



# SAFETY DATA SHEET

According to JIS Z 7253:2019 **Revision date** 10-May-2023 Revision Number 2.05

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Ethyl Isovalerate
Product Code	052-01903,056-01906
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.
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Section 2: HAZARDS IDENTIFICATION

GHS classification <u>Classification of the substance or mixture</u> Flammable liquids Skin corrosion/irritation

Category 3 Category 2

Pictograms



vvarning

#### **Hazard statements**

- H226 Flammable liquid and vapour
- H315 Causes skin irritation

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

- · 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 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
  - · In case of fire: Use CO2, dry chemical, or foam for extinction

CAS RN

108-64-5

#### Precautionary statements-(Storage)

Store in a well-ventilated place. Keep cool

Precautionary statements-(Disposal)

· Dispose of contents/container to an approved waste disposal plant

Weight-%

97.0

### Others

Other hazards

Not available

Substance

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture

Formula

(CH3)2CHCH2COOC2H5

Molecular weight

130.18

Note on ISHL No.:

**Chemical Name** 

Ethyl isovalerate

\* in the table means announced chemical substances.

ENCS

(2)-776

ISHL No.

2-(6)-668 (2)-776

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

Water spray (fog), 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	or inhaling the gas. Work from windward, and retract the people downwind.		
	the environment without being properly handled waste water contaminated.		
	minent and methods and materials for cleaning up		
	st and the waste. Collect empty container that can be sealed.		
Recoverly, neutralization			
No information available			
Secondary disaster prevention r	neasures		
Clean contaminated objects ar	d areas thoroughly observing environmental regulations.		
	Section 7: HANDLING AND STORAGE		
Llevelling			
<u>Handling</u> Technical measures			
	at with high temperature chiests, and strong ovidizing agents. The with local exhaust		
Highly flammable. Avoid contact with high temperature objects, spark, and strong oxidizing agents. Use with local exhaust ventilation.			
Precautions			
	ers, such as upsetting, falling, giving a shock, and dragging Prevent leakage, overflow, and		
	am and dust in vain. Seal the container after use. After handling, wash hands and face, and		
	n those specified, should not be smoking or eating and drinking Should not be brought		
	nent and gloves to rest stops Deny unnecessary entry of non-emergency personnel to the		
handling area	nent and gloves to rest stops beny dimesessary entry of non-emergency personnel to the		
Safety handling precautions			
	I static electricity discharge (which might cause ignition of organic vapors). Use personal		
	ed. 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).		
eterage conditions	Keep container tightly closed.		
Safe packaging material	Glass		
Incompatible substances	Strong oxidizing agents		
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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**

This 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** Hand protection Eye protection Skin and body protection

gas mask for organic gas (JIS T 8152) chemical protective gloves (JIS T 8116) protective eyeglasses or chemical safety goggles Long-sleeved work clothes

### General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

# Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form Color Turbidity Appearance Odor Melting point/freezing point Boiling point, initial boiling point and boiling range Flammability

colorless clear liquid characteristic odor -99 °C 132 °C no data available

**Evaporation rate:** Flammability (solid, gas): Upper/lower flammability or explosive limits Upper: Lower: Flash point Auto-ignition temperature: Decomposition temperature: pН Viscosity (coefficient of viscosity) Dynamic viscosity Solubilities n-Octanol/water partition coefficient:(log Pow) Vapour pressure Specific Gravity / Relative density Vapour density Particle characteristics

no data available no data available 35 °C no data available Ethanol and acetone : miscible . water : slightly soluble . no data available Ethanol and acetone : miscible . water : slightly soluble . no data available 0.862 - 0.868 g/mL no data available no data available

### Section 10: STABILITY AND REACTIVITY

no data available

Stability

Reactivityno data availableChemical stabilityStable under recommended storage conditions.Hazardous reactionsStable under recommended storage conditions.None under normal processingFormation of the storage conditions.Conditions to avoid<br/>Extremes of temperature and direct sunlight, Heat, flames and sparks, static electricity, sparkIncompatible materials<br/>Strong oxidizing agentsHazardous decomposition products<br/>Carbon monooxide (CO), Carbon dioxide (CO2)

# Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity			
Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethyl isovalerate	7031mg/kg (Rabbit)	N/A	N/A
Ethyl isovalerate	7031mg/kg (Rabbit)	N/A	N/A

Skin irritation/corrosion	no data available
Serious eye damage/ irritation	no data available
Respiratory or skin sensitization	no data available
Reproductive cell mutagenicity	no data available
Carcinogenicity	no data available
Reproductive toxicity	no data available
STOT-single exposure	no data available
STOT-repeated exposure	no data available
Aspiration hazard	no data available

# Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

No information available

Other data

no data available

Persistence and degradability Bioaccumulative potential Mobility in soil Hazard to the ozone layer No information available 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

U	N number	UN3272
P	roper shipping name:	Esters, n.o.s. (Ethyl isovalerate)
U	N classfication	3
S	ubsidiary hazard class	
P	acking group	111
	arine pollutant	Not applicable
IMDG		
U	N number	UN3272
P	roper shipping name:	Esters, n.o.s. (Ethyl isovalerate)
U	N classfication	3
S	ubsidiary hazard class	
Pa	acking group	III
M	arine pollutant (Sea)	Not applicable
Ti	ransport in bulk according to	No information available
Α	nnex II of MARPOL 73/78 and	
th	ne IBC Code	
ΙΑΤΑ		
U	N number	UN3272
P	roper shipping name:	Esters, n.o.s. (Ethyl isovalerate)
U	N classfication	3
S	ubsidiary hazard class	
Pa	acking group	III
	nvironmentally Hazardous	Not applicable
	ubstance	

## Section 15: REGULATORY INFORMATION

International Inventories EINECS/ELINCS TSCA	Listed Listed
Japanese regulations	
Fire Service Act	Category IV, Class II petroleums, dangerous grade 3
Poisonous and Deleterious	Not applicable
Substances Control Law	
Industrial Safety and Health Ac	t Dangerous Substances - Flammable Substance (Enforcement Order Attached Table 1 Item 4)
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)
Pollutant Release and Transfe	r Not applicable

Register Law		
(2023.4.1-)		
Export Trade Control Order	Not 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	The following contents were revised. Prodauct and company Identification. Exposure controls/personal protection. 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