

# SAFETY DATA SHEET

Version 8.4 Revision Date 03/02/2024 Print Date 05/12/2024

# I.1 Product identifiers Product name : Menthone Product Number : 95401 Brand : Sigma-Aldrich

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

Brand : Sigma-Aldrich CAS-No. : 10458-14-7

# **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 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 Eye irritation (Category 2A), H319 Respiratory sensitization (Category 1), H334 Short-term (acute) aquatic hazard (Category 3), H402 Sigma-Aldrich - 95401

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Long-term (chronic) aquatic hazard (Category 3), H412

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

# 2.2

2	GHS Label elements, including precautionary statements			
	Pictogram			
	Signal Word	Danger		
	Hazard Statements			
	H227	Combustible liquid.		
	H302	Harmful if swallowed.		
	H319	Causes serious eye irritation.		
	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.		
	H412	Harmful to aquatic life with long lasting effects.		
	Precautionary Statements			
	P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.		
	P261	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.		
	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.		
	P285	In case of inadequate ventilation wear respiratory protection.		
	P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.		
	P304 + P341	IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.		
	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	If eye irritation persists: Get medical advice/ attention.		
	P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.		
	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		
	Formula	:	$C_{10}H_{18}O$
	Molecular weight	:	154.25 g/mol
	CAS-No.	:	10458-14-7
	EC-No.	:	233-944-9

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Component	Classification	Concentration
p-Menthan-3-one		
	Flam. Liq. 4; Acute Tox. 4; Eye Irrit. 2A; Resp. Sens. 1; Aquatic Acute 3; Aquatic Chronic 3; H227, H302, H319, H334, H402, H412	<= 100 %

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**

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

#### If inhaled

After inhalation: fresh air. Call in physician.

#### 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.

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# 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 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 safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

#### 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 locked up or in an area accessible only to qualified or authorized persons.

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**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

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: light yellow No data available

b) Odor

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c)	Odor Threshold	No data available
d)	рН	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	207 °C 405 °F at 1,013 hPa
g)	Flash point	69 °C (156 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
I)	Vapor density	No data available
m)	Density	No data available
	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	log Pow: 3.05
p)	Autoignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available
Other safety information		

# 9.2 Other safety information

No data available

# 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

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

# **10.5 Incompatible materials** Strong oxidizing agents, Strong reducing 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 LD50 Oral - 500.1 mg/kg 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

#### 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**

No data available

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#### **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** No data available
- **12.7 Other adverse effects** No data available

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: 1993 Class: NONE Packing group: III Proper shipping name: Combustible liquid, n.o.s. (p-Menthan-3-one) Reportable Quantity (RQ): Poison Inhalation Hazard: No

#### IMDG

Not dangerous goods

#### ΙΑΤΑ

Not dangerous goods Sigma-Aldrich - 95401

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#### **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.

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

Pennsylvania Right To Know Components p-Menthan-3-one	CAS-No. 10458-14-7	Revision Date
New Jersey Right To Know Components p-Menthan-3-one	CAS-No. 10458-14-7	Revision Date

# **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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