



# SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 03-Feb-2023 Revision Number 1.03

### Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	2-Ethyl-1,3-hexanediol (mixture of isomers)
Product Code	059-01273,053-01276

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** 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 Serious eye damage/eye irritation **Reproductive Toxicity** 

Category 2A Category 2







Signal word

Warning

### **Hazard statements**

H319 - Causes serious eye irritation

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
- · Wash face, hands and any exposed skin thoroughly after handling

## Precautionary statements-(Response)

- IF exposed or concerned: Get medical advice/attention
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue
- If eye irritation persists: 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 Substance

Formula CH3CH2CH(OH)CH(C2H5)CH2OH

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
2-Ethyl-1,3-hexanediol	98.0	146.23	(2)-240	*	94-96-2

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.

### **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

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

#### 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 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 Protective gloves

**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 - nearly colorless

Turbidity clear
Appearance viscous liquid
Odor no data available

Melting point/freezing point -40 °C Boiling point, initial boiling point and boiling range 245 °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 available
Lower: no data available

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Flash point no data available
Auto-ignition temperature: no data available
Decomposition temperature: no data available
pH no data available
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)

Vapour pressure

Specific Gravity / Relative density

New york density

no data available
0.937 - 0.945 g/mL

Vapour density

Particle characteristics

0.937 - 0.945 g/mi
no data available
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, 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
2-Ethyl-1,3-hexanediol	1400 mg/kg (Rat)	10.8 mL/kg (Rabbit) 9.51 mL/kg (Rabbit) 2 g/kg (Rabbit)	1900 mg/kg(mouse)

Chemical Name	Acute toxicity -oral- source	Acute toxicity -dermal- source	Acute toxicity -inhalation gas-
	information	information	source information
2-Ethyl-1,3-hexanediol	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
Γ	2-Ethyl-1,3-hexanediol	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	
2-Ethyl-1,3-hexanediol	Based on the NITE GHS classification results.	
Serious eye damage/ irritation		

Serious eye damage/ irritation

Chemical Name	Serious eye damage/irritation source information
2-Ethyl-1,3-hexanediol	Based on the NITE GHS classification results.

Respiratory or skin sensitization

Chemical Name	Respiratory or Skill sensitization source information	
2-Ethyl-1,3-hexanediol	Based on the NITE GHS classification results.	
Reproductive cell mutagenicity		

Chomic

Chemical Name	germ cell mutagencity source information
2-Ethyl-1,3-hexanediol	Based on the NITE GHS classification results.
Carainaganiaity	

Carcinogenicity

Chemical Name Carcinogenicity source information
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2-Ethyl-1,3-hexanediol	Based on the NITE GHS classification results.

Reproductive toxicity

Chemical Name	Reproductive toxicity source information	
2-Ethyl-1,3-hexanediol	Based on the NITE GHS classification results.	

STOT-single exposure

Chemical Name	STOT -single exposure- source information	
2-Ethyl-1,3-hexanediol	Based on the NITE GHS classification results.	

STOT-repeated exposure

	Chemical Name	STOT -repeated exposure- source information	
2-Ethyl-1,3-hexanediol		Based on the NITE GHS classification results.	

**Aspiration hazard** 

Chemical Name	Aspiration Hazard source information	
2-Ethyl-1,3-hexanediol	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
2-Ethyl-1,3-hexanediol	Based on the NITE GHS classification	Based on the NITE GHS classification
	results.	results.

No information available Persistence and degradability **Bioaccumulative potential** No information available Mobility in soil No information available No information available Hazard to the ozone layer

### **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 Listed
TSCA Listed

Japanese regulations

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

Not applicable

Poisonous and Deleterious

Substances Control Law

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 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

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**