

# SAFETY DATA SHEET

Version 6.8 Revision Date 03/02/2024 Print Date 05/12/2024

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

#### 1.1 Product identifiers

Product name : S-Methyl methanethiosulfonate

Product Number : 208795 Brand : Aldrich CAS-No. : 2949-92-0

## 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 : +1 314 771-5765 Fax : +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

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

## 2.2 GHS Label elements, including precautionary statements

Aldrich - 208795



Page 1 of 8

Pictogram none
Signal Word Warning

Hazard Statements

H227 Combustible liquid.

**Precautionary Statements** 

P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No

smoking.

P280 Wear protective gloves/ eye protection/ face protection.

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

Stench.

# **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Component	Classification	Concentration
S-Methyl methanethiosulphonate		
	Flam. Liq. 4; H227	<= 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

#### 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: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

Aldrich - 208795

Page 2 of 8



## 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

Sulfur oxides

Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

### 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. Suppress (knock down) gases/vapors/mists with a water spray jet. 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. 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

Aldrich - 208795

Page 3 of 8



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

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. Hazardous components without workplace control parameters

## 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

## Skin protection

not required

## **Respiratory protection**

Not required; except in case of aerosol formation.

### **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: yellow

b) Odor Stench.

Aldrich - 208795

AilliPORe

c) Odor Threshold No data available No data available d) pH e) Melting No data available point/freezing point Initial boiling point 69 - 71 °C 156 - 160 °F at 0.5 hPa f) and boiling range g) Flash point 87 °C (189 °F) - closed cup h) Evaporation rate No data available Flammability (solid, No data available i) gas) Upper/lower No data available j) flammability or explosive limits

k) Vapor pressure No data available I) Vapor density No data available

m) Density 1.337 g/mL at 25 °C (77 °F)

Relative density No data available

n) Water solubility No data available

o) Partition coefficient: log Pow: -0.004

n-octanol/water
p) Autoignition

No data available

q) Decomposition temperature

temperature

No data available

r) Viscosity No data availables) Explosive properties No data availablet) Oxidizing properties No data available

### 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

Aldrich - 208795

Millipore Sigma

Page 5 of 8

#### 10.4 Conditions to avoid

Strong heating.

## 10.5 Incompatible materials

Strong bases

## 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

LD50 Intraperitoneal - Mouse - 9.110 mg/kg

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

# Serious eye damage/eye irritation

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

RTECS: PB2765000

Aldrich - 208795

. . . . . .

Page 6 of 8

Nausea, Headache, Vomiting, 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

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

## **IMDG**

Not dangerous goods

### **IATA**

UN number: 3334 Class: 9 Packing group: III

Aldrich - 208795

Page 7 of 8



## **SECTION 15: Regulatory information**

#### **SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### **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

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

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

# **Pennsylvania Right To Know Components**

S-Methyl methanethiosulphonate CAS-No. Revision Date

2949-92-0

#### **New Jersey Right To Know Components**

S-Methyl methanethiosulphonate CAS-No. Revision Date

2949-92-0

## **California Prop. 65 Components**

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

## **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.

Copyright 2020 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.

The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact mlsbranding@sial.com.

Version: 6.8 Revision Date: 03/02/2024 Print Date: 05/12/2024

Aldrich - 208795

....

Page 8 of 8