



# SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 27-Jan-2023 Revision Number 1.04

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

**Product Name** 0.05 mol/L Acetic Acid-Sodium Acetate Buffer Solution, pH 4.0 **Product Code** 016-25947

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

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Phone: +81-6-6203-3741 Fax: +81-6-6203-2029

**Emergency telephone number** Recommended uses and

+81-6-6203-3741 / +81-3-3270-8571 For research use only

restrictions on use

## **Section 2: HAZARDS IDENTIFICATION**

### **GHS** classification

### Classification of the substance or mixture

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

**Pictograms** 

None Signal word

## **Hazard statements**

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

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

· Not applicable

## Precautionary statements-(Response)

Not applicable

## Precautionary statements-(Storage)

· Not applicable

## Precautionary statements-(Disposal)

Not applicable

**Others** 

Other hazards Not available

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Mixture

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Water	<100	18.02	N/A	N/A	7732-18-5
Acetic Acid	0.24	60.05	(2)-688	*	64-19-7
Sodium Acetate	0.11	136.08	(2)-692	*	6131-90-4
Trihydrate					

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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

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

## 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

Avoid contact with strong bases. 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

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

Storage

Safe storage conditions

Storage conditions Store away from sunlight in well-ventilated place at room temperature (under 25 °C).

Keep container tightly closed.

Polyethylene Safe packaging material Incompatible substances Strong bases

## 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** 

	Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
Γ	Acetic Acid	TWA: 10 ppm OEL	N/A	STEL: 15 ppm
	64-19-7	TWA: 25 mg/m <sup>3</sup> OEL		TWA: 10 ppm

Personal protective equipment

Respiratory protection Protective mask Hand protection Protection gloves

Eye protection protective eyeglasses or chemical safety goggles

Long-sleeved work clothes Skin and body protection

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

**Form** 

Color colorless **Turbidity** clear **Appearance** liquid

no data available Odor no data available Melting point/freezing point no data available Boiling point, initial boiling point and boiling range **Flammability** no data available 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 no data available Auto-ignition temperature: no data available **Decomposition temperature:** no data available 3.95 - 4.05 (25°C) no data available Viscosity (coefficient of viscosity) **Dynamic viscosity** no data available Solubilities water: miscible. n-Octanol/water partition coefficient:(log Pow) no data available no data available Vapour pressure

Specific Gravity / Relative density no data available Vapour density no data available

#### Particle characteristics

no 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

Incompatible materials

Strong bases

Hazardous decomposition products

Carbon monooxide (CO), Carbon dioxide (CO2)

## **Section 11: TOXICOLOGICAL INFORMATION**

**Acute toxicity** 

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Acetic Acid	3310 mg/kg ( Rat )	1060 mg/kg ( Rabbit )	N/A

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

Chemical Name	Serious eye damage/irritation source information	
Acetic Acid	Based on the NITE GHS classification results.	

Respiratory or skin sensitization

Chemical Name	Respiratory or Skin sensitization source information
Acetic Acid	Based on the NITE GHS classification results.
oproductive cell mutagenicity	

Reproductive cell mutagenicity

Chemical Name	germ cell mutagencity source information
Acetic Acid	Based on the NITE GHS classification results.
Carcinogonicity	

<u>Carcinogenicity</u>

Chemical Name	Carcinogenicity source information
Acetic Acid	Based on the NITE GHS classification results.

Reproductive toxicity

Chemical Name	Reproductive toxicity source information	
Acetic Acid	Based on the NITE GHS classification results.	
STOT-single exposure		
Chemical Name	STOT -single exposure- source information	

Chemical Name	or or single exposure source information	
Acetic Acid	Based on the NITE GHS classification results.	
STOT-repeated exposure		

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

**Aspiration hazard** 

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

## **Section 12: ECOLOGICAL INFORMATION**

### **Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Acetic Acid	N/A	LC50 : Pimephales promelas	EC50 : Daphnia magna
		79 mg/L 96 h	65000 ug/L 48 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
Acetic Acid	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

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 Not regulated

**UN** number Proper shipping name:

**UN classfication** Subsidiary hazard class

Packing group

Marine pollutant Not applicable

**IMDG** Not regulated

**UN** number

Proper shipping name: UN classfication

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** Not regulated

**UN** number

Proper shipping name: **UN classfication** Subsidiary hazard class

Packing group

**Environmentally Hazardous** Not applicable

**Substance** 

## **Section 15: REGULATORY INFORMATION**

**International Inventories** 

EINECS/ELINCS - TSCA -

Japanese regulations

Fire Service Act
Poisonous and Deleterious
Substances Control Law
Not applicable
Not applicable

Industrial Safety and Health Act Not applicable Regulations for the carriage Not applicable

and storage of dangerous

goods in ship

Civil Aeronautics Law Not applicable

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

Law

Pollutant Release and Transfer Not applicable

Register Law (~2023.3.31)

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

 $\label{eq:conditionary} Dictionary of Synthetic Oraganic Chemistry \,,\, SSOCJ,\, Koudansha \,Scientific \,Co.Ltd.$ 

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**