



SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 28-Feb-2024

Revision Number 3.07

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	2-Propyn-1-ol
Product Code	169-24042,163-24045

Supplier FUJIFILM Wako Pure Chemical Corporation

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Recommended uses For research use only

Restrictions on useSeek expert judgment when using for purposes other than those recommended.

Section 2: HAZARDS IDENTIFICATION

GHS classification

Classification of the substance or mixture

Category 3 Flammable liquids **Acute toxicity - Oral** Category 3 Category 1 **Acute toxicity - Dermal** Acute toxicity - Inhalation (Vapors) Category 3 Skin corrosion/irritation Category 1 Serious eye damage/eye irritation Category 1 Carcinogenicity Category 2 Specific target organ toxicity (single exposure) Category 3

Category 3 Respiratory irritation

Specific target organ toxicity (repeated exposure)

Category 1

Category 1 respiratory system, liver, kidneys

Acute aquatic toxicity Category 2

Pictograms



Hazard statements

H226 - Flammable liquid and vapour

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

H301 - Toxic if swallowed

H310 - Fatal in contact with skin

H331 - Toxic if inhaled

H351 - Suspected of causing cancer

H335 - May cause respiratory irritation

H401 - Toxic to aquatic life

H372 - Causes damage to the following organs through prolonged or repeated exposure: respiratory system, liver, kidneys

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
- · Do not get in eyes, on skin, or on clothing
- Do not breathe dust/fume/gas/mist/vapors/spray
- · Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- · Use only outdoors or in a well-ventilated area
- Avoid release to the environment
- · 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
- · Keep cool

Precautionary statements-(Response)

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- · Immediately call a POISON CENTER or doctor/physician
- · Wash contaminated clothing before reuse
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- Call a POISON CENTER or doctor/physician if you feel unwell
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- · Rinse mouth
- · Do NOT induce vomiting
- In case of fire: Use suitable extinguishing media for extinction

Precautionary statements-(Storage)

- Store in a well-ventilated place. Keep container tightly closed
- 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 CH=CCH2OH

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
2-Propyn-1-ol	98.0	56.06	(2)-276,(2)-272	*	107-19-7

Note on ISHL No.: * in the table means announced chemical substances.

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

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

<u>Handling</u>

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

Storage

Safe storage conditions

Storage conditions Keep container protect from light, store

in well-ventilated place at room temperature (preferably cool). Keep container tightly

closed. 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

Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
2-Propyn-1-ol	N/A	N/A	TWA: 1 ppm
107-19-7			Skin

Personal protective equipment

gas mask for organic gas (JIS T 8152) Respiratory protection chemical protective gloves (JIS T 8116) Hand protection

protective eyeglasses or chemical safety goggles (JIS T 8147) Eye protection

Long-sleeved work clothes Skin and body protection

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

If this product is classified as "Chemical Substances Hazardous to Skin, etc.", use appropriate protective equipment to them.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form

Color Colorless - dark brown

Turbidity clear Appearance liquid

characteristic odor, Lachrymator Odor

Melting point/freezing point -48 - -52 °C Boiling point, initial boiling point and boiling range 113 °C

Flammability Flammable liquid and vapor

Evaporation rate: no data available Flammability (solid, gas): no data available

Upper/lower flammability or explosive limits

70 vol% Upper: Lower: 3.4 vol% Flash point 33 °C

Auto-ignition temperature: no data available no data available **Decomposition temperature:** рΗ no data available Viscosity (coefficient of viscosity) no data available

Dynamic viscosity no data available

Solubilities water, Ethanol, acetone: Very soluble. n-Octanol/water partition coefficient:(log Pow) no data available

Vapour pressure 1.54kPa

0.944 -0.952 g/m L (20°C) Specific Gravity / Relative density

Vapour density 1.94 (air=1) **Particle characteristics** no data available

Section 10: STABILITY AND REACTIVITY

Stability

no data available Reactivity 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
2-Propyn-1-ol	32 mg/kg (Rat)	24 mg/kg (Rabbit)	N/A

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
2-Propyn-1-ol	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
2-Propyn-1-ol	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-Propyn-1-ol	Based on the NITE GHS classification results.
	-

Serious eye damage/irritation

Chemical Name	Serious eye damage/irritation source information
2-Propyn-1-ol	Based on the NITE GHS classification results.

Respiratory or skin sensitization

Chemical Name	Respiratory or Skin sensitization source information
2-Propyn-1-ol	Based on the NITE GHS classification results.

Reproductive cell mutagenicity

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Chemical Name	germ cell mutagencity source information	
2-Propyn-1-ol	Based on the NITE GHS classification results.	

Carcinogenicity

Chemical Name	Carcinogenicity source information			
2-Propyn-1-ol	Based on the NITE GHS classification results.			

Reproductive toxicity

Chemical Name		Reproductive toxicity source information
	2-Propyn-1-ol	Based on the NITE GHS classification results.
ST	OT-single exposure	

Chemical Name	STOT -single exposure- source information	
2-Propyn-1-ol	Based on the NITE GHS classification results.	

STOT-repeated exposure

Chemical Name	STOT -repeated exposure- source information	
2-Propyn-1-ol	Based on the NITE GHS classification results.	

Aspiration hazard

Chemical Name	Aspiration Hazard source information	
2-Propyn-1-ol	Based on the NITE GHS classification results.	

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

	Chemical Name	Algae/aquatic plants	Fish	Crustacea
ſ	2-Propyn-1-ol	N/A	LC50 : Pimephales promelas	N/A
			1.44 mg/kg 96 h	

Other data

	Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the	
		aquatic environment source information	aquatic environment source information	
ĺ	2-Propyn-1-ol	Based on the NITE GHS classification	Based on the NITE GHS classification	
		results.	results.	

Persistence and degradability Degree of decomposition: 95 % by BOD (METI Existing chemical safety inspections)

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 UN2929

Proper shipping name: Toxic liquid, flammable, organic, n.o.s. (2-Propyn-1-ol)

UN classfication 6.1 Subsidiary hazard class 3 Packing group 1

Marine pollutant Not applicable

IMDG

UN number UN2929

Proper shipping name: Toxic liquid, flammable, organic, n.o.s. (2-Propyn-1-ol)

UN classfication 6.1 Subsidiary hazard class 3 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 UN2929

Proper shipping name: Toxic liquid, flammable, organic, n.o.s. (2-Propyn-1-ol)

UN classfication 6.1 Subsidiary hazard class 3 Packing group

Environmentally Hazardous Not applicable

Substance

Section 15: REGULATORY INFORMATION

Japanese regulations

Fire Service Act Category IV, Class II petroleums, dangerous grade 3 water-soluble

Poisonous and Deleterious Not applicable

Substances Control Law

Industrial Safety and Health Act Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57)

Notifiable Substances (Law Art.57-2)

Dangerous Substances - Flammable Substance (Enforcement Order Attached Table 1

Item 4)
[2024.4.1~] Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)

Industrial Safety and Health Act (

2024~)

Regulations for the carriage and storage of dangerous

goods in ship

Toxic Substances - Poison (Ordinance Art.3, Ministry of Transportation Ordinance

Regarding Transport by Ship and Storage, Attached Table 1)

Civil Aeronautics Law Toxic and Infectious Substances (Ordinance Art. 194, MITL Nortification for Air

Transportation of Explosives etc., Attached Table 1)

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)	Pollutant Release and Transfer Register Law (2023.4.1-)
2-Propyn-1-ol 107-19-7 (98.0)	-	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 Disclaimer

The following contents were revised. Regulatory information.

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