



SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 10-May-2023 Revision Number 3.03

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Decane
Product Code	043-24992,047-24995
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
	Phone: +81-6-6203-3741
	Fax: +81-6-6203-2029
Emergency telephone number	+81-6-6203-3741 / +81-3-3270-8571
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 <u>Classification of the substance or mixture</u> Flammable liquids Aspiration hazard

Category 3 Category 1

Pictograms



Danger

Hazard statements

- H226 Flammable liquid and vapour
- H304 May be fatal if swallowed and enters airways

Precautionary statements-(Prevention)

- 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
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- Do NOT induce vomiting
- In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary statements-(Storage)

- Store locked up
- 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

CH3(CH2)8CH3

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Decane	99.5	142.28	(2)-10	*	124-18-5
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

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 mixture 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.

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**

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

Environmental precautions

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.

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)
Hand protection	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.

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:

colorless clear liquid characteristic odor -30 °C 174 °C Flammable liquid and vapor no data available

Flammability (solid, gas): no data available Upper/lower flammability or explosive limits 5.4 vol% Upper: 0.8 vol% Lower: Flash point 51 °C 205 °C Auto-ignition temperature: Decomposition temperature: no data available рΗ no data available Viscosity (coefficient of viscosity) no data available Dynamic viscosity no data available Solubilities Ethanol, acetone: soluble. water: practically insoluble, or insoluble . no data available n-Octanol/water partition coefficient:(log Pow) no data available Vapour pressure Specific Gravity / Relative density 0.727 -0.735 g/m L (20°C) Vapour density 4.9 Particle characteristics no data available

Section 10: STABILITY AND REACTIVITY

Stability

Reactivityno data availableChemical stabilityStable under recommended storage conditions.Hazardous reactionsStable under recommended storage conditions.None under normal processingFormation of the storage conditions.Conditions to avoid
Extremes of temperature and direct sunlight, Heat, flames and sparks, static electricity, sparkIncompatible materials
Strong oxidizing agentsHazardous decomposition products
Carbon monooxide (CO), Carbon dioxide (CO2)

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity			
Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Decane	> 5000 mg/kg (Rat)	N/A	36.2 mg/L (Mouse) 4 h

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
2000			Based on the NITE GHS classification results.
Chemical Name	Acute toxicity -inhalation	Acute toxicity -inhalation dust-	Acute toxicity -inhalation mist-

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

Skin irritation/corrosion

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.	
Respiratory or Skin sensitization source information	
Based on the NITE GHS classification results.	

Reproductive cell mutagenicity

Chemical Name	germ cell mutagencity source information	
Decane	Based on the NITE GHS classification results.	
Carcinogenicity		
Chemical Name	Carcinogenicity source information	
Decane	Based on the NITE GHS classification results.	
Reproductive toxicity		
Chemical Name	Reproductive toxicity source information	
Decane	Based on the NITE GHS classification results.	
STOT-single exposure		
Chemical Name	STOT -single exposure- source information	
Decane	Based on the NITE GHS classification results.	
STOT-repeated exposure		
Chemical Name	STOT -repeated exposure- source information	
Decane	Based on the NITE GHS classification results.	
Aspiration hazard		
Chemical Name	Aspiration Hazard source information	
Decane	Based on the NITE GHS classification results.	

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Other data

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

Persistence and degradability	No inform
Bioaccumulative potential	No inform
Mobility in soil	No inform
Hazard to the ozone layer	No inform
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

ADR/RID	
UN number	UN2247
Proper shipping name:	n-Decane
UN classfication	3
Subsidiary hazard class	
Packing group	111
Marine pollutant	Not applicable
IMDG	
UN number	UN2247
Proper shipping name:	n-Decane
UN classfication	3
Subsidiary hazard class	

Packing group Marine pollutant (Sea)	III Not applicable
Transport in bulk according to	
Annex II of MARPOL 73/78 and	
the IBC Code	
ΙΑΤΑ	
UN number	UN2247
Proper shipping name:	n-Decane
UN classfication	3
Subsidiary hazard class	
Packing group	III
Environmentally Hazardous	Not applicable
Substance	

Section 15: REGULATORY INFORMATION

International Inventories EINECS/ELINCS	Listed	
TSCA	Listed	
Japanese regulations		
Fire Service Act	Category IV, Class II petroleums, dangerous grade 3	
Poisonous and Deleterious	Not applicable	
Substances Control Law		
Industrial Safety and Health Ac	tDangerous 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)	
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 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	

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