

# **SAFETY DATA SHEET**

Version 6.6 Revision Date 03/02/2024 Print Date 07/14/2024

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

## **1.1 Product identifiers**

Company

Telephone

Fax

1.4

	Product name	:	a-Methylbenzyl alcohol
	Product Number Brand CAS-No.	:	W268518 Aldrich 98-85-1
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

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

# SECTION 2: Hazards identification

**Emergency telephone** 

Emergency Phone #

#### 2.1 Classification of the substance or mixture

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

: Sigma-Aldrich Inc.

: +1 314 771-5765

: +1 800 325-5052

Hours/day; 7 Days/week

3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES

Flammable liquids (Category 4), H227 Acute toxicity, Oral (Category 4), H302 Eye irritation (Category 2A), H319

For the full text of the H-Statements mentioned in this Section, see Section 16.  $\ensuremath{\mathsf{Aldrich}}$  - W268518

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## 2.2 GHS Label elements, including precautionary statements

Pictogram	
Signal Word	Warning
Hazard Statements H227 H302 H319	Combustible liquid. Harmful if swallowed. Causes serious eye irritation.
Precautionary Statements P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P264 P270	Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product.
P280 P301 + P312 + P330	Wear protective gloves/ eye protection/ face protection. IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 P370 + P378	If eye irritation persists: Get medical advice/ attention. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P403 + P235 P501	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** May form explosive peroxides.

## SECTION 3: Composition/information on ingredients

<b>Substances</b> Synonyms	:	Styrallyl alcohol Styrene alcohol (±)-1-Phenylethanol Methyl phenyl carbin (±)-a-Methylbenzyl a	ol	
Formula Molecular weight CAS-No. EC-No.	:	C <sub>8</sub> H <sub>10</sub> O 122.16 g/mol 98-85-1 202-707-1		
Component			Classification	Concentration
(±)-a-methylbenzyl ald	-a-methylbenzyl alcohol			
			Flam. Liq. 4; Acute Tox. 4; Eye Irrit. 2A; H227, H302, H319	<= 100 %

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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.

#### 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 Water 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

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

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## 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.

#### **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 and neutralising material (e.g. Chemizorb<sup>®</sup> H<sup>+</sup>, Merck Art. No. 101595). 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

Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

#### Storage class

Storage class (TRGS 510): 6.1C: Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects

## 7.3 Specific end use(s)

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

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## 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

#### 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: clear, liquid Color: colorless b) Odor No data available c) Odor Threshold No data available 4.44 at 24.36 °C (75.85 °F) - OECD Test Guideline 122 - acidic d) pH Melting point/range: 19 - 20 °C (66 - 68 °F) - lit. e) Melting point/freezing point Initial boiling point 204 °C 399 °F at 993 hPa - lit. f) and boiling range

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g	) Flash point	86.6 °C (187.9 °F) - Pensky-Martens closed cup - ISO 2719			
h	) Evaporation rate	No data available			
i)	Flammability (solid, gas)	No data available			
j)	) Upper/lower flammability or explosive limits	Upper explosion limit: 4.9 %(V) Lower explosion limit: 1.8 %(V)			
k	) Vapor pressure	0.13332 hPa at 20 °C (68 °F)			
I)	Vapor density	4.22 - (Air = 1.0)			
n	n) Density	1.012 g/cm3 at 25 °C (77 °F) - lit.			
	Relative density	No data available			
n	) Water solubility	3.7 g/l at 25 °C (77 °F) - OECD Test Guideline 105 - soluble			
0	) Partition coefficient: n-octanol/water	log Pow: 6.2 at 25 °C (77 °F) - Potential bioaccumulation			
р	) Autoignition temperature	not auto-flammable			
q	) Decomposition temperature	No data available			
r	) Viscosity	31.86 mm2/s at 20 °C (68 °F) - OECD Test Guideline 114 - 15.2 mm2/s at 40 °C (104 °F) - OECD Test Guideline 114 -			
s	) Explosive properties	No data available			
ť	) Oxidizing properties	none			
Other safety information					
	Dissociation constant	0 at 28 °C (82 °F)			
	Relative vanor	4.22 - (Air - 1.0)			

Relative vapor 4.22 - (Air = 1.0) density

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

## **10.1 Reactivity**

9.2

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) . Stable under recommended storage conditions. Test for peroxide formation before distillation or evaporation. Test for peroxide formation or discard after 1 year.

# **10.3** Possibility of hazardous reactions

No data available

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#### **10.4 Conditions to avoid** Strong heating.

- 10.5 Incompatible materials No data available
- **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 - female - 500 mg/kg (OECD Test Guideline 423) Inhalation: No data available LD50 Dermal - Rabbit - female - > 2,000 mg/kg (OECD Test Guideline 402)

## Skin corrosion/irritation

Skin - Rabbit Result: No skin irritation - 4 h (OECD Test Guideline 404)

## Serious eye damage/eye irritation

Eyes - Rabbit Result: Irritating to eyes. - 24 h (OECD Test Guideline 405)

## **Respiratory or skin sensitization**

Draize Test - Guinea pig Result: negative Remarks: (ECHA)

## Germ cell mutagenicity

Test Type: Ames test Test system: S. typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Test Type: In vitro mammalian cell gene mutation test Test system: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative

Test Type: In vivo micronucleus test Species: Mouse Cell type: Bone marrow Application Route: Oral Method: OECD Test Guideline 474 Result: negative

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## Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

- 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

## **11.2 Additional Information**

Repeated dose toxicity - Mouse - male and female - Oral - 16 Days - NOAEL (No observed adverse effect level) - 500 mg/kg Remarks: (ECHA)

Cough, Shortness of breath, Headache, Nausea, Vomiting To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

After absorption of large quantities:

Possible symptoms:

Nausea Vomiting Dizziness

Damage to:

Cardiac

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence

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## SECTION 12: Ecological information

## 12.1 Toxicity

Toxicity to fish	static test LC50 - Danio rerio (zebra fish) - > 100 mg/l  - 96 h (OECD Test Guideline 203)
Toxicity to algae	static test ErC50 - Chlorella vulgaris (Fresh water algae) - > 200 mg/l - 72 h (OECD Test Guideline 201)

## 12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 28 d Result: 100 % - Readily biodegradable. Remarks: (ECHA)

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 Endeering diamenting preparties
- **12.6 Endocrine disrupting properties** No data available

#### 12.7 Other adverse effects

Discharge into the environment must be avoided.

## **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: 2937 Class: 6.1 Packing group: III Proper shipping name: alpha-Methylbenzyl alcohol, liquid Reportable Quantity (RQ): Aldrich - W268518

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Poison Inhalation Hazard: No

#### IMDG

UN number: 2937 Class: 6.1 Packing group: III Proper shipping name: alpha-METHYLBENZYL ALCOHOL, LIQUID EMS-No: F-A, S-A

#### ΙΑΤΑ

UN number: 2937 Class: 6.1 Packing group: III Proper shipping name: alpha-Methylbenzyl alcohol, liquid

## **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

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

#### **Massachusetts Right To Know Components**

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

# **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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