

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product identifier

Product name : 4-Methyl-2-pentanol  
 CAS No. : 108-11-2

### Manufacturer or supplier's details

Company : Heynova (Shanghai) New Material Technology CO., Ltd  
 Address : Building 3, No. 690 Bibo Road, Pudong New Area, Shanghai, China  
 Telephone : +86-178-2110-2608  
 E-mail address : info@heynovachem.com

## 2. HAZARDS IDENTIFICATION



### Emergency Overview

**Appearance** : liquid  
**Color** : colorless  
 Flammable liquid and vapor. May be harmful if swallowed or in contact with skin. Causes mild skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness.

### GHS Classification

Flammable liquids : Category 3  
 Acute toxicity (Oral) : Category 5  
 Acute toxicity (Dermal) : Category 5  
 Skin corrosion/irritation : Category 3  
 Serious eye damage/eye irritation : Category 2A  
 Specific target organ toxicity - single exposure : Category 3 (respiratory tract irritation, Narcotic effects)

### GHS label elements

Hazard pictograms :  

Signal Word : Warning

Hazard Statements : H226 Flammable liquid and vapor.  
 H303 + H313 May be harmful if swallowed or in contact with skin.  
 H316 Causes mild skin irritation.  
 H319 Causes serious eye irritation.  
 H335 May cause respiratory irritation.  
 H336 May cause drowsiness or dizziness.

Precautionary Statements : **Prevention:**  
 P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.

P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ eye protection/ face protection.

**Response:**

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P312 Call a POISON CENTER/ doctor if you feel unwell.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage:**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P403 + P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Physical and chemical hazards**

Flammable liquid and vapor.

**Health hazards**

May be harmful if swallowed. May be harmful in contact with skin. Causes mild skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness.

**Environmental hazards**

Not classified based on available information.

**Other hazards which do not result in classification**

None known.

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Substance

**Components**

Chemical name	CAS RN	Concentration (% w/w)
4-Methyl-2-pentanol	108-11-2	98

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**4. FIRST AID MEASURES**

If inhaled : Remove person to fresh air and keep comfortable for breathing.  
Call a POISON CENTER or doctor/ physician if you feel unwell.

In case of skin contact : Take off all contaminated clothing immediately.  
If on skin, rinse well with water.  
If skin irritation occurs: Get medical advice/ attention.

In case of eye contact : Rinse with plenty of water.  
If easy to do, remove contact lens, if worn.

		If eye irritation persists: Get medical advice/ attention.
If swallowed	:	Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
Most important symptoms and effects, both acute and delayed	:	None known.

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## 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Dry powder, Foam, Water spray, Carbon dioxide (CO <sub>2</sub> )
Specific hazards during fire fighting	:	No information available.
Specific extinguishing methods	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Immediately evacuate personnel to safe areas. Remove undamaged containers from fire area if it is safe to do so.
Special protective equipment for fire-fighters	:	Use personal protective equipment.

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## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Wear suitable protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.
Environmental precautions	:	Prevent product from entering drains.
Methods and materials for containment and cleaning up	:	Collect as much of the spill as possible with a suitable absorbent material.

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## 7. HANDLING AND STORAGE

### Handling

Technical measures	:	Prevent generation of vapor or mist. Take precautionary measures against static discharge. Use explosion-proof equipment.
Local/Total ventilation	:	Ensure adequate ventilation. Handle product only in closed system or provide appropriate exhaust ventilation at machinery. Use a local exhaust ventilation.
Advice on safe handling	:	Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not subject to grinding, shock or friction. Wash hands and face thoroughly after handling.
Avoidance of contact	:	Oxidizing agents

### Storage

Conditions for safe storage	:	Keep container tightly closed. Store in a cool and shaded area.
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Keep in a well-ventilated place.  
 Use explosion-proof equipment.  
 Store locked up.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Components	CAS RN	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
4-Methyl-2-pentanol	108-11-2	TWA	20 ppm	ACGIH
		STEL	40 ppm	ACGIH

**Engineering measures** : Install a closed system or local exhaust.  
 Also install safety shower and eye bath.

### Personal protective equipment

Respiratory protection : Gas mask  
 Self-contained breathing apparatus

Eye/face protection : Safety glasses  
 Safety goggles  
 Face-shield

Skin and body protection : Impervious protective clothing

Hand protection : Impervious gloves

\*Use personal protective equipment(PPE) approved under appropriate government standards and follow local and national regulations.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : colorless

Odor : No data available

Odor Threshold : 0.070 ppm

pH : No data available

Melting point/freezing point : -90 °C

Boiling point/boiling range : 132 °C

Flash point : 43 °C

Evaporation rate : No data available

Flammability : No data available

Upper explosion limit / Upper flammability limit : 5.5 %(V)

