SAFETY DATA SHEET

Issue Date 24-Jun-2025
Revision Number 2.05

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier
Product Name 2-Ethylhexyl Methacrylate
Other means of identification
Product Code(s) 052-05602,056-05605

Recommended use of the chemical and restrictions on use
Recommended Use For research use only.
Uses advised against Seek expert judgment when using for purposes other than those recommended.

Details of the supplier of the safety data sheet

Manufacturer Address
FUJIFILM Wako Pure Chemical Corporation
1-2, Doshomachi 3-Chome,
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Distributor
FUJIFILM Irvine Scientific
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2. HAZARDS IDENTIFICATION

GHS classification
Classification of the substance or mixture

Flammable liquids	Category 4
Skin corrosion/irritation	Category 2
Reproductive Toxicity	Category 2
Acute aquatic toxicity	Category 2
Chronic aquatic toxicity	Category 2

Pictograms

Signal word Warning

Hazard statements
- H227 - Combustible liquid
- H315 - Causes skin irritation
- H361 - Suspected of damaging fertility or the unborn child
- H401 - Toxic to aquatic life
- H411 - Toxic to aquatic life with long lasting effects

Precautionary statements-(Prevention)
Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Avoid release to the environment Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

Precautionary statements-(Response)
IF exposed or concerned: Get medical advice/attention
IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse

In case of fire: Use suitable extinguishing media for extinction
Collect spillage

Precautionary statements-(Storage)
Store locked up 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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

Formula CH2:C(CH3)COOCH2CH(C2H5)(CH2)3CH3

Chemical Name	Molecular weight	CAS RN	Weight-%
2-Ethylhexyl methacrylate	198.30	688-84-6	98.0
p-Methoxyphenol	124.14	150-76-5	0.0025

Impurities and/or Additives： [Stabilizer]p-Methoxyphenol about 0.0025 %

4. FIRST AID MEASURES

First aid measures

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin contact Wash skin with soap and water.

Inhalation Remove to fresh air.

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.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing media
Carbon dioxide (CO2). Foam. Extinguishing powder. Sand.

Specific hazards arising from the chemical
Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Explosion data
Sensitivity to Mechanical Impact none.
Sensitivity to Static Discharge none.

Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation, especially in confined areas.

Environmental precautions

Environmental precautions See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods and material for containment and cleaning up Absorb dry sand, earth, sawdust and the waste. Collect empty container that can be sealed.

Methods for cleaning up Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical measures Keep away from heat/sparks/open flames/hot surfaces. - No smoking.Use with local exhaust ventilation.

Protective measures Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage conditions Keep container protect from light, store in well-ventilated place at room temperature (preferably cool). Keep container tightly closed.

Packaging materials Glass.

Incompatible materials Strong oxidizing agents.

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 hand- and eye-wash facility. And display their position clearly.

Exposure limits

Chemical Name	ACGIH	OSHA PEL	NIOSH IDLH
p-Methoxyphenol 150-76-5	TWA: 5 mg/m^3	(vacated) TWA: 5 mg/m^3	TWA: 5 mg/m^3

Personal protective equipment

Respiratory protection Protective mask
Hand protection chemical protective gloves (JIS T 8116)
Eye protection protective eyeglasses or chemical safety goggles (JIS T 8147)
Skin and body protection Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form

Color	Colorless - slightly yellow
Turbidity	clear
Appearance	liquid
Odor	characteristic odor
pH	no data available
Melting point/freezing point	no data available
Boiling point, initial boiling point and boiling range	229 °C
Flash point	92 °C
Evaporation rate:	no data available
Flammability (solid, gas):	no data available
Upper/lower flammability or explosive limits	
Upper:	no data available
Lower:	no data available
Vapour pressure	no data available
Vapour density	6.9(air=1)
Specific Gravity / Relative density	0.881 - 0.887 g/mL
Solubilities	water : soluble .
n-Octanol/water partition coefficient:(log Pow)	no data available
Auto-ignition temperature:	no data available
Decomposition temperature:	no data available
Viscosity (coefficient of viscosity)	no data available
Dynamic viscosity	no data available
Particle characteristics	no data available

10. STABILITY AND REACTIVITY

Stability

Chemical stability	May be altered by light.
Reactivity	no data available

Hazardous reactions

The substance polymerizes under heating, light and other conditions causing fire or explosion hazard.

