



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 10-May-2023

Revision Number 2.04

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Ethyl Acetate	
Product Code	055-00376	
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	+81-6-6203-3741 / +81-3-3270-8571 Food additives	

## **Section 2: HAZARDS IDENTIFICATION**

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

GHS classification
Classification of the substance or mixture
Flammable liquids
Acute toxicity - Inhalation (Vapors)

Acute toxicity - Inhalation (Vapors)
Serious eye damage/eye irritation
Specific target organ toxicity (single exposure)
Category 3 Respiratory irritation, Narcotic effects

Category 2 Category 4 Category 2B Category 3





Restrictions on use



Signal word

Danger

### **Hazard statements**

H225 - Highly flammable liquid and vapor

H320 - Causes eye irritation

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

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

- · Wash face, hands and any exposed skin thoroughly after handling
- 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
- Wear protective gloves/protective clothing/eye protection/face protection
- · 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
- If eye irritation persists: 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
- In case of fire: Use CO2, dry chemical, or foam 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 CH3COOC2H5

	Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
ĺ	Ethyl Acetate	98.0	88.11	(2)-726	*	141-78-6

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

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**

#### 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

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** Store away from sunlight in well-ventilated place at room temperature (preferably cool).

Keep container tightly closed. Store locked up.

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
Ethyl Acetate	200ppm, 720mg/m <sup>3</sup>	ISHL/ACL: 200 ppm	TWA: 400 ppm, 1440mg/m <sup>3</sup>
141-78-6			

#### Personal protective equipment

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

ColorcolorlessTurbidityclearAppearanceliquid

**Odor** characteristic odor

Melting point/freezing point -84 °C
Boiling point, initial boiling point and boiling range 77 °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 availableLower:no data available

Flash point 4 °C Auto-ignition temperature: 426 °C

Decomposition temperature:no data availablepHno data availableViscosity (coefficient of viscosity)no data available

Dynamic viscosityno data availableSolubilitiesEthanol , Diethyl ether : Very soluble. water : soluble .

n-Octanol/water partition coefficient:(log Pow) 0.73 Vapour pressure 10

Specific Gravity / Relative density 0.900 - 0.904

Vapour density 3.0

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 monooxide (CO), Carbon dioxide (CO2)

## **Section 11: TOXICOLOGICAL INFORMATION**

**Acute toxicity** 

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethyl Acetate	5600 mg/kg (Rat)	> 18000 mg/kg (Rabbit)	19600 ppm 4 h ( Rat )

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
,			Based on the NITE GHS classification results.
	ola combation i country	olacomoation recalls.	olacomoation recaite.

Chemical Name	Acute toxicity -inhalation	Acute toxicity -inhalation dust-	Acute toxicity -inhalation mist-

	vapor- source information	source information	source information
Ethyl Acetate	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
Ethyl Acetate	Based on the NITE GHS classification results.
Serious eye damage/ irritation	
Chemical Name	Serious eye damage/irritation source information
Ethyl Acetate	Based on the NITE GHS classification results.
Respiratory or skin sensitization	
Chemical Name	Respiratory or Skin sensitization source information
Ethyl Acetate	Based on the NITE GHS classification results.
Reproductive cell mutagenicity	
Chemical Name	germ cell mutagencity source information
Ethyl Acetate	Based on the NITE GHS classification results.
Carcinogenicity	
Chemical Name	Carcinogenicity source information

Reproductive toxicity

Chemical Name	Reproductive toxicity source information
Ethyl Acetate	Based on the NITE GHS classification results.

STOT-single exposure

Chemical Name	STOT -single exposure- source information
Ethyl Acetate	Based on the NITE GHS classification results.

Based on the NITE GHS classification results.

STOT-repeated exposure

OTOT Topoutou exposure	
Chemical Name	STOT -repeated exposure- source information
Ethyl Acetate	Based on the NITE GHS classification results.

**Aspiration hazard** 

Chemical Name	Aspiration Hazard source information
Ethyl Acetate	Based on the NITE GHS classification results.

# **Section 12: ECOLOGICAL INFORMATION**

### **Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Ethyl Acetate	EC50:Desmodesmus subspicatus 3300 mg/L 48 h	LC50: Fathead minnow 230 mg/L 96 h	EC50 : Daphnids 262 mg/L 48 h

Other data

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

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

Ethyl Acetate

## **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 UN1173 Proper shipping name: Ethyl acetate

**UN classfication** Subsidiary hazard class

Packing group

Marine pollutant Not applicable

**IMDG** 

UN1173 **UN** number Ethyl acetate Proper shipping name:

**UN classfication** 

Subsidiary hazard class Packing group

Ш

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 UN1173 Proper shipping name: Ethyl acetate

**UN classfication** 

Subsidiary hazard class

Packing group

**Environmentally Hazardous** Not applicable

**Substance** 

### **Section 15: REGULATORY INFORMATION**

**International Inventories** 

**EINECS/ELINCS** Listed Listed **TSCA** 

Japanese regulations

Fire Service Act Category IV, Class I petroleums, dangerous grade 2

Poisonous and Deleterious Deleterious Substances 3rd. Grade

**Substances Control Law** 

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

Para.1, Enforcement Order Art.18)

Notifiable Substances (Law Art.57-2, Enforcement Oder Art.18-2 Attached Table

Class 2 Organic Solvents (Enforcement Order Attached Table No.6-2, Ordinance on

Prevention of Organic Solvent Poisoning Art.1, Para.1, Item 5)

Dangerous Substances - Flammable Substance (Enforcement Order Attached Table 1

Item 4)

Working Environment Evaluation Standards, Administrative Control Levels (Law

Art.65-2, Para.1)

Regulations for the carriage and storage of dangerous goods in ship

Flammable Liquids (Ordinance Art.3, Ministry of Transportation Ordinance Regarding

Transport by Ship and Storage, Attached Table 1)

**Civil Aeronautics Law** Flammable Liquids (Ordinance Art.194, MITL Nortification for Air Transportation of

Explosives etc., Attached Table 1)

**Marine Pollution Prevention** Enforcement ordinance Appendix No. 1 Noxious liquid substance Category Z

**Dangerous Substances** Law

Pollutant Release and Transfer Not applicable Register Law

(2023.4.1-)

**Water Pollution Control Act** Specified substances(Law Art.2 Para.4, Enforcement Order Art.3-3)

**Export Trade Control Order Offensive Odor Control Law** 

Not applicable

or Control Law Specified Offensive Odor Substances

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 (2023.4.1-)
Ethyl Acetate 141-78-6 ( 98.0 )	Applicable	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

 $\label{eq:conditionary} Dictionary of Synthetic Oraganic Chemistry \,,\, SSOCJ,\, Koudansha \,Scientific \,Co.Ltd.$ 

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 Z 7252:2019. \*JIS: Japanese Industrial Standards

**End of Safety Data Sheet**