Lower explosion limit / Lower flammability limit : 1 %(V)

Vapor pressure : 0.7 kPa (25 °C)

Relative vapor density : 3.5

Relative density : 0.81

Solubility(ies)	
Water solubility	: slightly soluble
Solubility in other solvents	: soluble Solvent: Ether
	: soluble Solvent: Alcohol
Partition coefficient: n-octanol/water	: 1.43
Autoignition temperature	: 370 °C
Decomposition temperature	: No data available
Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Molecular weight	: 102.18 g/mol

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## 10. STABILITY AND REACTIVITY

Reactivity	: No data available
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: None under normal processing.
Conditions to avoid	: Electrical spark Open flame Electrostatic discharge
Incompatible materials	: Oxidizing agents
Hazardous decomposition products	: Carbon monoxide, Carbon dioxide (CO <sub>2</sub> )

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## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Product:

Acute oral toxicity	: Assessment: The component/mixture is minimally toxic after single ingestion.
Acute dermal toxicity	: Assessment: The component/mixture is minimally toxic after single contact with skin.

#### Components:

##### **4-Methyl-2-pentanol:**

Acute oral toxicity	: LD <sub>50</sub> (Rat): 2,590 mg/kg Assessment: The component/mixture is minimally toxic after single ingestion.
Acute inhalation toxicity	: LCLo (Rat): 2000 ppm Exposure time: 4 h Test atmosphere: gas

Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): 2,883.6 mg/kg  
 Assessment: The component/mixture is minimally toxic after single contact with skin.

#### **Skin corrosion/irritation**

##### **Product:**

Result : Mild skin irritation

##### **Components:**

##### **4-Methyl-2-pentanol:**

Result : Mild skin irritation

#### **Serious eye damage/eye irritation**

##### **Product:**

Result : Eye irritation

##### **Components:**

##### **4-Methyl-2-pentanol:**

Result : Eye irritation

**Respiratory or skin sensitization** : No information available.

**Germ cell mutagenicity** : No information available.

**Carcinogenicity** : No information available.

**Reproductive toxicity** : No information available.

#### **STOT-single exposure**

##### **Product:**

Assessment : May cause respiratory irritation.  
 May cause drowsiness or dizziness.

##### **Components:**

##### **4-Methyl-2-pentanol:**

Assessment : May cause respiratory irritation.  
 May cause drowsiness or dizziness.

**STOT-repeated exposure** : No information available.

**Repeated dose toxicity** : No information available.

**Aspiration toxicity** : No information available.

**RTECS No.** : SA7350000 (4-Methyl-2-pentanol)

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## **12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential****Components:****4-Methyl-2-pentanol:**Partition coefficient: n-  
octanol/water : 1.43**Mobility in soil****Components:****4-Methyl-2-pentanol:**Distribution among environmen-  
tal compartments : Koc: 143**Other adverse effects**

No data available

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**13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues	:	Disposal in accordance with local and national regulations. Take precautions against ignition or explode. Entrust disposal to a licensed waste disposal company.
Contaminated packaging	:	Disposal in accordance with local and national regulations. Before disposal of used container, remove contents completely.

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**14. TRANSPORT INFORMATION****International Regulations****IATA-DGR**

UN/ID No.	:	UN 2053
Proper shipping name	:	Methyl isobutyl carbinol
Class	:	3
Packing group	:	III

**IMDG-Code**

UN number	:	UN 2053
Proper shipping name	:	METHYL ISOBUTYL CARBINOL
Class	:	3
Packing group	:	III
EmS Code	:	F-E, S-D

**Domestic regulation****GB 6944/12268**

UN number	:	UN 2053
Proper shipping name	:	METHYL ISOBUTYL CARBINOL
Class	:	3
Packing group	:	III

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**15. REGULATORY INFORMATION****Regulations on Safety Management of Hazardous Chemicals**

Catalogue of Hazardous Chemicals : Listed

**The ingredients of this product are reported in the following inventories:**

CH BAGREG	: On the inventory, or in compliance with the inventory
TSCA	: All substances listed as active on the TSCA inventory
AICS	: On the inventory, or in compliance with the inventory
DSL	: All components of this product are on the Canadian DSL
ENCS	: On the inventory, or in compliance with the inventory
ISHL	: On the inventory, or in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
PICCS	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory
NZIoC	: On the inventory, or in compliance with the inventory

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**16. OTHER INFORMATION**

Revision Date	: 2024/10/05
Date format	: yyyy/mm/dd

**Disclaimer**

This SDS was prepared sincerely based on the information obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling operations, sufficient care should be taken, in addition to the safety measures suitable for the given situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.