



SAFETY DATA SHEET

According to JIS Z 7253:2019 Issue Date 18-Jul-2025 Revision Number 3.05

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Propiolic Acid	Propiolic Acid		
Product Code	161-11611			
Supplier	FUJIFILM Wako Pure Chemical Corporation	inan		

1-2 Doshomachi 3-Chome, Chuo-ku, Osaka

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

Section 2: HAZARDS IDENTIFICATION

GHS classification

Classification of the substance or mixture

Flammable liquids

Acute toxicity - Oral

Acute toxicity - Dermal

Skin corrosion/irritation

Specific target organ toxicity (single exposure)

Category 2

Category 2

Category 2

Category 3

Category 3 Respiratory irritation

Pictograms





Signal word

Danger

Hazard statements

H226 - Flammable liquid and vapour

H315 - Causes skin irritation

H301 - Toxic if swallowed

H310 - Fatal in contact with skin

H335 - May cause respiratory irritation

Precautionary statements-(Prevention)

- · Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- · Do not get in eyes, on skin, or on clothing
- Wear protective gloves/protective clothing/eye protection/face protection
- Avoid breathing dust/fume/gas/mist/vapors/spray
- · Use only outdoors or in a well-ventilated area
- · 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)

- Immediately call a POISON CENTER or doctor/physician
- · Wash contaminated clothing before reuse
- If skin irritation occurs: Get medical advice/attention
- 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
- In case of fire: Use suitable extinguishing media for extinction

Precautionary statements-(Storage)

- · Store locked up
- Store in a well-ventilated place. Keep container tightly closed

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=CCOOH

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Propiolic Acid	95.0	70.05	(2)-1086	*	471-25-0

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

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. (Upon melting) 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

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use with local exhaust ventilation. 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.

Safe packaging material Glas

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 limitsThis 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 (JIS T 8147)

Skin and body protection Long-sleeved work clothes

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 White - brown , upon melting Colorless - brown

Turbidity (upon melting) clear
Appearance mass or liquid
Odor Pungent odor

Melting point/freezing pointno data availableBoiling point, initial boiling point and boiling range144 °C (dec.)

Flammability Flammable liquid and vapor

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

Solubilities water , Ethanol and acetone : soluble .

n-Octanol/water partition coefficient:(log Pow)
No data available
no data available
Specific Gravity / Relative density
Napour density
Particle characteristics
No data available
no data available
no data available

Section 10: STABILITY AND REACTIVITY

Stability

Reactivity no data available
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

*NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Propiolic Acid	100 - 200 mg/kg (Rat)	100 mg/kg (Cavia porcellus)	N/A

Chemical Name	Acute toxicity -oral- source	Acute toxicity -dermal- source	Acute toxicity -inhalation gas-
	information	information	source information

Aspiration Hazard source information

Based on the NITE GHS classification results.

Propiolic Acid	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS		
	classification results.	classification results.	classification results.		
	A cost of contaction that a last con-	A	A		
Chemical Name	Acute toxicity -inhalation vapor- source information	source information	Acute toxicity -inhalation mist- source information		
Propiolic 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					
Chem	ical Name	Skin corrosion/irritate	tion source information		
Prop	iolic Acid	Based on the NITE GHS classi	fication results.		
Serious eye damage/ irritation		•			
	ical Name	Serious eye damage/irr	itation source information		
Prop	iolic Acid	Based on the NITE GHS classi	Based on the NITE GHS classification results.		
Respiratory or skin sensitizati	on	•			
Chem	ical Name	Respiratory or Skin sens	itization source information		
Propiolic Acid		Based on the NITE GHS classification results.			
Reproductive cell mutagenicit	у				
Chemical Name			germ cell mutagencity source information		
Propiolic Acid		Based on the NITE GHS classi	fication results.		
Carcinogenicity					
Chem	ical Name	Carcinogenicity	source information		
Prop	iolic Acid	Based on the NITE GHS classi	fication results.		
Reproductive toxicity					
Chem	ical Name	Reproductive toxic	Reproductive toxicity source information		
Propiolic Acid		Based on the NITE GHS classification results.			
STOT-single exposure					
Chem	ical Name	STOT -single exposu	ure- source information		
Prop	iolic Acid	Based on the NITE GHS classi	fication results.		
STOT-repeated exposure					
Chem	ical Name		sure- source information		
Prop	iolic Acid	Based on the NITE GHS classi	fication results.		

Section 12: ECOLOGICAL INFORMATION

*NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput

Chemical Name

Propiolic Acid

Ecotoxicity no data available

Other data

Aspiration hazard

	Other data					
Chemical Name		Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the			
		aquatic environment source information	aquatic environment source information			
	Propiolic 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

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. (Propiolic Acid)

UN classfication 6.1 Subsidiary hazard class 3 Packing group ||

Marine pollutant Not applicable

IMDG

UN number UN2929

Proper shipping name: Toxic liquid, flammable, organic, n.o.s. (Propiolic Acid)

UN classfication 6.7
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. (Propiolic Acid)

UN classfication 6.
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 Dangerous Substances - Flammable Substance (Enforcement Order Attached Table 1

Item 4

Industrial Safety and Health Act (

<u>2026~)</u>

[2026.4.1~] Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57)

【2026.4.1~】Notifiable Substances (Law Art.57-2)

Regulations for the carriage and storage of dangerous

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

Regarding Transport by Ship and Storage, Attached Table 1)

goods in ship

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-)

Industrial Safety and Health Law

Law Name	Chemical Name in Regulation	Weight %	Scheduled enforcement date
Notifiable Substances (Law Art.57-2)	2-Propynoic acid	95.0	2026/4/1

Section 16: OTHER INFORMATION

Key literature references and NITE: National Institute of Technology and Evaluation (JAPAN)

sources for data etc. https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput

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. Hazards

identification. Fire fighting measures. Accidental release measures. Exposure

controls/personal protection. Physical and chemical properties. Toxicological information.

Ecological information. 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