



# SAFETY DATA SHEET

According to JIS Z 7253:2019 **Revision date** 20-Feb-2023 Revision Number 2.03

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	10-Undecenoic Acid
Product Code	219-00033,213-00036
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 Emergency telephone number Recommended uses and restrictions on use	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 +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> Skin corrosion/irritation Serious eye damage/eye irritation Acute aquatic toxicity Chronic aquatic toxicity

Category 2 Category 2A Category 3 Category 3

Pictograms



Warning

### Hazard statements

- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H402 Harmful to aquatic life
- H412 Harmful 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
- 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 ON SKIN: Wash with plenty of soap and water
- If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

#### Precautionary statements-(Storage)

Not applicable

### 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

C11H20O2

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
10-Undecenoic Acid	95.0	184.28	(2)-609,(2)-1030	公表	112-38-9
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.

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.

To be careful not discharged to the environment without being properly handled waste water contaminated. <b>Methods and materials for contaminent and methods and materials for cleaning up</b> Absorb dry sand, earth, sawdust and the waste. Collect empty container that can be sealed.			
Recoverly, neutralization			
No information available Secondary disaster prevention	massuras		
	and areas thoroughly observing environmental regulations.		
	Section 7: HANDLING AND STORAGE		
<u>Handling</u> Technical measures			
	act with high temperature objects, spark, and strong oxidizing agents. Use with local exhausi		
ventilation.			
Precautions			
Do not rough handling contain	ners, such as upsetting, falling, giving a shock, and dragging Prevent leakage, overflow, and		
scattering. Not to generate ste	eam and dust in vain. Seal the container after use. After handling, wash hands and face, and		
	an those specified, should not be smoking or eating and drinking Should not be brought		
	oment and gloves to rest stops Deny unnecessary entry of non-emergency personnel to the		
handling area			
Safety handling precautions			
	id static electricity discharge (which might cause ignition of organic vapors). Use personal ired. Avoid contact with skin, eyes or clothing.		
protective equipment as requi	red. Avoid contact with skin, eyes of clothing.		
Storage			
<u>Storage</u> Safe storage conditions			
Safe storage conditions	Keep container protect from light, store		
V	Keep container protect from light, store in well-ventilated place at room temperature (preferably cool). Keep container tightly		
Safe storage conditions	Keep container protect from light, store in well-ventilated place at room temperature (preferably cool). Keep container tightly closed.		
Safe storage conditions	in well-ventilated place at room temperature (preferably cool). Keep container tightly		
Safe storage conditions Storage conditions	in well-ventilated place at room temperature (preferably cool). Keep container tightly closed.		
Safe storage conditions Storage conditions Safe packaging material	in well-ventilated place at room temperature (preferably cool). Keep container tightly closed. Glass		
Safe storage conditions Storage conditions Safe packaging material Incompatible substances	in well-ventilated place at room temperature (preferably cool). Keep container tightly closed. Glass		

#### **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

Protective mask Protective gloves 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

White - slightly yellow , upon melting Colorless - slightly yellow clear (upon melting) mass or liquid characteristic odor 21 - 25 °C 275 °C no data available

Evaporation rate: Flammability (solid, gas): Upper/lower flammability or explosive limits	no data available no data available
Upper:	no data available
Lower:	no data available
Flash point	154 °C
Auto-ignition temperature:	no data available
Decomposition temperature:	no data available
рН	no data available
Viscosity (coefficient of viscosity)	no data available
Dynamic viscosity	no data available
Solubilities	Ethanol : soluble .
n-Octanol/water partition coefficient:(log Pow)	no data available
Vapour pressure	no data available
Specific Gravity / Relative density	0.911
Vapour density	no data available
Particle characteristics	no data available

lata available lata available lata available °C lata available lata available lata available lata available lata available anol : soluble . lata available lata available lata available lata available

### Section 10: STABILITY AND REACTIVITY

Stability

Reactivity no data available Chemical stability May be altered by light. **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
10-Undecenoic Acid	2500mg/kg(Rat)	N/A	N/A
10-Undecenoic Acid	2500mg/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 degradability Bioaccumulative potential Mobility in soil Hazard to the ozone layer 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** 

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### Section 14: TRANSPORT INFORMATION

ADR/RID UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group	Not regulated -
Marine pollutant	Not applicable
IMDG UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group	Not regulated -
Marine pollutant (Sea) Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable No information available
IATA UN number Proper shipping name: UN classfication Subsidiary hazard class	Not regulated -
Packing group Environmentally Hazardous Substance	Not applicable

# Section 15: REGULATORY INFORMATION

International Inventories EINECS/ELINCS TSCA	Listed Listed
Japanese regulations	
Fire Service Act	Category IV, Class III petroleums, dangerous grade 3
Poisonous and Deleterious	Not applicable
Substances Control Law	
Industrial Safety and Health Ac	tNot applicable
Regulations for the carriage	Not applicable
and storage of dangerous	
goods in ship	
Civil Aeronautics Law	Not applicable
Pollutant Release and Transfer	Not applicable
Register Law	
(~2023.3.31)	

Pollutant Release and Transfer Register Law (2023/4/1~)	Not applicable		
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		

### 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