

# **SAFETY DATA SHEET**

Version 6.4 Revision Date 08/01/2023 Print Date 04/14/2024

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

### **1.1 Product identifiers**

Product name	<sup>:</sup> Methyl benzoate
Product Number	: W268313
Brand	: Aldrich
CAS-No.	: 93-58-3

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

Identified uses	: L	aboratory	chemicals,	S	ynthesis	of	substances
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## 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 Fax		+1 314 771-5765 +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 4), H227 Acute toxicity, Oral (Category 4), H302 Short-term (acute) aquatic hazard (Category 3), H402

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

# 2.2 GHS Label elements, including precautionary statements

Pictogram



Warning

Signal Word

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Hazard statement(s) H227 H302 H402	Combustible liquid. Harmful if swallowed. Harmful to aquatic life.
Precautionary statement(s)	
P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection/ face protection.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
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	<b>Substances</b> Formula Molecular weight CAS-No. EC-No.	C <sub>8</sub> H <sub>8</sub> O₂ 136.15 g/mol 93-58-3 202-259-7		
	Component		Classification	Concentration
	Methyl benzoate			
			Flam. Liq. 4; Acute Tox. 4;	<= 100 %
			Aquatic Acute 3; H227, H302, H402	

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.

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# 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

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.

### 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 material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

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### **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.

#### 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.

### 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**

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Full contact

Material: butyl-rubber Minimum layer thickness: 0.7 mm Break through time: 480 min

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Material tested:Butoject® (KCL 898)

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Splash contact

Material: Nitrile rubber Minimum layer thickness: 0.4 mm Break through time: 10 min Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

# **Body Protection**

protective clothing

# **Respiratory protection**

Recommended Filter type: Filter A (acc. to DIN 3181) for vapours of organic compounds

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

а	) Appearance	Form: clear, liquid Color: colorless				
b	) Odor	characteristic odour				
с	) Odor Threshold	No data available				
d	) рН	No data available				
e	) Melting point/freezing point	Melting point/range: -12 °C (10 °F) - lit.				
f)	) Initial boiling point and boiling range	198 - 199 °C 388 - 390 °F - lit.				
g	) Flash point	77 °C (171 °F) - Pensky-Martens closed cup				
h	) Evaporation rate	No data available				
i)	) Flammability (solid, gas)	No data available				
j)	) Upper/lower flammability or explosive limits	Upper explosion limit: 20 %(V) Lower explosion limit: 8.6 %(V)				
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	k)	Vapor pressure	0.51 hPa at 25 °C (77 °F)		
	I)	Vapor density	4.7 - (Air = 1.0)		
	m)	Density	1.088 g/cm3 at 20 °C (68 °F) - lit.		
		Relative density	1.0820 °C - OECD Test Guideline 109		
	n)	Water solubility	2.1 g/l at 20 °C (68 °F) - soluble		
	o)	Partition coefficient: n-octanol/water	log Pow: 2.1 - Bioaccumulation is not expected.		
	p)	Autoignition temperature	537 - 547 °C (999 - 1017 °F) at 1,019 hPa		
	q)	Decomposition temperature	No data available		
	r)	Viscosity	No data available		
	s)	Explosive properties	No data available		
	t)	Oxidizing properties	none		
Other safety information					

Relative vapor 4.7 - (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) .

# **10.3 Possibility of hazardous reactions**

Violent reactions possible with: Strong oxidizing agents strong alkalis rubber various plastics

### **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

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# SECTION 11: Toxicological information

# 11.1 Information on toxicological effects

## Acute toxicity

LD50 Oral - Rat - male - 1,625 mg/kg (OECD Test Guideline 401) Symptoms: Stomach/intestinal disorders, Nausea, Vomiting Inhalation: No data available Dermal: No data available

# Skin corrosion/irritation

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

## Serious eye damage/eye irritation

Eyes - Rabbit Result: No eye irritation - 72 h (OECD Test Guideline 405)

# Respiratory or skin sensitization

Local lymph node assay (LLNA) - Mouse Result: negative (OECD Test Guideline 429)

# Germ cell mutagenicity

Test Type: Mutagenicity (mammal cell test): micronucleus. Test system: Human lymphocytes Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 487 Result: negative Test Type: In vitro mammalian cell gene mutation test Test system: Chinese hamster lung cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 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

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# Aspiration hazard

No data available

# **11.2 Additional Information**

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

Systemic effects:

Headache Dizziness

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

# SECTION 12: Ecological information

# **12.1 Toxicity**

Toxicity to fish	semi-static test LC50 - Danio rerio (zebra fish) - 23 mg/l - 96 h (Regulation (EC) No. 440/2008, Annex, C.1)
Toxicity to algae	static test ErC50 - Desmodesmus subspicatus (green algae) - 111.9 mg/l - 72 h (Directive 67/548/EEC, Annex V, C.3.)
Toxicity to bactoria	

Toxicity to bacteria

# 12.2 Persistence and degradability

Biodegradability

aerobic - Exposure time 29 d Result: 62 % - Readily biodegradable. (Regulation (EC) No. 440/2008, Annex, C.4-C) Remarks: The 10 day time window criterion is not fulfilled.

#### **12.3 Bioaccumulative potential** No data available

ino data avallable

# 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**

Discharge into the environment must be avoided.

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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)

NA-Number: 1993 Class: NONE Packing group: III Proper shipping name: Combustible liquid, n.o.s. (Methyl benzoate) Reportable Quantity (RQ): Poison Inhalation Hazard: No

#### IMDG

Not dangerous goods

### ΙΑΤΑ

Not dangerous goods

## 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

#### Massachusetts Right To Know Components

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

# **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

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