OEL	N/A	TWA: 5 mg/m ³
84-74-2	-		-

Chemical Name	Concentration standard value set by the Minister of Health, Labor and Welfare (8hr)	Concentration standard value set by the Minister of Health, Labor and Welfare (Short-Term)
Dibutyl phthalate	0.5 mg/m³	N/A

Chemical Name	Concentration standard value set by	Concentration standard value set by
	the Minister of Health, Labor and	the Minister of Health, Labor and
	Welfare (8hr)	Welfare (Short-Term)
84-74-2		

Personal protective equipment

Respiratory protection Protective mask

Hand protection chemical protective gloves (JIS T 8116)

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

Long-sleeved work clothes Skin and body protection

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

Color colorless **Turbidity** clear **Appearance** liquid

Odor characteristic odor

-35 °C Melting point/freezing point Boiling point, initial boiling point and boiling range 340 °C

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

Upper/lower flammability or explosive limits

2.5 vlo% Upper: 0.5 vol% Lower: 171 °C Flash point >370 °C Auto-ignition temperature: **Decomposition temperature:** no data available no data available

pН no data available Viscosity (coefficient of viscosity) **Dynamic viscosity** no data available

Solubilities Ethanol, acetone: Very soluble. water: practically insoluble, or

insoluble.

n-Octanol/water partition coefficient:(log Pow) 4.72 < 0.01 Vapour pressure Specific Gravity / Relative density 1.049

Vapour density no data available 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)

Section 11: TOXICOLOGICAL INFORMATION

*NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Dibutyl phthalate	6,300 mg/kg (Rat)	>= 4,000 mg/kg (Rabbit)	15.68 mg/L (Rat) 4 h
			>= 15.68 mg/L (Rat) 4 h

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
2 a.r.y . p a.r.a.r.o			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
= 1.5 dity : p			Based on the NITE GHS classification results.

Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information	
Dibutyl phthalate	Based on the NITE GHS classification results.	
Serious eye damage/ irritation		

Chemical Name	Serious eye damage/irritation source information	
Dibutyl phthalate	Based on the NITE GHS classification results.	
Respiratory or skin sensitization		

Chemical Name	Respiratory or Skin sensitization source information
Dibutyl phthalate	Based on the NITE GHS classification results.
Daniel distriction and most amortists	

Reproductive cell mutagenicity

	Chemical Name	germ cell mutagencity source information
	Dibutyl phthalate	Based on the NITE GHS classification results.
ľ	Carcinogenicity	

Carcinogenicity

Chemical Name	Carcinogenicity source information	
Dibutyl phthalate	Based on the NITE GHS classification results.	

Reproductive toxicity

Chemical Name	Reproductive toxicity source information	
Dibutyl phthalate	ate Based on the NITE GHS classification results.	
STOT-single exposure		
Chemical Name STOT -single exposure- source informati		
Dibutyl phthalate	Based on the NITE GHS classification results.	

STOT-repeated exposure

Chemical Name	STOT -repeated exposure- source information	
Dibutyl phthalate	Based on the NITE GHS classification results.	
Assiration borard		

Aspiration hazard

Chemical Name Aspiration Hazard source inform	
Dibutyl phthalate	Based on the NITE GHS classification results.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Dibutyl phthalate	EC50 : Desmodesmus	LC50 : Perca flavescens	EC50 : Gammaridea
	subspicatus	0.35 mg/L 96 h	0.10 mg/L 10 d
	1.2 mg/L 72 h	LC50 : Rainbow trout	
	EC50 : Pseudokirchneriella	0.10 mg/L 99 d	

^{*}NITE: National Institute of Technology and Evaluation (JAPAN) $https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput\\$

subcapitata	
0.4 mg/L 96 h	

Other data

Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the	
i	aquatic environment source information	aquatic environment source information	
Dibutyl phthalate	Based on the NITE GHS classification	Based on the NITE GHS classification	
	results.	results.	

Persistence and degradability

Degree of decomposition. 69 % by BOD (METI Existing chemical safety inspections)

Bioaccumulative potential Mobility in soil

Bioaccumulative potential 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 UN3082

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Dibutyl phthalate)

UN classfication

Subsidiary hazard class

Packing group III
Marine pollutant Yes

IMDG

UN number UN3082

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Dibutyl phthalate)

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 UN3082

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Dibutyl phthalate)

UN classfication

Subsidiary hazard class

Packing group III
Environmentally Hazardous Yes

Substance

Section 15: REGULATORY INFORMATION

Japanese regulations

Fire Service Act Category IV, Class III petroleums, dangerous grade 3

Poisonous and Deleterious No

Substances Control Law

Not applicable

Industrial Safety and Health Act Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57)

Notifiable Substances (Law Art.57-2)

Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1) Noxious Substances (Ordinance Art.3, Ministry of Transportation Ordinance Regarding

Regulations for the carriage and storage of dangerous goods in ship

Transport by Ship 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)

Marine Pollution Prevention

Law

Enforcement ordinance Appendix No. 1 Noxious liquid substance Category X

Pollutant Release and Transfer Class 1

Register Law (2023.4.1-)

Class 1 - No. 354

Air Pollution Control Law Hazardous Air Pollutants

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-)
Dibutyl phthalate 84-74-2 (99.5)	-	Applicable	Applicable

Section 16: OTHER INFORMATION

Key literature references and sources for data etc.

NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput

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

The following contents were revised. Fire fighting measures. Exposure controls/personal

protection. Ecological information. Regulatory information.

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