

## SAFETY DATA SHEET

According to JIS Z 7253:2019  
Issue Date 11-Mar-2025  
Revision Number 1.02

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	2,4,5-TP, 1000 µg/mL in Acetonitrile
Product Code	AS-E0552

Manufacturer Supplier	AccuStandard Inc. 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	+81-6-6203-3741 / +81-3-3270-8571
Recommended uses	For research use only
Restrictions on use	Seek 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 - Inhalation (Vapors)

Skin corrosion/irritation

Serious eye damage/eye irritation

Category 2

Category 4

Category 2

Category 2A

## Pictograms



## Signal word

Danger

## Hazard statements

H225 - Highly flammable liquid and vapor

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

## Precautionary statements-(Prevention)

- Avoid breathing dust/fume/gas/mist/vapors/spray
- Use only outdoors or in a well-ventilated area
- Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection
- 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

## Precautionary statements-(Response)

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing

- If eye irritation persists: Get medical advice/attention
- 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
- Wash contaminated clothing before reuse
- 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
- In case of fire: Use suitable extinguishing media for extinction

**Precautionary statements-(Storage)**

- Store in a well-ventilated place. Keep cool

**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
Acetonitrile	99.900	41.05	(2)-1508	*	75-05-8
2-(2,4,5-Trichlorophenoxy)propionic acid	0.100	269.51	(3)-2844	*	93-72-1

**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 (CO<sub>2</sub>), 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 contaminant and methods and materials for cleaning up

Absorb dry sand, earth, sawdust and the waste. Collect empty container that can be sealed.

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

### Storage

#### Safe storage conditions

##### Storage conditions

Please see storage condition on the product label. Store locked up.

##### Safe packaging material

Containers supplied by the manufacturer

#### 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 hand- and eye-wash facility. And display their position clearly.

### Exposure limits

Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
Acetonitrile 75-05-8	N/A	N/A	TWA: 20 ppm Skin

Chemical Name	Concentration standard value set by the Minister of Health, Labor and Welfare (8hr)	Concentration standard value set by the Minister of Health, Labor and Welfare (Short-Term)
Acetonitrile 75-05-8	10 ppm	N/A

**Personal protective equipment**

<b>Respiratory protection</b>	gas mask for organic gas ( JIS T 8152 )
<b>Hand protection</b>	chemical protective gloves ( JIS T 8116 )
<b>Eye protection</b>	protective eyeglasses or chemical safety goggles (JIS T 8147)
<b>Skin and body protection</b>	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**

**Turbidity** clear

**Appearance** liquid

**Odor**

Pungent odor

**Melting point/freezing point**

no data available

**Boiling point, initial boiling point and boiling range**

81.6 °C

**Flammability**

Highly flammable liquid and vapor

**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

**Flash point**

2 °C

**Auto-ignition temperature:**

523 °C

**Decomposition temperature:**

no data available

**pH**

no data available

**Viscosity (coefficient of viscosity)**

no data available

**Dynamic viscosity**

no data available

**Solubilities**

water : soluble, .

**n-Octanol/water partition coefficient:(log Pow)**

no data available

**Vapour pressure**

no data available

**Specific Gravity / Relative density**

0.785 g/cm<sup>3</sup>

**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, Heat, flames and sparks, static electricity, spark

**Incompatible materials**

Strong oxidizing agents

**Hazardous decomposition products**

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>), Halides

## 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](https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput)

**Acute toxicity**

Chemical Name	Acute toxicity -oral- source	Acute toxicity -dermal- source	Acute toxicity -inhalation gas-
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	information	information	source information
Acetonitrile	According to manufacturer information.	According to manufacturer information.	According to manufacturer information.
2-(2,4,5-Trichlorophenoxy)propionic acid	According to manufacturer information.	According to manufacturer information.	According to manufacturer information.

Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information
Acetonitrile	According to manufacturer information.	According to manufacturer information.	According to manufacturer information.
2-(2,4,5-Trichlorophenoxy)propionic acid	According to manufacturer information.	According to manufacturer information.	According to manufacturer information.

**Skin irritation/corrosion**

Chemical Name	Skin corrosion/irritation source information
Acetonitrile	According to manufacturer information.
2-(2,4,5-Trichlorophenoxy)propionic acid	According to manufacturer information.

**Serious eye damage/ irritation**

Chemical Name	Serious eye damage/irritation source information
Acetonitrile	According to manufacturer information.
2-(2,4,5-Trichlorophenoxy)propionic acid	According to manufacturer information.

