



SAFETY DATA SHEET

According to JIS Z 7253:2019 **Revision date** 26-Feb-2024 Revision Number 1.09

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	2-Ethylhexyl Acrylate
Product Code	058-02223,052-02226
Supplier	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741
Emergency telephone number Recommended uses Restrictions on use	Fax: +81-6-6203-2029 +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	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3
Category 3 Narcotic effects	
Specific target organ toxicity (repeated exposure)	Category 2
Category 2 nose [by inhalation]	
Acute aquatic toxicity	Category 2

Pictograms



Signal word

Warning

Hazard statements

- H227 Combustible liquid
- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H336 May cause drowsiness or dizziness
- H317 May cause an allergic skin reaction
- H401 Toxic to aquatic life

H373 - May cause damage to the following organs through prolonged or repeated exposure: nose [by inhalation]

Precautionary statements-(Prevention)

- Wash face, hands and any exposed skin thoroughly after handling
- Contaminated work clothing should not be allowed out of the workplace
- Do not breathe dust/fume/gas/mist/vapors/spray
- Use only outdoors or in a well-ventilated area
- · Avoid release to the environment

- · Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- Wear protective gloves/protective clothing/eye protection/face protection
- · Keep cool

Precautionary statements-(Response)

· Get medical advice/attention if you feel unwell

• 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
- · Take off contaminated clothing and wash before reuse
- IF ON SKIN: Wash with plenty of soap and water
- If skin irritation or rash occurs: Get medical advice/attention
- 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 container tightly closed
- Store locked up

Precautionary statements-(Disposal)

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

Others

Other hazards

Not available

Mixture

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture

Formula

CH2:CHCOOCH2CH(C2H5)(CH2)3CH3

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
2-Ethylhexyl Acrylate, Monomer	98.0	184.28	(2)-990	公表	103-11-7
Hydroquinone monomethyl ether	0.01	124.14	(3)-567	*	150-76-5

Note on ISHL No.:

* in the table means announced chemical substances.

Impurities and/or Additives:

Stabilizer: Hydroquinone monomethyl ether abt. 100ppm

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.

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 Keep container protect from light, store Storage conditions Keep container protect from light, store 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			
Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH

Hydroquinone monomethyl	N/A	N/A	TWA: 5 mg/m ³
ether			Ū.
150-76-5			

Personal protective equipment Respiratory protection

Hand protection

Eye protection

Protective mask chemical protective gloves (JIS T 8116) protective eyeglasses or chemical safety goggles (JIS T 8147) Long-sleeved work clothes

Skin and body protection 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 Color Turbidity Appearance Odor Melting point/freezing point Boiling point, initial boiling point and boiling range Flammability **Evaporation rate:** Flammability (solid, gas): Upper/lower flammability or explosive limits Upper: Lower: Flash point Auto-ignition temperature: **Decomposition temperature:** рΗ Viscosity (coefficient of viscosity) **Dynamic viscosity** Solubilities n-Octanol/water partition coefficient:(log Pow) Vapour pressure Specific Gravity / Relative density Vapour density Particle characteristics

Colorless - slightly yellow clear liquid unpleasant -90 °C 215 °C Combustible liquid no data available no data available 6.4vol% 0.8vol%

0.8vol% 89 °C 252 °C no data available no data available no data available Ethanol , acetone : Very soluble. 3.67 19Pa 0.883 - 0.888 g/mL 6.35 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
2-Ethylhexyl Acrylate, Monomer	4435 mg/kg (Rat)	>10,000 mg/kg (Rabbit)	N/A
Hydroquinone monomethyl	1600 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	N/A
ether			

