



SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 23-May-2023 Revision Number 2.04

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	2-Ethyl-4-methylthiazole
Product Code	323-44481
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 Restrictions on use	Fax. +61-6-6203-2029 +81-6-6203-3741 / +81-3-3270-8571 For research use only 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 - Oral

Category 3 Category 4

Pictograms



Warning

Hazard statements

- H226 Flammable liquid and vapour
- H302 Harmful if swallowed

Precautionary statements-(Prevention)

- · Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- 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
- Precautionary statements-(Response)
 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
 - Rinse mouth

· In case of fire: Use CO2, dry chemical, or foam 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 Substance

C6H9NS Formula

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
2-Ethyl-4-methylthiazole	97	127.21	N/A	N/A	15679-12-6
Note on ISHL No.:	* in the	table means announ	ced chemical substa	inces.	

Not applicable Impurities and/or Additives:

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** 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. 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

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 General hygiene considerations

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

Handle in accordance with good industrial hygiene and safety practice.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form Color Appearance Odor Melting point/freezing point Boiling point, initial boiling point and boiling range Flammability Evaporation rate:

Colorless - pale yellow liquid characteristic odor no data available 161 - 162 °C Flammable liquid and vapor no data available

- 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 54 °C no data available 54 °C no data available no data available no data available no data available Ethanol and acetone : miscible . water : slightly soluble . no data available Ethanol and acetone : miscible . water : slightly soluble . no data available 1.026 4.4(Air=1) no data available

Section 10: STABILITY AND REACTIVITY

Stability

 Reactivity
 no data available

 Chemical stability
 Stable under recommended storage conditions.

 Hazardous reactions
 Stable under recommended storage conditions.

 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

 Strong oxidizing agents
 Carbon monooxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Sulfur oxides (SOx)

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Skin irritation/corrosion Serious eye damage/ irritation Respiratory or skin sensitization Reproductive cell mutagenicity Carcinogenicity

Reproductive toxicity STOT-single exposure STOT-repeated exposure Aspiration hazard no data available

no data available no data available no data available no data available no data available no data available

no data available no data available no data available

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity	No information available
Other data	no data available
Persistence and degradability Bioaccumulative potential	No information available No information available

Mobility in soil Hazard to the ozone layer

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

UN numberUN1993Proper shipping name:Flammable liquid, n.o.s. (2-Ethyl-4-methylthiazole)UN classfication3Subsidiary hazard classIIIPacking groupIIIMarine pollutantNot applicable	ADR/RID	
UN classfication 3 Subsidiary hazard class Packing group III	UN number	UN1993
Subsidiary hazard class Packing group III	Proper shipping name:	Flammable liquid, n.o.s. (2-Ethyl-4-methylthiazole)
Packing group	UN classfication	3
i doming group	Subsidiary hazard class	
Marine pollutant Not applicable	Packing group	III
	Marine pollutant	Not applicable
IMDG		1014000
UN number UN1993	••••	
Proper shipping name: Flammable liquid, n.o.s. (2-Ethyl-4-methylthiazole)		
UN classification 3		3
Subsidiary hazard class		
Packing group III	Packing group	III
Marine pollutant (Sea) Not applicable	Marine pollutant (Sea)	Not applicable
Transport in bulk according to No information available	Transport in bulk according to	No information available
Annex II of MARPOL 73/78 and	Annex II of MARPOL 73/78 and	1
the IBC Code	the IBC Code	
ΙΑΤΑ	ΙΑΤΑ	
UN number UN 1993	UN number	UN1993
Proper shipping name: Flammable liquid, n.o.s. (2-Ethyl-4-methylthiazole)	Proper shipping name:	Flammable liquid, n.o.s. (2-Ethyl-4-methylthiazole)
UN classification 3	UN classfication	3
Subsidiary hazard class	Subsidiary hazard class	
Packing group	Packing group	III
Environmentally Hazardous Not applicable		Not applicable
Substance	-	••

Section 15: REGULATORY INFORMATION

International Inventories EINECS/ELINCS	Listed Listed
TSCA	Lisieu
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	Flammable Liquids (Ordinance Art.3, Ministry of Transportation Ordinance Regarding
and storage of dangerous	Transport by Ship and Storage, Attached Table 1)
goods in ship	
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

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.

controls/personal protection. Regulatory information.

GHS Classification is according to JIS Z 7252:2019. *JIS: Japanese Industrial Standards

End of Safety Data Sheet