**Respiratory or skin sensitization**

Chemical Name	Respiratory or Skin sensitization source information
Acetonitrile	According to manufacturer information.
2-(2,4,5-Trichlorophenoxy)propionic acid	According to manufacturer information.

**Reproductive cell mutagenicity**

Chemical Name	germ cell mutagenicity source information
Acetonitrile	According to manufacturer information.
2-(2,4,5-Trichlorophenoxy)propionic acid	According to manufacturer information.

**Carcinogenicity**

Chemical Name	Carcinogenicity source information
Acetonitrile	According to manufacturer information.
2-(2,4,5-Trichlorophenoxy)propionic acid	According to manufacturer information.

Chemical Name	NTP	IARC	ACGIH	JSOH
2-(2,4,5-Trichlorophenoxy)propionic acid 93-72-1	N/A	Group 2B	N/A	N/A

**Reproductive toxicity**

Chemical Name	Reproductive toxicity source information
Acetonitrile	According to manufacturer information.
2-(2,4,5-Trichlorophenoxy)propionic acid	According to manufacturer information.

**STOT-single exposure**

Chemical Name	STOT -single exposure- source information
Acetonitrile	According to manufacturer information.
2-(2,4,5-Trichlorophenoxy)propionic acid	According to manufacturer information.

**STOT-repeated exposure**

Chemical Name	STOT -repeated exposure- source information
Acetonitrile	According to manufacturer information.
2-(2,4,5-Trichlorophenoxy)propionic acid	According to manufacturer information.

**Aspiration hazard**

Chemical Name	Aspiration Hazard source information
Acetonitrile	According to manufacturer information.
2-(2,4,5-Trichlorophenoxy)propionic acid	According to manufacturer information.

**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](https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput)

Ecotoxicity no data 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
Acetonitrile	According to manufacturer information.	According to manufacturer information.
2-(2,4,5-Trichlorophenoxy)propionic acid	According to manufacturer information.	According to manufacturer information.

Persistence and degradability No information available  
 Bioaccumulative potential No information available  
 Mobility in soil No information available  
 Hazard to the ozone layer 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 UN1648  
 Proper shipping name: ACETONITRILE  
 UN classification 3  
 Subsidiary hazard class  
 Packing group II  
 Marine pollutant Not applicable

#### IMDG

UN number UN1648  
 Proper shipping name: ACETONITRILE  
 UN classification 3  
 Subsidiary hazard class  
 Packing group II  
 Marine pollutant (Sea) Not applicable  
 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information available

#### IATA

UN number UN1648  
 Proper shipping name: ACETONITRILE  
 UN classification 3  
 Subsidiary hazard class  
 Packing group II  
 Environmentally Hazardous Substance Not applicable

### Section 15: REGULATORY INFORMATION

#### Japanese regulations

Fire Service Act Category IV, Class I petroleums, dangerous grade 2 water-soluble  
 Poisonous and Deleterious Substances Control Law Deleterious Substances 2nd. Grade

<b>Industrial Safety and Health Act</b>	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)
	Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)
<b>Industrial Safety and Health Act (2025-)</b>	<b>【2025.4.1~】</b> Notifiable Substances (Law Art.57-2)
<b>Regulations for the carriage and storage of dangerous goods in ship</b>	Flammable Liquids (Ordinance Art.3, Ministry of Transportation Ordinance Regarding Transport by Ship and Storage, Attached Table 1)
<b>Civil Aeronautics Law</b>	Flammable Liquids (Ordinance Art.194, MITL Notification for Air Transportation of Explosives etc., Attached Table 1)
<b>Pollutant Release and Transfer Register Law (2023.4.1-)</b>	Not applicable

## Industrial Safety and Health Law

Law Name	Chemical Name in Regulation	Weight %	Scheduled enforcement date
Notifiable Substances (Law Art.57-2)	Fenoprop	0.100	2025/4/1

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-)
Acetonitrile 75-05-8 ( 99.900 )	Applicable	Applicable	-

## Section 16: OTHER INFORMATION

## Key literature references and sources for data etc.

NITE: National Institute of Technology and Evaluation (JAPAN)  
[https://www.chem-info.nite.go.jp/en/chem/chrip/chrip\\_search/srhInput](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 Organic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd.  
 Chemical Dictionary, Kyouritsu Publishing Co., Ltd.  
 etc

## Record of SDS revisions

The following contents were revised. Composition/information on ingredients. Fire fighting measures. Exposure controls/personal protection. Physical and chemical properties. Stability and reactivity. 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