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
2-Ethylhexyl Acrylate, Monomer	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.
Hydroquinone monomethyl ether	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
2-Ethylhexyl Acrylate, Monomer	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.
Hydroquinone monomethyl ether	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 corrosi	on/irritation sour	ce information	
			Skin corrosion/irritation source information Based on the NITE GHS classification results.		
2-Ethylhexyl Acrylate, Monomer		Based on the NITE GHS classification results.			
Hydroquinone monomethyl ether		Based on the NITE G	15 classification re	suns.	
Serious eye damage/ irritation		0			
Chemical Name				ource information	
2-Ethylhexyl Acrylate, Monomer		Based on the NITE G			
Hydroquinone monomethyl ether		Based on the NITE G	IS classification re	sults.	
Respiratory or skin sensitization					
Chemical Name				source information	
2-Ethylhexyl Acrylate, Monomer		Based on the NITE G			
Hydroquinone monomethyl ether		Based on the NITE G	IS classification re	sults.	
Reproductive cell mutagenicity					
Chemical Name			utagencity sourc		
2-Ethylhexyl Acrylate, Monomer		Based on the NITE G	IS classification re	sults.	
Hydroquinone monomethyl ether		Based on the NITE G	IS classification re	sults.	
Carcinogenicity					
Chemical Name		Carcinogenicity source information			
2-Ethylhexyl Acrylate, Monomer		Based on the NITE GHS classification results.			
Hydroquinone monomethyl ether		Based on the NITE GHS classification results.			
Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)	
2-Ethylhexyl Acrylate, Monomer		Group 2B			
103-11-7					
Reproductive toxicity					
Chemical Name		Reproductive toxicity source information			
2-Ethylhexyl Acrylate, Monomer		Based on the NITE GHS classification results.			
Hydroquinone monomethyl ether		Based on the NITE GHS classification results.			
STOT-single exposure					
Chemical Name		STOT -single exposure- source information			
2-Ethylhexyl Acrylate, Monomer	2-Ethylhexyl Acrylate, Monomer		Based on the NITE GHS classification results.		
Hydroquinone monomethyl ether		Based on the NITE GHS classification results.			
STOT-repeated exposure					
Chemical Name		STOT -repeated exposure- source information			
2-Ethylhexyl Acrylate, Monomer			Based on the NITE GHS classification results.		
Hydroquinone monomethyl ether		Based on the NITE G	IS classification re	sults.	
Aspiration hazard					

Chemical Name

Page 5/7

Aspiration Hazard source information

2-Ethylhexyl Acrylate, Monomer	Based on the NITE GHS classification results.
Hydroquinone monomethyl ether	Based on the NITE GHS classification results.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
2-Ethylhexyl Acrylate, Monomer	EC50:Desmodesmus	LC50:Leuciscus idus melanotus	EC50:Daphnia magna 17.45
	subspicatus 44 mg/L 72 h	23 mg/L 48 h	mg/L 48 h
	EC50:Desmodesmus		-
	subspicatus 47 mg/L 96 h		
Hydroquinone monomethyl	N/A	N/A	EC50 : Daphnia magna
ether			2.2 mg/L 48 h

Other data

Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the
	aquatic environment source information	aquatic environment source information
2-Ethylhexyl Acrylate, Monomer		Based on the NITE GHS classification
	results.	results.
Hydroquinone monomethyl ether	Based on the NITE GHS classification	Based on the NITE GHS classification
	results.	results.

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

ailable ailable ailable ailable

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

UN classification Subsidiary hazard class Packing group Environmentally Hazardous Not applicable Substance

Section 15: REGULATORY INFORMATION

Japanese regulations Fire Service Act Poisonous and Deleterious Substances Control Law	Category IV, Class III petroleums, dangerous grade 3 Not applicable
Industrial Safety and Health Act	t Not applicable
Industrial Safety and Health Act ([2024.4.1~] Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)
<u>2024~)</u>	
Regulations for the carriage	Not applicable
and storage of dangerous goods in ship	
Civil Aeronautics Law	Not applicable
Pollutant Release and Transfer	Class 1
Register Law	
(2023.4.1-)	
Class 1 - No.	564
Export Trade Control Order	Not applicable

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-)
2-Ethylhexyl Acrylate, Monomer 103-11-7 (98.0)	-	-	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 Disclaimer	The following contents were revised. Regulatory information.

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