

# **SAFETY DATA SHEET**

Version 6.4 Revision Date 09/07/2024 Print Date 09/08/2024

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

## **1.1** Product identifiers

	Product name	:	4,4-Dimethyl-1-pentene	
	Product Number Brand CAS-No.	:	110701 Aldrich 762-62-9	
1.2	Relevant identified uses of the substance or mixture and uses advised against			
	Identified uses	:	Laboratory chemicals, Synthesis of substances	
	Uses advised against	:	The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.	
1.3	Details of the supplier of the safety data sheet			
	Company	:	Sigma-Aldrich Inc. 3050 SPRUCE ST	

: 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24

## **SECTION 2: Hazards identification**

**Emergency telephone** 

Emergency Phone #

Telephone

Fax

1.4

## **2.1** Classification of the substance or mixture

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

Flammable liquids (Category 2), H225 Aspiration hazard (Category 1), H304

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

ST. LOUIS MO 63103 UNITED STATES

: +1 314 771-5765

:

+1 800 325-5052

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## 2.2 GHS Label elements, including precautionary statements

Pictogram	
Signal Word	Danger
Hazard Statements H225 H304	Highly flammable liquid and vapor. May be fatal if swallowed and enters airways.
Precautionary Statements	
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.
P280	Wear protective gloves/ eye protection/ face protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P331	Do NOT induce vomiting.
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.
P405	Store locked up.
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

: C <sub>7</sub> H <sub>14</sub>						
: 98.19 g/mol						
: 762-62-9						
: 212-101-9						
	Classification	Concentration				
4,4-Dimethylpent-1-ene						
	Flam. Liq. 2; Asp. Tox. 1; H225, H304	<= 100 %				
	: 98.19 g/mol : 762-62-9 : 212-101-9	: 98.19 g/mol : 762-62-9 : 212-101-9 Classification 1-ene Flam. Liq. 2; Asp. Tox. 1;				

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

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## **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.

### 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: caution if victim vomits. Risk of aspiration! Keep airways free. Pulmonary failure possible after aspiration of vomit. Call a physician immediately.

## 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

## **Unsuitable extinguishing media** For this substance/mixture no limitations of extinguishing agents are given.

#### **5.2 Special hazards arising from the substance or mixture** Carbon oxides Pay attention to flashback. Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air at ambient temperatures.

## 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.

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For personal protection see section 8.

## 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 carefully 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. 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. 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.

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

		•	
õ	a)	Appearance	Form: clear, liquid Color: colorless
ł	<b>)</b> )	Odor	No data available
C	<b>:</b> )	Odor Threshold	No data available
(	d)	рН	No data available
e	e)	Melting point/freezing point	No data available
f	-)	Initial boiling point and boiling range	72 °C 162 °F - lit.
ç	g)	Flash point	-12 °C (10 °F) - closed cup
ł	า)	Evaporation rate	No data available
i	)	Flammability (solid, gas)	No data available
j	i)	Upper/lower flammability or explosive limits	Lower explosion limit: 1 %(V)
ł	<)	Vapor pressure	308 hPa at 37.7 °C (99.9 °F)
I	)	Vapor density	No data available
ľ	n)	Density	0.683 g/cm3 at 25 °C (77 °F) - lit.
		Relative density	No data available
ľ	า)	Water solubility	No data available
(	c)	Partition coefficient:	No data available
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n-octanol/water

- p) Autoignition No data available temperature
- q) Decomposition No data available temperature
- r) Viscosity No data available
- s) Explosive properties No data available
- t) Oxidizing properties No data available

# 9.2 Other safety information No data available

## **SECTION 10: Stability and reactivity**

#### **10.1 Reactivity**

Vapors may form explosive mixture with air.

#### **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** Warming.
- **10.5 Incompatible materials** Strong 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

Oral: No data available Inhalation: No data available Dermal: No data available No data available

#### **Skin corrosion/irritation** Remarks: No data available

#### Serious eye damage/eye irritation Remarks: No data available

#### **Respiratory or skin sensitization** No data available

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## 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**

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

## **11.2 Additional Information**

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
- 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
- **12.6 Endocrine disrupting properties** No data available
- **12.7 Other adverse effects** No data available

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### **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)

UN number: 3295 Class: 3 Packing group: II Proper shipping name: Hydrocarbons, liquid, n.o.s. Reportable Quantity (RQ): Poison Inhalation Hazard: No

## IMDG

UN number: 3295 Class: 3 Packing group: II EMS-No: F-E, S-D Proper shipping name: HYDROCARBONS, LIQUID, N.O.S.

#### ΙΑΤΑ

UN number: 3295 Class: 3 Packing group: II Proper shipping name: Hydrocarbons, liquid, n.o.s.

#### **SECTION 15: Regulatory information**

#### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Components	CAS-No.	Component TPQ (lbs)	
SARA 311/312 Hazards	: Fire Hazar	rd	
SARA 313	componen threshold	<ul> <li>This material does not contain any chemical components with known CAS numbers that exceed th threshold (De Minimis) reporting levels established b SARA Title III, Section 313.</li> </ul>	

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US State Regulations	
Massachusetts Right To Know	
No components are subject to the Massachusett	s Right to Know Act.
Massachusetts Right To Know	
No components are subject to the Massachusett	s Right to Know Act.
Pennsylvania Right To Know	
4,4-Dimethylpent-1-ene	762-62-9
Maine Chemicals of High Concern	
Product does not contain any listed chemicals	
Vermont Chemicals of High Concern	
Product does not contain any listed chemicals	
Washington Chemicals of High Concern	
Product does not contain any listed chemicals	
New Jersey Right To Know	
4,4-Dimethylpent-1-ene	762-62-9
The ingredients of this product are reported in the f	ollowing inventories

## ::

TSCA

: Product contains substance(s) not listed on TSCA inventory.

## **TSCA list**

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

## **SECTION 16: Other information**

## **Further information**

The information is believed to be correct but is not exhaustive and will be used solely as a quideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. 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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