



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 13-Feb-2023

Revision Number 4.060001

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	0.0125mol/l Oxalic Acid Solution
Product Code	153-02405

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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Emergency telephone number Recommended uses and

+81-6-6203-3741 / +81-3-3270-8571

restrictions on use

For research use only

# **Section 2: HAZARDS IDENTIFICATION**

GHS classification
Classification of the substance or mixture
Reproductive Toxicity

Category 2

#### **Pictograms**



Signal word

Warning

### **Hazard statements**

H361 - Suspected of damaging fertility or the unborn child

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

- Obtain special instructions before use
- · Do not handle until all safety precautions have been read and understood
- · Use personal protective equipment as required

## Precautionary statements-(Response)

• IF exposed or concerned: Get medical advice/attention

## Precautionary statements-(Storage)

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 Mixture

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Oxalic acid	0.11	90.03	(2)-844	公表	144-62-7
Water	<100	18.02	N/A	N/A	7732-18-5

**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: 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 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

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity)

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

Polyethylene

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** 

Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
Oxalic acid	N/A	N/A	STEL: 2 mg/m <sup>3</sup>
144-62-7			TWA: 1 mg/m <sup>3</sup>

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 liauid **Appearance** 

no data available Odor Melting point/freezing point no data available Boiling point, initial boiling point and boiling range no data available Flammability no data available **Evaporation rate:** no data available 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 no data available Auto-ignition temperature: **Decomposition temperature:** no data available acidic

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

**Solubilities** 

n-Octanol/water partition coefficient:(log Pow) Vapour pressure Specific Gravity / Relative density Vapour density

no data available no data available no data available no data available no data available

water Ethanol and acetone miscible with .

# **Section 10: STABILITY AND REACTIVITY**

#### Stability

Reactivity no data available

Chemical stability Stable under recommended storage conditions.

**Hazardous reactions** 

**Particle characteristics** 

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
Oxalic acid	375 mg/kg (Rat)	20000 mg/kg (Rat)	N/A

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

Serious eye damage/ irritation

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

Respiratory or skin sensitization

	Chemical Name	Respiratory or Skin sensitization source information
	Oxalic acid	Based on the NITE GHS classification results.

Reproductive cell mutagenicity

Chemical Name	germ cell mutagencity source information
Oxalic acid	Based on the NITE GHS classification results.
Carcinogenicity	

Carcinogenicity

Chemical Name	Carcinogenicity source information
Oxalic acid	Based on the NITE GHS classification results.

Reproductive toxicity

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

or or single exposure					
	Chemical Name	STOT -single exposure- source information			
ſ	Oxalic acid	Based on the NITE GHS classification results.			

STOT-repeated exposure

Chemical Name	STOT -repeated exposure- source information				
Oxalic acid Based on the NITE GHS classification results.					
Aspiration hazard					
Chemical Name	Aspiration Hazard source information				
Oxalic acid	Based on the NITE GHS classification results.				

# **Section 12: ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Oxalic acid	N/A	LC50:Lepomis macrochirus	EC50 : 15 mg/L 48h
		4000 mg/L 24 h	(Daphnia magna)

#### Other data

Chemical Name	Short-term (acute) hazardous to the aquatic environment source information	Long-term (chronic) hazardous to the aquatic environment source information
Oxalic 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** 

**Substance** 

Not applicable

# **Section 15: REGULATORY INFORMATION**

**International Inventories** 

EINECS/ELINCS - TSCA -

Japanese regulations

Fire Service Act
Poisonous and Deleterious
Not applicable
Not applicable

**Substances Control Law** 

Industrial Safety and Health Act Notifiable Substances (Law Art.57-2, Enforcement Oder Art.18-2 Attached Table

No.9)No.304 Not applicable

Regulations for the carriage

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

Not applicable

Register Law (2023/4/1~)

Export Trade Control Order

Not applicable

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2) (~2024.3.31)	Pollutant Release and Transfer Register Law (~2023.3.31)
Oxalic acid 144-62-7(0.11)	-	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**