



SAFETY DATA SHEET

According to JIS Z 7253:2019 Issue Date 17-Apr-2025 Revision Number 1.06

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Methylstyrene (mixture of m- and p-)
Product Code	139-04703,133-04706

FUJIFILM Wako Pure Chemical Corporation **Supplier**

1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan

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+81-6-6203-3741 / +81-3-3270-8571 **Emergency telephone number**

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

Category 3 Flammable liquids Skin corrosion/irritation Category 2 Category 2A Serious eye damage/eye irritation Germ cell mutagenicity Category 2 Specific target organ toxicity (single exposure) Category 3

Category 3 Respiratory irritation, Narcotic effects

Specific target organ toxicity (repeated exposure)

Category 1 nervous system

Category 2 liver, respiratory system, kidneys

Acute aquatic toxicity Category 3 Category 3 Chronic aquatic toxicity

Pictograms



Signal word

Hazard statements

H226 - Flammable liquid and vapour

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H341 - Suspected of causing genetic defects

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H402 - Harmful to aquatic life

H412 - Harmful to aquatic life with long lasting effects

H372 - Causes damage to the following organs through prolonged or repeated exposure: nervous system

H373 - May cause damage to the following organs through prolonged or repeated exposure: liver, respiratory system, kidneys

Category 1, Category 2

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
- Do not breathe dust/fume/gas/mist/vapors/spray
- · Do not eat, drink or smoke when using this product
- · 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
- · 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
- Keep cool

Precautionary statements-(Response)

- IF exposed or concerned: Get medical advice/attention
- 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 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
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- In case of fire: Use suitable extinguishing media for extinction

Precautionary statements-(Storage)

- · Store locked up
- Store in a well-ventilated place. Keep container tightly closed

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 CH3C6H4CH:CH2

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Methylstyrene	98.0	118.18	(3)-8	*	25013-15-4

Note on ISHL No.: * in the table means announced chemical substances.

Impurities and/or Additives: Stabilizer: p-t-Butylcatechol about 0.005 %

Substances Remarks: This product is composed of isomer mixture.

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

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

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
Methylstyrene	N/A	N/A	STEL: 100 ppm
25013-15-4			TWA: 10 ppm

Chemical Name	Concentration standard value set by the Minister of Health, Labor and Welfare (8hr)	Concentration standard value set by the Minister of Health, Labor and Welfare (Short-Term)
Methylstyrene 25013-15-4	10 ppm	N/A

Personal protective equipment

Respiratory protection gas mask for organic gas (JIS T 8152) **Hand protection** gas mask for organic gas (JIS T 8152)

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.

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 Colorless - slightly yellow

Turbidity clear Appearance liquid

Odor characteristic odor
Melting point/freezing point no data available

Boiling point, initial boiling point and boiling range 165 °C

Flammability 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 45 °C

Auto-ignition temperature:no data availableDecomposition temperature:no data availablepHno data availableViscosity (coefficient of viscosity)no data availableDynamic viscosityno data available

Solubilities Ethanol and acetone: Very soluble. water: practically

insoluble,or insoluble . no data available

no data available

n-Octanol/water partition coefficient:(log Pow)

Vapour pressure

Specific Gravity / Relative density 0.896 - 0.901 g/mL (20°C)

Vapour densityno data availableParticle characteristicsno 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

*NITE: National Institute of Technology and Evaluation (JAPAN)

https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Methylstyrene	4000 mg/kg (Rat)	> 5 mL/kg (Rabbit)	> 16891 mg/m³ (Rat) 4 h
	2255 mg/kg (Rat)		

Chemical Name	Acute toxicity -oral- source	Acute toxicity -dermal- source	Acute toxicity -inhalation gas-
	information	information	source information
Methylstyrene	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
Methylstyrene	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 corrosion/irritation source information
Methylstyrene	Based on the NITE GHS classification results.
Sorious ava damago/irritation	

Chemical Name	Serious eye damage/irritation source information
Methylstyrene	Based on the NITE GHS classification results.

Respiratory or skin sensitization

•	Chemical Name	Respiratory or Skin sensitization source information
	Methylstyrene	Based on the NITE GHS classification results.

Reproductive cell mutagenicity

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Chemical Name	germ cell mutagencity source information
Methylstyrene	Based on the NITE GHS classification results.

Carcinogenicity

Chemical Name	Carcinogenicity source information
Methylstyrene	Based on the NITE GHS classification results.

Chemical Name	NTP	IARC	ACGIH	JSOH
Methylstyrene	N/A	Group 3	N/A	N/A
25013-15-4		•		

Reproductive toxicity

Chemical Name	Reproductive toxicity source information	
Methylstyrene	Based on the NITE GHS classification results.	

STOT-single exposure

Chemical Name	STOT -single exposure- source information	
Methylstyrene	Based on the NITE GHS classification results.	

STOT-repeated exposure

Chemical Name	STOT -repeated exposure- source information	
Methylstyrene	Based on the NITE GHS classification results.	
Aspiration hazard		

Aspiration hazard

Chemical Name	Aspiration Hazard source information	
Methylstyrene	Based on the NITE GHS classification results.	

Section 12: ECOLOGICAL INFORMATION

*NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Methylstyrene	N/A	LC50:Fathead minnow	N/A
		23.4 mg/L 96 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	
Methylstyrene	Based on the NITE GHS classification	Based on the NITE GHS classification	
	results.	results.	

Persistence and degradability
Bioaccumulative potential
Mobility in soil
Hazard to the ozone layer

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

UN number UN2618

Proper shipping name: Vinyltoluenes, stabilized

UN classfication 3

Subsidiary hazard class

Packing group

Marine pollutant Not applicable

IMDG

UN number UN2618

Proper shipping name: Vinyltoluenes, stabilized

UN classfication 3

Subsidiary hazard class

Packing group III

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 UN2618

Proper shipping name: Vinyltoluenes, stabilized

UN classfication

3

Subsidiary hazard class Packing group

III

Environmentally Hazardous

Not applicable

Substance

Section 15: REGULATORY INFORMATION

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 Act Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57)

Notifiable Substances (Law Art.57-2)

Dangerous Substances - Flammable Substance (Enforcement Order Attached Table 1

Item 4)

Regulations for the carriage and storage of dangerous

Flammable Liquids (Ordinance Art.3, Ministry of Transportation Ordinance Regarding

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)

Marine Pollution Prevention

Enforcement ordinance Appendix No. 1 Noxious liquid substance Category Y

Law

Pollutant Release and Transfer Not applicable

Register Law (2023.4.1-)

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-)
Methylstyrene 25013-15-4 (98.0)	-	Applicable	-

Section 16: OTHER INFORMATION

Key literature references and sources for data etc.

NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput

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. Exposure controls/personal protection.

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