



## SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 26-Feb-2024

Revision Number 5.04

### Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Heptanoic Acid		
Product Code	084-00182,088-00185		
Supplier	FUJIFILM Wako Pure Chemical Corporation		

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

Classification of the substance or mixture

Skin corrosion/irritationCategory 1Serious eye damage/eye irritationCategory 1Specific target organ toxicity (single exposure)Category 3

Category 3 Narcotic effects

Acute aquatic toxicity Category 3

#### **Pictograms**



Signal word

Danger

#### **Hazard statements**

H318 - Causes serious eye damage

H336 - May cause drowsiness or dizziness

H314 - Causes severe skin burns and eye damage

H402 - Harmful to aquatic life

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

- Do not breathe dust/fume/gas/mist/vapors/spray
- · Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection
- Use only outdoors or in a well-ventilated area
- Avoid release to the environment

### Precautionary statements-(Response)

- · IF exposed or concerned:
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- Immediately call a POISON CENTER or doctor/physician
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- · Wash contaminated clothing before reuse

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- Call a POISON CENTER or doctor/physician if you feel unwell
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

#### Precautionary statements-(Storage)

- Store in a well-ventilated place. Keep container tightly closed
- 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 CH3(CH2)5COOH

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Heptanoic acid	98.0	130.18	(2)-684,(2)-608	*	111-14-8

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

Keep container tightly closed. Store locked up.

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 Protective mask

Hand protection chemical protective gloves (JIS T 8116)

Eye protection protective eyeglasses or chemical safety goggles (JIS T 8147)

Skin and body protection Long-sleeved work clothes

**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 Colorless - slightly yellow

Turbidity clear Appearance liquid

**Odor** characteristic odor

Melting point/freezing point -9 °C Boiling point, initial boiling point and boiling range 223 °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 112 °C

Auto-ignition temperature:no data availableDecomposition temperature:no data availablepHno data availableViscosity (coefficient of viscosity)no data availableDynamic viscosityno data available

Solubilities Ethanol , acetone : freely soluble . water : slightly soluble .

**n-Octanol/water partition coefficient:(log Pow) no data available vapour pressure no data available** 

Specific Gravity / Relative density  $0.916 - 0.921 \text{ g/m L } (20 \,^{\circ}\text{C})$ 

Vapour densityno data availableParticle characteristicsno 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
Heptanoic acid	7000 mg/kg (Rat)	> 5000 mg/kg ( Rabbit )	N/A

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

Serious eve damage/ irritation

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

Reproductive toxicity

Chemical Name	Reproductive toxicity source information
Heptanoic acid	Based on the NITE GHS classification results.
STOT-single exposure	
Chemical Name	STOT -single exposure- source information
Heptanoic acid	Based on the NITE GHS classification results.
STOT-repeated exposure	
Chemical Name	STOT -repeated exposure- source information
Hentanoic acid	Based on the NITE GHS classification results.

Heptanoic acid	Based on the NTE GHS classification results.
Aspiration hazard	
Chemical Name	Aspiration Hazard source information

Aspiration nazaru			
Chemical Name	Aspiration Hazard source information		
Heptanoic acid	Based on the NITE GHS classification results.		

### **Section 12: ECOLOGICAL INFORMATION**

### **Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Heptanoic acid	ErC50 : Pseudokirchn eriella	N/A	N/A
	subcapitata		
	60 mg/L 72 h		

Other data

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

### **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 UN3265

Proper shipping name: Corrosive liquid, acidic, organic, n.o.s. (Heptanoic acid)

**UN classfication** 

Subsidiary hazard class

Packing group

Marine pollutant Not applicable

**IMDG** 

UN3265 **UN** number

Proper shipping name: Corrosive liquid, acidic, organic, n.o.s. (Heptanoic acid)

**UN classfication** 

Subsidiary hazard class

**Packing group** Ш

Marine pollutant (Sea) Not applicable

No information available Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

**IATA** 

**UN** number UN3265

Proper shipping name: Corrosive liquid, acidic, organic, n.o.s. (Heptanoic acid)

**UN classfication** 

Subsidiary hazard class

Packing group

**Environmentally Hazardous** Not applicable

Substance

### **Section 15: REGULATORY INFORMATION**

Japanese regulations

Fire Service Act Category IV, Class III petroleums, dangerous grade 3

**Poisonous and Deleterious** Deleterious Substances 3rd. Grade

**Substances Control Law** 

Industrial Safety and Health Act Not applicable 【2024.4.1~】Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)

Industrial Safety and Health Act (

Regulations for the carriage

and storage of dangerous

goods in ship

Transport by Ship and Storage, Attached Table 1)

Corrosive Substances (Ordinance Art.194, MITL Nortification for Air Transportation of **Civil Aeronautics Law** 

Corrosive Substances (Ordinance Art.3, Ministry of Transportation Ordinance Regarding

Explosives etc., Attached Table 1)

**Marine Pollution Prevention** Enforcement ordinance Appendix No. 1 Noxious liquid substance Category Z

Law

Pollutant Release and Transfer Not applicable

**Register Law** 

(2023.4.1-)

Not applicable **Export Trade Control Order** 

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-)
Heptanoic acid 111-14-8 ( 98.0 )	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 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**