



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 17-May-2023

Revision Number 2.04

### Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	1-Octanal
Product Code	150-00053,156-00055

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

Classification of the substance or mixture

Flammable liquids Category 3

### **Pictograms**



Signal word Warning

#### **Hazard statements**

H226 - Flammable liquid and vapour

#### **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
- In case of fire: Use CO2, dry chemical, or foam for extinction

### **Precautionary statements-(Storage)**

· Store in a well-ventilated place. Keep cool

## Precautionary statements-(Disposal)

• Dispose of contents/container to an approved waste disposal plant

1-Octanal

**Others** 

Other hazards Not available

#### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

Formula CH3(CH2)6CHO

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Octanal	97.0	128.21	(2)-494	*	124-13-0

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. 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**

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). Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Storage

Safe storage conditions

Storage conditions Keep container protect from light tightly closed. Store in a cool (2-10 °C) place. Packed

with an inert gas.

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 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 Colorless - slightly yellow

Turbidity clear liquid
Odor unpleasant
Melting point/freezing point clear liquid
unpleasant no data available

Boiling point, initial boiling point and boiling range 170 °C

Flammability Flammable liquid and vapor

Evaporation rate:

Flammability (solid, gas):

Upper/lower flammability or

no data available
no data available

explosive limits

Upper:no data availableLower:no data available

54 °C / 129 °F 200 °C / 392 °F Flash point **Auto-ignition temperature: Decomposition temperature:** no data available no data available pН

Viscosity (coefficient of viscosity) no data available Dynamic viscosity no data available

Solubilities Ethanol and acetone: Very soluble. water: practically

insoluble, or insoluble.

n-Octanol/water partition coefficient:(log Pow) 2.78

Vapour pressure

no data available Specific Gravity / Relative density 0.816 -0.826 g/m L (20°C)

Vapour density 4.4 (air = 1)no data available **Particle characteristics** 

### **Section 10: STABILITY AND REACTIVITY**

### **Stability**

Reactivity no data available

**Chemical stability** May be altered by light. altered in the air.

**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
Octanal	4600 mg/kg ( Rat )	6.35 mL/kg ( Rabbit )	> 4.7 mg/L (Rat)4 h

Chemical Name	Acute toxicity -oral- source	Acute toxicity -dermal- source	Acute toxicity -inhalation gas-
	information	information	source information
Octanal	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 vapor- source information	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information
Octanal	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	
Octanal	Based on the NITE GHS classification results.	
Serious eye damage/ irritation		

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

**Chemical Name** 

Octanal

Octanal	Based on the NITE GHS classification results.	
Reproductive cell mutagenicity		
Chemical Name	germ cell mutagencity source information	

Respiratory or Skin sensitization source information

Based on the NITE GHS classification results.

Carcinogenicity

- ar on regenionly	
Chemical Name	Carcinogenicity source information
Octanal	Based on the NITE GHS classification results.

Reproductive toxicity

Chemical Name	Reproductive toxicity source information
Octanal	Based on the NITE GHS classification results.

STOT-single exposure

Chemical Name	STOT -single exposure- source information
Octanal	Based on the NITE GHS classification results.

STOT-repeated exposure

Chemical Name	STOT -repeated exposure- source information
Octanal	Based on the NITE GHS classification results.

**Aspiration hazard** 

Chemical Name	Aspiration Hazard source information	
Octanal	Based on the NITE GHS classification results.	

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

**Ecotoxicity** No information available

Other data

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

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

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 UN1191
Proper shipping name: Octyl aldehydes

UN classfication 3

Subsidiary hazard class

Packing group III

Marine pollutant Not applicable

**IMDG** 

UN number UN1191
Proper shipping name: Octyl aldehydes

UN classification 3

Subsidiary hazard class

Packing group

Marine pollutant (Sea) Not applicable

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

IATA

UN number UN1191
Proper shipping name: Octyl aldehydes

UN classfication

Subsidiary hazard class Packing group

ll l

**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 Act Dangerous Substances - Flammable Substance (Enforcement Order Attached Table 1

Item 4)

Regulations for the carriage

and storage of dangerous

Transport by Ship and Storage, Attached Table 1)

goods in ship

**Civil Aeronautics Law** 

Flammable Liquids (Ordinance Art.194, MITL Nortification for Air Transportation of

Flammable Liquids (Ordinance Art.3, Ministry of Transportation Ordinance Regarding

Explosives etc., Attached Table 1)

**Marine Pollution Prevention** 

Law

Enforcement ordinance Appendix No. 1 Noxious liquid substance Category Y

Marine pollutants (P and PP substances)

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

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** 

The following contents were revised. Prodauct and company Identification. Exposure

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** 

\_\_\_\_\_\_