



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 10-May-2023

Revision Number 3.03

Category 2

Category 4 Category 2B

Category 3

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Ethyl Acetate 300		
Product Code	052-04421,058-04423		
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 +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)
Serious eye damage/eye irritation
Specific target organ toxicity (single exposure)
Category 3 Respiratory irritation, Narcotic effects

**Pictograms** 





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
Ethyl Acetate	99.7	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

Ethyl Acetate 300

#### 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 Keep container protect from light, store

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 141-78-6	200ppm, 720mg/m <sup>3</sup>	ISHL/ACL: 200 ppm	TWA: 400 ppm, 1	440mg/m <sup>3</sup>

#### 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

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 availableDynamic viscosityno data available

**Solubilities** Ethanol , Diethyl ether : Very soluble. water : soluble .

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

Specific Gravity / Relative density  $0.899 - 0.902 \text{ g/m L } (20 \,^{\circ}\text{C})$ 

Vapour density 3.0

Particle characteristics 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**

**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
Ethyl Acetate	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
Etily! / tootato			Based on the NITE GHS classification results.

irritat		

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		
Ethyl Acetate	Based on the NITE GHS classification results.		

Reproductive toxicity

Reproductive toxicity source information	
ate Based on the NITE GHS classification results.	
STOT -single exposure- source information	
Based on the NITE GHS classification results.	
STOT -repeated exposure- source information	

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

# 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

	- 11.01 HA1H			
Chemical Name		Short-term (acute) hazardous to the aquatic environment source	Long-term (chronic) hazardous to the aquatic environment source	
		information	information	
	Ethyl Acetate	Based on the NITE GHS classification	Based on the NITE GHS classification	
	·	results.	results.	

Persistence and degradability No information available No information available Bioaccumulative potential 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 UN1173 Proper shipping name: Ethyl acetate

**UN classfication** Subsidiary hazard class

Packing group

Marine pollutant Not applicable

**IMDG** 

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

**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** 

**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 **TSCA** Listed

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

No.9)No.177

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 **Civil Aeronautics Law** 

Flammable Liquids (Ordinance Art.3, Ministry of Transportation Ordinance Regarding Transport by Ship and Storage, Attached Table 1)

Flammable Liquids (Ordinance Art.194, MITL Nortification for Air Transportation of Explosives etc., Attached Table 1)

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

Law **Dangerous Substances** 

Pollutant Release and Transfer Not applicable

Register Law (2023.4.1-)

Water Pollution Control Act Export Trade Control Order Offensive Odor Control Law Specified substances(Law Art.2 Para.4, Enforcement Order Art.3-3)

Not applicable

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 ( 99.7 )	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

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**