



SAFETY DATA SHEET

According to JIS Z 7253:2019 **Revision date** 01-Feb-2023 Revision Number 5.02

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	1,2,4,5-Tetramethylbenzene	
Product Code	046-06282,040-06285	
Manufacturer	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741	
Supplier	Fax: +81-6-6203-5964 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> Acute aquatic toxicity Chronic aquatic toxicity

Category 1 Category 1

Pictograms



Warning

Hazard statements

H400 - Very toxic to aquatic life H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements-(Prevention) • Avoid release to the environment

Precautionary statements-(Response)

- Collect spillage
- Precautionary statements-(Storage)

Not applicable

Precautionary statements-(Disposal)

Dispose of contents/container to an approved waste disposal plant

Others Other hazards

Not available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance Single Substance or Mixture

Formula C6H2(CH3)4

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Durene	98.0	134.22	(3)-7	(3)-7	95-93-2
Note on ISHL No.:	* in the	table means announ	ced chemical substa	inces.	

* in the table means announced chemical substances.

Not applicable Impurities and/or Additives:

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.

Eve 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.

Indestion

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

Sweep up and gather scattered particles, and collect it in an empty airtight container.

Recoverly, neutralization

No information available

Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: HANDLING AND STORAGE

<u>Handling</u>	
Technical measures	
Avoid contact with strong oxidiz	ing agents. Use with local exhaust ventilation.
Precautions	
scattering. Not to generate stea then gargle In places other than	rs, such as upsetting, falling, giving a shock, and dragging Prevent leakage, overflow, and im and dust in vain. Seal the container after use. After handling, wash hands and face, and in those specified, should not be smoking or eating and drinking Should not be brought ment and gloves to rest stops Deny unnecessary entry of non-emergency personnel to the
Safety handling precautions	
	clothing. Use personal protective equipment as required.
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 Hand protection Eye protection Skin and body protection General hygiene considerations

Dust mask Protection gloves protective eyeglasses or chemical safety goggles Long-sleeved work clothes, protective boots

Handle in accordance with good industrial hygiene and safety practice.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form	
Color	White - pale brown
Appearance	crystals - crystalline powder
Odor	characteristic odor
Melting point/freezing point	77-82 °C
Boiling point, initial boiling point and boiling range	191-192 °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 available
Lower:	no data available
Flash point	no data available
Auto-ignition temperature:	no data available
Decomposition temperature:	no data available
pH	no data available
Viscosity (coefficient of viscosity)	no data available
Dynamic viscosity	no data available
Solubilities	Ethanol : soluble . water : practically insoluble,or insoluble .
n-Octanol/water partition coefficient:(log Pow)	no data available
Vapour pressure	no data available

Specific Gravity / Relative density Vapour density Particle characteristics 0.838 no data available no data available

Section 10: STABILITY AND REACTIVITY

Stability

Reactivityno data availableChemical stabilityHas sublimation.Hazardous reactionsHas sublimation.None under normal processingConditions to avoidConditions to avoidExtremes of temperature and direct sunlightIncompatible materialsStrong oxidizing agentsHazardous decomposition productsCarbon monooxide (CO), Carbon dioxide (CO2)

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity			
Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Durene	6989 mg/kg (Rat)	N/A	N/A

Skin irritation/corrosion	no data available
Serious eye damage/ irritation	no data available
Respiratory or skin sensitization	no data available
Reproductive cell mutagenicity	no data available
Carcinogenicity	no data available
Reproductive toxicity	no data available
STOT-single exposure	no data available
STOT-repeated exposure	no data available
Aspiration hazard	no data available

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

No information available

Other data

no data available

Persistence and degradabilityNo information availableBioaccumulative potentialNo information availableMobility in soilNo information availableHazard to the ozone layerNo 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	UN3077 Environmentally hazardous substance, solid, n.o.s. (Durene) 9 III Yes
IMDG	
UN number	UN3077
Proper shipping name:	Environmentally hazardous substance, solid, n.o.s. (Durene)
UN classfication	9
Subsidiary hazard class	
Packing group	
Marine pollutant (Sea)	Yes
Transport in bulk according to Annex II of MARPOL 73/78 and	no information available
the IBC Code	
IATA	
UN number	UN3077
Proper shipping name:	Environmentally hazardous substance, solid, n.o.s. (Durene)
UN classfication	9
Subsidiary hazard class	
Packing group	
Environmentally Hazardous Substance	Yes

Section 15: REGULATORY INFORMATION

International Inventories EINECS/ELINCS	Listed	
TSCA	Listed	
Japanese regulations		
Fire Service Act	Not applicable	
Poisonous and Deleterious	Not applicable	
Substances Control Law		
Industrial Safety and Health Ac	tNot applicable	
Regulations for the carriage	Noxious Substances (Ordinance Art.3, Ministry of Transportation 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 Explosives etc., Attached Table 1)	
Pollutant Release and Transfer		
	Not applicable	
Register Law		
(~2023.3.31)	A	
Pollutant Release and Transfer	Not applicable	
Register Law		
(<u>2023/4/1~)</u>	ALC: POLICE	
Export Trade Control Order	Not applicable	
Section 16: OTHER INFORMATION		

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.	Key literature references and sources for data etc.	Japan Industrial Safety and Health Association GHS Model SDS Dictionary of Synthetic Oraganic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd.
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etc

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 Z7252(2019). *JIS: Japanese Industrial Standards

End of Safety Data Sheet