

# **SAFETY DATA SHEET**

Version 8.6 Revision Date 09/08/2024 Print Date 09/09/2024

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

### **1.1** Product identifiers

	Product name	:	2,6-Dimethyl-2-Heptanol
	Product Number Brand CAS-No.	:	CDS001576 Aldrich 13254-34-7
1.2	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

## 1.3

Company	:	Sigma-Aldrich Inc. 3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES
Telephone Fax		+1 314 771-5765 +1 800 325-5052
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 4), H227 Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319 Short-term (acute) aquatic hazard (Category 3), H402

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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
Hazard Statements H227 H315 H319 H402	Combustible liquid. Causes skin irritation. Causes serious eye irritation. Harmful to aquatic life.
Precautionary Statements	
P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P264 P273 P280 P302 + P352 P305 + P351 + P338	Wash skin thoroughly after handling. Avoid release to the environment. Wear protective gloves/ eye protection/ face protection. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue
P332 + P313 P337 + P313 P362 P370 + P378 P403 + P235 P501	rinsing. If skin irritation occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention. Take off contaminated clothing and wash before reuse. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. Store in a well-ventilated place. Keep cool. 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

Formula	:	C9H20O
CAS-No.	:	13254-34-7

Component	Classification	Concentration
2,6-Dimethyl-heptane-2-ol		
	Flam. Liq. 4; Skin Irrit. 2; Eye Irrit. 2A; Aquatic Acute 3; H227, H315, H319, H402	<= 100 %

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. Call in ophthalmologist. 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

Foam Carbon dioxide (CO2) Dry powder

### 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

Combustible.

Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

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

## 5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

### 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.

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## **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.
- **6.2 Environmental precautions** Do not let product enter drains.
- 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**

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.

## 7.2 Conditions for safe storage, including any incompatibilities

**Storage conditions** Tightly closed.

**Storage class** Storage class (TRGS 510): 10: Combustible 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.

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### 8.2 Exposure controls

## Appropriate engineering controls

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face 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

## Skin protection

required

## **Body Protection**

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.

# SECTION 9: Physical and chemical properties

# 9.1 Information on basic physical and chemical properties

	-	
a)	Appearance	Form: liquid Color: colorless
b)	Odor	No data available
c)	Odor Threshold	No data available
d)	pН	No data available
e)	Melting point/freezing point	Melting point/freezing point: < -80 °C (< -112 °F) - OECD Test Guideline 102
f)	Initial boiling point and boiling range	177 °C 351 °F at 1,010 hPa - OECD Test Guideline 103
g)	Flash point	68 °C (154 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower	No data available

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flammability or explosive limits

- k) Vapor pressure 0.185 hPa at 20 °C (68 °F) OECD Test Guideline 104
- I) Vapor density No data available
- m) Density No data available
- Relative density 0.81 OECD Test Guideline 109
- n) Water solubility 0.745 g/l at 20 °C (68 °F) OECD Test Guideline 105
- o) Partition coefficient: log Pow: 3 at 45 °C (113 °F) OECD Test Guideline 117 n-octanol/water Bioaccumulation is not expected.
- 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 none

## 9.2 Other safety information

Surface tension

37.4 mN/m at 20 °C (68 °F) - OECD Test Guideline 115

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

### **10.1 Reactivity**

Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical.

### **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** Strong heating.
- **10.5 Incompatible materials** Strong oxidizing agents
- **10.6 Hazardous decomposition products** In the event of fire: see section 5

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## SECTION 11: Toxicological information

## 11.1 Information on toxicological effects

### Acute toxicity

LD50 Oral - Rat - 6,800 mg/kg Remarks: (RTECS) Inhalation: No data available LD50 Dermal - Rabbit - > 5,000 mg/kg Remarks: (RTECS)

## Skin corrosion/irritation

Skin - Rabbit Result: Irritating to skin. Remarks: (RTECS)

### Serious eye damage/eye irritation

Eyes - Rabbit Result: Causes serious eye irritation. Remarks: (RTECS)

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

## Germ cell mutagenicity

Test Type: Micronucleus test Test system: Human lymphocytes Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 487 Result: negative Test Type: Ames test Test system: S. typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative

### 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

Specific target organ toxicity - single exposure No data available

**Specific target organ toxicity - repeated exposure** No data available

**Aspiration hazard** No data available

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### **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**

Toxicity to fish static test LC50 - Danio rerio (zebra fish) - 23.9 mg/l - 96 h (OECD Test Guideline 203)

### **12.2** Persistence and degradability

Biodegradability

aerobic - Exposure time 28 d Result: 75 % - Readily biodegradable. (OECD Test Guideline 301F)

- 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** 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)

Not dangerous goods

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**IMDG** Not dangerous goods

### ΙΑΤΑ

Not dangerous goods

### **Further information**

Not classified as dangerous in the meaning of transport regulations.

### **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

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

SARA 311/312 Hazards	:	Acute Health Hazard
SARA 313	:	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.

### **US State Regulations**

### Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

### 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

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

TSCA : All substances listed as active on the 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.

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## **SECTION 16: Other information**

### **Further information**

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, 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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