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)

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2-Ethylhexyl methacrylate	>2000 mg/kg (Rat)	N/A	N/A
p-Methoxyphenol	1600 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	N/A

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
2-Ethylhexyl methacrylate	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
p-Methoxyphenol	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.

Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information
2-Ethylhexyl methacrylate	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS

	classification results.	classification results.	classification results.
p-Methoxyphenol	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.

Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information
2-Ethylhexyl methacrylate	Based on the NITE GHS classification results.
p-Methoxyphenol	Based on the NITE GHS classification results.

Serious eye damage/ irritation

Chemical Name	Serious eye damage/irritation source information
2-Ethylhexyl methacrylate	Based on the NITE GHS classification results.
p-Methoxyphenol	Based on the NITE GHS classification results.

Respiratory or skin sensitization

Chemical Name	Respiratory or Skin sensitization source information
2-Ethylhexyl methacrylate	Based on the NITE GHS classification results.
p-Methoxyphenol	Based on the NITE GHS classification results.

Reproductive cell mutagenicity

Chemical Name	germ cell mutagencity source information
2-Ethylhexyl methacrylate	Based on the NITE GHS classification results.
p-Methoxyphenol	Based on the NITE GHS classification results.

Carcinogenicity

Chemical Name	Carcinogenicity source information
2-Ethylhexyl methacrylate	Based on the NITE GHS classification results.
p-Methoxyphenol	Based on the NITE GHS classification results.

Reproductive toxicity

Chemical Name	Reproductive toxicity source information
2-Ethylhexyl methacrylate	Based on the NITE GHS classification results.
p-Methoxyphenol	Based on the NITE GHS classification results.

STOT-single exposure

Chemical Name	STOT -single exposure- source information
2-Ethylhexyl methacrylate	Based on the NITE GHS classification results.
p-Methoxyphenol	Based on the NITE GHS classification results.

STOT-repeated exposure

Chemical Name	STOT -repeated exposure- source information
2-Ethylhexyl methacrylate	Based on the NITE GHS classification results.
p-Methoxyphenol	Based on the NITE GHS classification results.

Aspiration hazard

Chemical Name	Aspiration Hazard source information
2-Ethylhexyl methacrylate	Based on the NITE GHS classification results.
p-Methoxyphenol	Based on the NITE GHS classification results.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
2-Ethylhexyl methacrylate 688-84-6	N/A	LC50 : Oryzias latipes 2.78 mg/L 96 h	N/A	N/A
p-Methoxyphenol 150-76-5	N/A	LC50 : Pimephales promelas 84.3 mg/L 96 h LC50 : Oncorhynchus mykiss 28.5 mg/L 96 h	N/A	EC50 : Daphnia magna 2.2 mg/L 48 h

Persistence and degradability

No information available

Bioaccumulative potential
No information available

Mobility

Chemical Name	Partition coefficient
2-Ethylhexyl methacrylate 688-84-6	4.95
p-Methoxyphenol 150-76-5	1.3

Mobility in soil No information available
Other Data No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Precautionary including method of disposing contaminated packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

DOT
UN/ID No UN3082
Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (2-Ethylhexyl methacrylate)
UN classfication 9
Subsidiary hazard class
Packing group III
Marine pollutant Yes

IATA
UN/ID No UN3082
Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (2-Ethylhexyl methacrylate)
UN classfication 9
Subsidiary hazard class
Packing group III
Environmentally Hazardous Substance Yes

IMDG
UN/ID No UN3082
Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (2-Ethylhexyl methacrylate)
UN classfication 9
Subsidiary hazard class
Packing group III
Marine pollutant (Sea) Yes

15. REGULATORY INFORMATION

US Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part

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Chemical Name	CAS RN	Weight-%	SARA 313 - Threshold Values %
2-Ethylhexyl methacrylate - 688-84-6	688-84-6	98.0	N/A
p-Methoxyphenol - 150-76-5	150-76-5	0.0025	N/A

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

This product does not contain any chemicals regulated by Proposition 65

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
p-Methoxyphenol 150-76-5	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

Issue Date 20-Jun-2025
Issue Date 24-Jun-2025
Revision Note
No information available
Disclaimer

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, use, processing, storage, transportation, disposal and release 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.

End of Safety Data Sheet