



SAFETY DATA SHEET

Issue Date 25-Nov-2025 Revision Number 2.05

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

Product identifier

Product Name 4-Methyl-2-pentanol

Other means of identification

Product Code(s) 139-04683,133-04686

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 Distributor

FUJIFILM Wako Pure Chemical Corporation FUJIFILM Irvine Scientific

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Chuo-ku Osaka 540-8605, Japan Fax: +1 949 261 6522

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2. HAZARDS IDENTIFICATION

GHS classification

Classification of the substance or mixture

Flammable liquids

Skin corrosion/irritation

Serious eye damage/eye irritation

Specific target organ toxicity (single exposure)

Category 2

Category 2

Category 2

Category 3

Category 3 Respiratory irritation, Narcotic effects

Specific target organ toxicity (repeated exposure)

Category 1

Category 1

Category 1

Pictograms





Signal word

Danger

Hazard statements

H226 - Flammable liquid and vapour

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

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

Precautionary statements-(Prevention)

Do not breathe dust/fume/gas/mist/vapors/spray Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area 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 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

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 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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

Formula (CH3)2CHCH2CH(OH)CH3

Chemical Name	Molecular weight	CAS RN	Weight-%
4-Methyl-2-pentanol	102.17	108-11-2	98.0

Impurities and/or Additives: Not applicable

4. FIRST AID MEASURES

First aid measures

General Information Immediate medical attention is required. In case of accident or unwellness, seek medical

advice immediately (show directions for use or safety data sheet if possible). If symptoms

persist, call a physician.

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

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. Vapors may form explosive mixtures with air.

Explosion data

Sensitivity to Mechanical

Impact

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

none.

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. Dam up. Soak up with inert

absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Soak up

with inert absorbent material.

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 Store away from sunlight 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 handand eye-wash facility. And display their position clearly.

Exposure limits Not applicable

I Chemical Name ACGIH OSHA PEL NIOSH IDLH		Chemical Name	ACGIH	OSHA PEL	NIOSH IDLH
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4-Methyl-2-pentanol	STEL: 40 ppm	TWA: 25 ppm	IDLH: 400 ppm
108-11-2	TWA: 20 ppm	TWA: 100 mg/m ³	TWA: 25 ppm
		(vacated) TWA: 25 ppm	TWA: 100 mg/m ³
		(vacated) TWA: 100 mg/m ³	STEL: 40 ppm
		(vacated) STEL: 40 ppm	STEL: 165 mg/m ³
		(vacated) STEL: 165 mg/m ³	-
		(vacated) S*	
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Personal protective equipment

Respiratory protection gas mask for organic gas (JIS T 8152) Hand protection chemical protective gloves (JIS T 8116)

protective eyeglasses or chemical safety goggles (JIS T 8147) Eye protection

Long-sleeved work clothes Skin and body protection

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form

colorless Color **Turbidity** clear **Appearance** liquid

characteristic odor Odor pН no data available

Melting point/freezing point -90 °C 132 °C Boiling point, initial boiling point and boiling range 41 °C Flash point

no data available **Evaporation rate:** Flammability (solid, gas): no data available

Upper/lower flammability or

explosive limits

5.5 % Upper: 1.0 % Lower: Vapour pressure 3.7 hPa 3.5 (air = 1)Vapour density

Specific Gravity / Relative density 0.805 -0.809 g/m L (20°C)

Solubilities Ethanol and acetone: freely soluble. water: Sparingly soluble.

n-Octanol/water partition coefficient:(log Pow) no data available 370 °C

Auto-ignition temperature:

no data available **Decomposition temperature:** Viscosity (coefficient of viscosity) no data available **Dynamic viscosity** no data available no data available **Particle characteristics**

10. STABILITY AND REACTIVITY

Stability

Chemical stability Stable under recommended storage conditions.

Reactivity no data available

Hazardous reactions

Reacts violently with oxidants.

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
4-Methyl-2-pentanol	2260 mg/kg (Rat)	= 2880 mg/kg (Rabbit)	> 9.5 mg/L (Rat) 4 h

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
:			Based on the NITE GHS classification results.

Chemical Name	Acute toxicity -inhalation	Acute toxicity -inhalation dust-	Acute toxicity -inhalation mist-
	vapor- source information	source information	source information
4-Methyl-2-pentanol	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	
4-Methyl-2-pentanol	Based on the NITE GHS classification results.	
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Serious eye damage/ irritation

Chemical Name	Serious eye damage/irritation source information	
4-Methyl-2-pentanol	Based on the NITE GHS classification results.	

Respiratory or skin sensitization

Chemical Name	Respiratory or Skin sensitization source information
4-Methyl-2-pentanol	Based on the NITE GHS classification results.

Reproductive cell mutagenicity

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Chemical Name	germ cell mutagencity source information	
4-Methyl-2-pentanol	Based on the NITE GHS classification results.	

Carcinogenicity

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	Chemical Name	Carcinogenicity source information
	4-Methyl-2-pentanol	Based on the NITE GHS classification results.

Reproductive toxicity

Chemical Name	Reproductive toxicity source information	
4-Methyl-2-pentanol	Based on the NITE GHS classification results.	
STOT-single exposure		

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Chemical Name	STOT -single exposure- source information			
4-Methyl-2-pentanol	Based on the NITE GHS classification results.			

STOT-repeated exposure

Chemical Name	STOT -repeated exposure- source information	
4-Methyl-2-pentanol	Based on the NITE GHS classification results.	

Aspiration hazard

Chemical Name	Aspiration Hazard source information	
4-Methyl-2-pentanol	Based on the NITE GHS classification results.	

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
4-Methyl-2-pentanol	ErC50 : Pseudokirchneriella	LC50 : Oncorhynchus	N/A	LC50: Daphnia magna
108-11-2	subcapitata	mykiss		337 mg/L 96 h
	334 mg/L 72 h	359 mg/L 96 h		_

Persistence and degradability

No information available

Bioaccumulative potential

No information available

Mobility

no data available

Chemical Name	Partition coefficient	
4-Methyl-2-pentanol 108-11-2	1.43	

Mobility in soilNo information availableOther DataNo 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 Disposal should be in accordance with applicable regional, national and local laws and **disposing contaminated packaging** regulations.

14. TRANSPORT INFORMATION

DOT

UN/ID No UN2053

Proper shipping name: Methyl isobutyl carbinol

UN classfication 3

Subsidiary hazard class

Packing group

Marine pollutant Not applicable

<u>IATA</u>

UN/ID No UN2053

Proper shipping name: Methyl isobutyl carbinol

UN classfication

Subsidiary hazard class

Packing group

Environmentally Hazardous Not applicable

Substance

IMDG

UN/ID No UN2053

Proper shipping name: Methyl isobutyl carbinol

UN classfication

Subsidiary hazard class

Packing group

Marine pollutant (Sea) Not applicable

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 372

Chemical Name	CAS RN	Weight-%	SARA 313 - Threshold Values %
4-Methyl-2-pentanol - 108-11-2	108-11-2	98.0	N/A

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	Yes
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
4-Methyl-2-pentanol	X	X	X
108-11-2			

U.S. EPA Label Information

EPA Pesticide Registration NumberNot applicable

16. OTHER INFORMATION

Issue Date 25-Nov-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