



# SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 17-May-2023 Revision Number 3.05

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Propylbenzene	
Product Code	163-12232	
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	
Emergency telephone number Recommended uses Restrictions on use	Phone: +81-6-6203-3741 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 Classification of the substance or mixture Flammable liquids Acute aquatic toxicity Chronic aquatic toxicity

Category 3 Category 2 Category 2

**Pictograms** 



- **Hazard statements** H226 - Flammable liquid and vapour
  - H411 Toxic to aquatic life with long lasting effects
  - H401 Toxic to aquatic life

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

- 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
- · Wear protective gloves/protective clothing/eye protection/face protection
- **Precautionary statements-(Response)** 
  - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
  - 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

Formula

Not available

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

C6H5CH2CH2CH3

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Propylbenzene	97.0	120.19	(3)-21	*	103-65-1
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), Čarbon 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				
	o the environment without being properly handled waste water contaminated.			
	aminent and methods and materials for cleaning up			
<b>2</b>	st and the waste. Collect empty container that can be sealed.			
Recoverly, neutralization				
No information available				
Secondary disaster prevention r				
Clean contaminated objects ar	nd areas thoroughly observing environmental regulations.			
	Section 7: HANDLING AND STORAGE			
	Section 7. HANDEING AND STONAGE			
Handling				
Technical measures				
Highly flammable. Avoid conta	ct with high temperature objects, spark, and strong oxidizing agents. Use with local exhaust			
ventilation.	······································			
Precautions				
Do not rough handling containe	ers, such as upsetting, falling, giving a shock, and dragging Prevent leakage, overflow, and			
scattering. Not to generate ste	am and dust in vain. Seal the container after use. After handling, wash hands and face, and			
then gargle In places other tha	n those specified, should not be smoking or eating and drinking Should not be brought			
contaminated protective equip	ment and gloves to rest stops Deny unnecessary entry of non-emergency personnel to the			
handling area				
Safety handling precautions				
	d static electricity discharge (which might cause ignition of organic vapors). Use personal			
protective equipment as requir	ed. Avoid contact with skin, eyes or clothing.			
<u>Storage</u>				
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			
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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

gas mask for organic gas (JIS T 8152) chemical protective gloves (JIS T 8116) protective eyeglasses or chemical safety goggles Long-sleeved work clothes

# 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

Colorless - yellow brown clear liquid no data available -99 °C 160 °C Flammable liquid and vapor

no data available **Evaporation rate:** Flammability (solid, gas): no data available Upper/lower flammability or explosive limits no data available Upper: no data available Lower: Flash point 47 °C / 117 °F no data available 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 and acetone : Very 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 0.859-0.866 g/m L (20°C) Vapour density 4.2 (air = 1) **Particle characteristics** 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

 Conditions to avoid
 stable under recommended storage conditions.

 Extremes of temperature and direct sunlight, Heat, flames and sparks, static electricity, spark

 Incompatible materials
 strong oxidizing agents

 Strong oxidizing agents
 Carbon monooxide (CO), Carbon dioxide (CO2)

# Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity			
Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Propylbenzene	6040 mg/kg ( Rat )	N/A	65000 ppm (Rat)2 h
Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
Chemical Name Propylbenzene			
	information	information	source information

Chemical Name	Acute toxicity -inhalation	Acute toxicity -inhalation dust-	Acute toxicity -inhalation mist-
	vapor- source information	source information	source information
1 Topyiberizerie			Based on the NITE GHS classification results.

#### Skin irritation/corrosion

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

**Reproductive cell mutagenicity** 

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

## Reproductive toxicity

Chemical Name	Reproductive toxicity source information
Propylbenzene	Based on the NITE GHS classification results.
STOT-single exposure	
Chemical Name	STOT -single exposure- source information
Propylbenzene	Based on the NITE GHS classification results.
STOT-repeated exposure	
Chemical Name	STOT -repeated exposure- source information
Propylbenzene	Based on the NITE GHS classification results.
Aspiration hazard	
Chemical Name	Aspiration Hazard source information
Propylbenzene	Based on the NITE GHS classification results.
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# Section 12: ECOLOGICAL INFORMATION

## Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Propylbenzene	N/A	LC50: Rainbow trout	N/A
		1.55 ma/L 96 h	

#### Other data

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

#### Persistence and degradability Bioaccumulative potential Mobility in soil Hazard to the ozone layer Mobility

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

UN number	UN2364
Proper shipping name:	n-PROPYLBENZENE
UN classfication	3
Subsidiary hazard class	
Packing group	111
Marine pollutant	Yes
-	

## IMDG

UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group Marine pollutant (Sea) Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	UN2364 n-PROPYLBENZENE 3 III Yes No information available
UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group Environmentally Hazardous Substance	UN2364 n-PROPYLBENZENE 3 III Yes

# Section 15: REGULATORY INFORMATION

International Inventories EINECS/ELINCS TSCA	Listed Listed	
Japanese regulations Fire Service Act Poisonous and Deleterious Substances Control Law	Category IV, Class II petroleums, dangerous grade 3 Not applicable	
Industrial Safety and Health Ac	t 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 Register Law (2023.4.1-)	Not applicable	
Export Trade Control Order	Not applicable	
Offensive Odor Control Law	Specified Offensive Odor Substances	
Section 16: OTHER INFORMATION		
Key literature references and	NITE: National Institute of Technology and Evaluation (JAPAN)	

Key literature references and<br/>sources for data etc.NITE: National Institute of Technology and Evaluation (JAPAN)<br/>http://www.safe.nite.go.jp/japan/db.html<br/>IATA dangerous Goods Regulations<br/>RTECS:Registry of Toxic Effects of Chemical Substances<br/>Japan Industrial Safety and Health Association GHS Model SDS<br/>Dictionary of Synthetic Oraganic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd.<br/>Chemical Dictionary, Kyouritsu Publishing Co., Ltd.<br/>etcRecord of SDS revisionsThe following contents were revised. Prodauct and company Identification. Exposure<br/>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