



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 23-May-2023

Revision Number 2.05

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

| Product Name | p-Diethylbenzene |
|--------------|------------------|
| Product Code | 354-05851        |

Manufacturer FUJIFILM Wako Pure Chemical Corporation

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**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

Supplier

Classification of the substance or mixture

Flammable liquids

Skin corrosion/irritation

Serious eye damage/eye irritation

Category 2

Acute aquatic toxicity

Chronic aquatic toxicity

Category 2

Category 2

Category 2

Category 2

## **Pictograms**







Signal word

Warning

### **Hazard statements**

- H226 Flammable liquid and vapour
- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H401 Toxic to aquatic life
- H411 Toxic to aquatic life with long lasting effects

## **Precautionary statements-(Prevention)**

- · Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection
- · Avoid release to the environment
- · 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

#### 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
- In case of fire: Use CO2, dry chemical, or foam for extinction
- Collect spillage

#### Precautionary statements-(Storage)

· Store in a well-ventilated place. Keep cool

### **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(C2H5)2

| Chemical Name    | Weight-% | Molecular weight | ENCS          | ISHL No. | CAS RN   |
|------------------|----------|------------------|---------------|----------|----------|
| p-Diethylbenzene | 97       | 134.22           | (3)-13,(3)-60 | 公表       | 105-05-5 |

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

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. 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**Store away from sunlight in well-ventilated place at room temperature (preferably cool).

Keep container tightly closed.

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** 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) chemical protective gloves (JIS T 8116) **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.

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

Form

Color Colorless - pale yellow

Appearance liquid

Odor no data available

Melting point/freezing point  $$-43\ ^{\circ}\mathrm{C}$$  Boiling point, initial boiling point and boiling range  $$182\ ^{\circ}\mathrm{C}$$ 

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

Upper/lower flammability or

explosive limits

Upper:no data availableLower:no data available

Flash point 55  $^{\circ}\text{C}$  Auto-ignition temperature: 430  $^{\circ}\text{C}$ 

Decomposition temperature:no data availablepHno data availableViscosity (coefficient of viscosity)no data availableDynamic viscosityno data available

**Solubilities** water : slightly soluble . organic solvents : soluble .

n-Octanol/water partition coefficient:(log Pow)
No data available
no data available
no data available
no data available
0.860 - 0.866 g/mL
Vapour density
No data available
Particle characteristics
no data available

## **Section 10: STABILITY AND REACTIVITY**

## **Stability**

Reactivity no data available

**Chemical stability** Stable under recommended storage conditions.

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

**Acute toxicity** 

| Chemical Name Oral LD50 |                    | Dermal LD50 | Inhalation LC50 |
|-------------------------|--------------------|-------------|-----------------|
| p-Diethylbenzene        | >2,000 mg/kg (Rat) | N/A         | N/A             |

| Chemical Name    | Acute toxicity -oral- source information | Acute toxicity -dermal- source information | Acute toxicity -inhalation gas-<br>source information |
|------------------|--|--|---|
| p-Diethylbenzene | 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-<br>source information | Acute toxicity -inhalation mist-<br>source information |
|------------------|--|--|--|
| p-Diethylbenzene | 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 |
|---------------|--|
|---------------|--|

| Based on the NITE GHS classification results.        |  |
|--|--|
|  |  |
| Serious eye damage/irritation source information     |  |
| Based on the NITE GHS classification results.        |  |
| <u>.</u>   |  |
| Respiratory or Skin sensitization source information |  |
| Based on the NITE GHS classification results.        |  |
| <u>.</u>   |  |
| germ cell mutagencity source information             |  |
| Based on the NITE GHS classification results.        |  |
| ·  |  |
| Carcinogenicity source information                   |  |
| Based on the NITE GHS classification results.        |  |
|  |  |
| Reproductive toxicity source information             |  |
| Based on the NITE GHS classification results.        |  |
|  |  |
| STOT -single exposure- source information            |  |
|  |  |

Based on the NITE GHS classification results. p-Diethylbenzene Asniration hazard

Based on the NITE GHS classification results.

STOT -repeated exposure- source information

STOT-repeated exposure

| Aspiration nazaru |   |  |  |
|-------------------|---|--|--|
| Chemical Name     | Aspiration Hazard source information          |  |  |
| p-Diethylbenzene  | Based on the NITE GHS classification results. |  |  |

## **Section 12: ECOLOGICAL INFORMATION**

## **Ecotoxicity**

| Chemical Name    | Algae/aquatic plants | Fish                   | Crustacea |
|------------------|----------------------|------------------------|-----------|
| p-Diethylbenzene | N/A                  | LC50 : Oryzias latipes | N/A       |
|                  |                      | 1.8 mg/L 96h           |           |

#### Other data

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

Persistence and degradability No information available No information available **Bioaccumulative potential** Mobility in soil No information available Hazard to the ozone layer No information available

p-Diethylbenzene

**Chemical Name** 

## **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 UN2049

Proper shipping name: Diethylbenzene

**UN classfication** 

Subsidiary hazard class

Packing group Ш Marine pollutant Yes

**IMDG** 

UN2049 **UN** number Proper shipping name: Diethylbenzene

**UN classfication** 

Subsidiary hazard class

Ш Packing group 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 UN2049 Proper shipping name: Diethylbenzene

**UN classfication** 

Subsidiary hazard class

Packing group Ш **Environmentally Hazardous** Yes

**Substance** 

## **Section 15: REGULATORY INFORMATION**

International Inventories

**EINECS/ELINCS** Listed Listed **TSCA** 

Japanese regulations

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

Not applicable **Poisonous and Deleterious** 

**Substances Control Law** 

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

Item 4)

Regulations for the carriage and storage of dangerous

goods in ship

Flammable Liquids (Ordinance Art.3, Ministry of Transportation Ordinance Regarding

Transport by Ship and Storage, Attached Table 1)

**Civil Aeronautics Law** Flammable Liquids (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 Y

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

**Record of SDS revisions** The following contents were revised. Prodauct and company Identification. Exposure

controls/personal protection. 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**