

# SAFETY DATA SHEET

Version 6.9 Revision Date 10/27/2023 Print Date 05/12/2024

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name : 2-Methyl-1-pentanol

Product Number : 214019
Brand : Aldrich
CAS-No. : 105-30-6

## 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

# 1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.

3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES

Telephone : +1 314 771-5765 Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-

527-3887 CHEMTREC (International) 24

Hours/day; 7 Days/week

# **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

#### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 3), H226 Acute toxicity, Oral (Category 4), H302

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 2.2 GHS Label elements, including precautionary statements

Pictogram

Signal Word Warning

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| Hazard statement(s)<br>H226<br>H302 | Flammable liquid and vapor.<br>Harmful if swallowed.   |
|-------------------------------------|--|
| Precautionary statement(s)          |  |
| 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.  |
| P264                                | Wash skin thoroughly after handling.   |
| P270                                | Do not eat, drink or smoke when using this product.  |
| P280                                | Wear protective gloves/ eye protection/ face protection.   |
| P301 + P312 + P330                  | IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.                          |
| P303 + P361 + P353                  | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. |
| P370 + P378                         | In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.                 |
| P403 + P235                         | Store in a well-ventilated place. Keep cool.   |
| P501                                | Dispose of contents/ container to an approved waste disposal plant.                                  |

# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

# **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

| Component           | Classification              | Concentration |
|---------------------|-----------------------------|---------------|
| 2-Methylpentan-1-ol |                             |               |
|                     | Flam. Liq. 3; Acute Tox. 4; | <= 100 %      |
|                     | H226, H302                  |               |

For the full text of the H-Statements mentioned in this Section, see Section 16.

## **SECTION 4: First aid measures**

# 4.1 Description of first-aid measures

### **General advice**

Show this material safety data sheet to the doctor in attendance.

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Millipore SiGMa

#### If inhaled

After inhalation: fresh air.

#### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

#### In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

#### If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

# 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

# 4.3 Indication of any immediate medical attention and special treatment needed

No data available

# **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

# Suitable extinguishing media

Dry powderDry sandFoam Carbon dioxide (CO2) Dry powder

## Unsuitable extinguishing media

Do NOT use water jet. For this substance/mixture no limitations of extinguishing agents are given.

# 5.2 Special hazards arising from the substance or mixture

Carbon oxides

Combustible.

Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air at elevated temperatures.

Development of hazardous combustion gases or vapours possible in the event of fire.

#### **5.3** Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

#### 5.4 Further information

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

### **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

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# **6.2 Environmental precautions**

Do not let product enter drains. Risk of explosion.

# 6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

# **6.4** Reference to other sections

For disposal see section 13.

# **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

# Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

# **Hygiene measures**

Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance.

For precautions see section 2.2.

## 7.2 Conditions for safe storage, including any incompatibilities

## **Storage conditions**

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.

#### Storage class

Storage class (TRGS 510): 3: Flammable liquids

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

#### **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

#### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

# 8.2 Exposure controls

### **Appropriate engineering controls**

Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance.

## Personal protective equipment

#### **Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

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# Skin protection

required

## **Body Protection**

Flame retardant antistatic protective clothing.

# **Respiratory protection**

Recommended Filter type: Filter type ABEK

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

required when vapours/aerosols are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

# Control of environmental exposure

Do not let product enter drains. Risk of explosion.

## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

a) Appearance Form: clear, liquid

Color: colorless

b) Odor
c) Odor Threshold
d) pH
e) Melting
No data available
No data available
No data available

point/freezing point

148 °C 298 °F - lit.

i) Initial boiling point and boiling range

53 °C (127 °F) - closed cup

h) Evaporation rate No data availablei) Flammability (solid, No data available

gas)

q) Flash point

j) Upper/lower Upper explosion limit: 9.6 %(V) flammability or Lower explosion limit: 1.1 %(V)

explosive limits

k) Vapor pressure 2 hPa at 20 °C (68 °F)

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I) Vapor density 3.53 - (Air = 1.0)

m) Density 0.824 g/cm3 at 25 °C (77 °F) - lit.

Relative density
No data available
No data available
Partition coefficient:
No data available

n-octanol/water

p) Autoignition No data available

temperature

q) Decomposition No data available

temperature

r) Viscosity No data availables) Explosive properties No data availablet) Oxidizing properties No data available

# 9.2 Other safety information

Relative vapor 3.53 - (Air = 1.0)

density

# **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

Vapor/air-mixtures are explosive at intense warming.

## 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

# 10.3 Possibility of hazardous reactions

No data available

#### 10.4 Conditions to avoid

Heating.

## 10.5 Incompatible materials

acids, Acid chlorides, Oxidizing agents

# 10.6 Hazardous decomposition products

In the event of fire: see section 5

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

#### **Acute toxicity**

LD50 Oral - Rat - 1,410 mg/kg Inhalation: No data available Dermal: No data available

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Millipore SiGMa No data available

## Skin corrosion/irritation

Skin - Rabbit

Result: Mild skin irritation - 24 h

### Serious eye damage/eye irritation

Remarks: No data available

## Respiratory or skin sensitization

No data available

# Germ cell mutagenicity

No data available

## Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

# **Reproductive toxicity**

No data available No data available

# Specific target organ toxicity - single exposure

No data available

# Specific target organ toxicity - repeated exposure

No data available

### **Aspiration hazard**

No data available

# 11.2 Additional Information

RTECS: SA7175000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

No data available

#### 12.2 Persistence and degradability

No data available

# 12.3 Bioaccumulative potential

No data available

# 12.4 Mobility in soil

No data available

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Millipore

#### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

## 12.6 Endocrine disrupting properties

No data available

#### 12.7 Other adverse effects

No data available

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### **Product**

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

# **SECTION 14: Transport information**

DOT (US)

NA-Number: 1987 Class: 3 Packing group: III

Proper shipping name: Alcohols, n.o.s.

Reportable Quantity (RQ):

Poison Inhalation Hazard: No

**IMDG** 

UN number: 1987 Class: 3 Packing group: III EMS-No: F-E, S-D

Proper shipping name: ALCOHOLS, N.O.S. (2-Methylpentan-1-ol)

**IATA** 

UN number: 1987 Class: 3 Packing group: III Proper shipping name: Alcohols, n.o.s. (2-Methylpentan-1-ol)

# **SECTION 15: Regulatory information**

# **SARA 302 Components**

This material does not contain any components with a section 302 EHS TPQ.

### **SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

## SARA 311/312 Hazards

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Fire Hazard, Acute Health Hazard

## **Massachusetts Right To Know Components**

2-Methylpentan-1-ol

CAS-No. 105-30-6

Revision Date 2016-09-09

#### **SECTION 16: Other information**

#### **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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