



# SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 05-Mar-2024 Revision Number 7.06

Category 1B

Category 1 Category 3

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Diisobutyl Phthalate
Product Code	021-03815
Supplier	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741
Emergency telephone number Recommended uses Restrictions on use	Fax: +81-6-6203-2029 +81-6-6203-3741 / +81-3-3270-8571 For research use only Seek expert judgment when using for purposes other than those recommended.

Section 2: HAZARDS IDENTIFICATION

GHS classification <u>Classification of the substance or mixture</u> Reproductive Toxicity Acute aquatic toxicity Chronic aquatic toxicity

Pictograms



Signal word

Danger

#### **Hazard statements**

- H360 May damage fertility or the unborn child
- H412 Harmful to aquatic life with long lasting effects
- H400 Very toxic to aquatic life

### 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 release to the environment
- **Precautionary statements-(Response)** 
  - IF exposed or concerned: Get medical advice/attention
  - · Collect spillage

# Precautionary statements-(Storage)

- 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

### C6H4[COOCH2CH(CH3)2]2

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Diisobutyl Phthalate	97.0	278.34	(3)-1303	*	84-69-5
Nata an ICLII. Na i	* in the	table means annous	and chamical autots		

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**

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

Incompatible substances

Safe packaging material

Store away from sunlight in well-ventilated place at room temperature (preferably cool). Keep container tightly closed. Glass 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 chemical protective gloves (JIS T 8116) protective eyeglasses or chemical safety goggles (JIS T 8147) 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 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:

Colorless - slightly yellow clear liquid no data available -50 °C 320 °C no data available no data available no data available

no data available no data available

- Flash point Auto-ignition temperature: Decomposition temperature: pH Viscosity (coefficient of viscosity) Dynamic viscosity Solubilities n-Octanol/water partition coefficient:(log Pow) Vapour pressure Specific Gravity / Relative density Vapour density Particle characteristics
- 180 °C no data available no data available no data available no data available Ethanol : soluble . water : practically insoluble,or insoluble . no data available no data available 1.036 - 1.046 g/mL no data available no data available

# Section 10: STABILITY AND REACTIVITY

### Stability

 Reactivity
 no data available

 Chemical stability
 Stable under recommended storage conditions.

 Hazardous reactions
 Stable under recommended storage conditions.

 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

Acute	toxicity
/	LOAIDILY.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Diisobutyl Phthalate	>5,000 mg/kg (Rat)	>10,000 mg/kg (Marmot)	N/A

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
2			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
Diisobutyl Phthalate	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
-	classification results.	classification results.	classification results.

### Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information	
Diisobutyl Phthalate	Based on the NITE GHS classification results.	
Serious eye damage/ irritation		
Chemical Name	Serious eye damage/irritation source information	
Diisobutyl Phthalate	Based on the NITE GHS classification results.	
Respiratory or skin sensitization		
Chemical Name	Respiratory or Skin sensitization source information	
Diisobutyl Phthalate	Based on the NITE GHS classification results.	
Reproductive cell mutagenicity		
Chemical Name	germ cell mutagencity source information	
Diisobutyl Phthalate	Based on the NITE GHS classification results.	
Carcinogenicity		
Chemical Name	Carcinogenicity source information	

Diisobutyl Phthalate	Based on the NITE GHS classification results.
Reproductive toxicity	
Chemical Name	Reproductive toxicity source information
Diisobutyl Phthalate	Based on the NITE GHS classification results.
STOT-single exposure	
Chemical Name	STOT -single exposure- source information
Diisobutyl Phthalate	Based on the NITE GHS classification results.
STOT-repeated exposure	
Chemical Name	STOT -repeated exposure- source information
Diisobutyl Phthalate	Based on the NITE GHS classification results.
Aspiration hazard	
Chemical Name	Aspiration Hazard source information
Diisobutyl Phthalate	Based on the NITE GHS classification results.

# Section 12: ECOLOGICAL INFORMATION

# Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Diisobutyl Phthalate	EC50:Desmodesmus subspicatus 1 mg/L 72 h	LC50:Pimephales promelas 0.9mg/L 96h	EC50:Daphnia magna 7.4 mg/L 24 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
Diisobutyl Phthalate	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
Mobility in soil	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 Proper shipping name: UN classfication Subsidiary hazard class Packing group Marine pollutant	UN3082 Environmentally hazardous substance, liquid, n.o.s. (Diisobutyl Phthalate) 9 III Yes
IMDG UN number Proper shipping name:	UN3082 Environmentally hazardous substance, liquid, n.o.s. (Diisobutyl Phthalate)

UN classfication	9
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	
ΙΑΤΑ	
UN number	UN3082
Proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (Diisobutyl Phthalate)
UN classfication	9
Subsidiary hazard class	
Packing group	
Environmentally Hazardous	Yes
Substance	

# Section 15: REGULATORY INFORMATION

Japanese regulations				
Fire Service Act	Category IV, Class III petrole	eums, dangerous grade 3		
Poisonous and Deleterious	Not applicable			
Substances Control Law				
Industrial Safety and Health Act Not applicable				
Industrial Safety and Health Act (	【2024.4.1~】Harmful Substand	ces Whose Names Are to be Indic	ated on the Label (Law Art.57)	
<u>2024~)</u>	【2024.4.1~】Notifiable Substa	nces (Law Art.57-2)		
Regulations for the carriage	Noxious Substances (Ordina	ance Art.3, Ministry of Transpo	rtation Ordinance Regarding	
and storage of dangerous		Transport by Ship and Storage, Attached Table 1)		
goods in ship				
Civil Aeronautics Law	Misellaneous Dangerous Substances and Articles (Ordinance Art.194, MITL Nortification			
	for Air Transportation of Exp	losives etc., Attached Table 1)	·	
Marine Pollution Prevention	Enforcement ordinance Appendix No. 1 Noxious liquid substance Category X			
Law			0.1	
Pollutant Release and Transfe	r Class 2			
Register Law				
(2023.4.1-)				
Class 2 - No.	799			
Export Trade Control Order	Not applicable			
Industrial Safety and Health Law				
Law Name	Chemical Name in Regulation	Weight %		
Notifiable Substances (Law Art.57-2)	diisobutyl phthalate	97.0	2024/4/1	

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-)
Diisobutyl Phthalate 84-69-5 ( 97.0 )	-	-	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	
	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