



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 9.0

Revision Date 05.06.2024

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GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

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

### 1.1 Product identifiers

Product name : Methyl salicylate

Product Number : 76631

Brand : Sigma-Aldrich

Index-No. : 607-749-00-8

REACH No. : A registration number is not available for this substance as the substance or its uses are exempted from registration or the annual tonnage does not require a registration.

CAS-No. : 119-36-8

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

Identified uses : Laboratory chemicals, Manufacture of substances

### 1.3

CHEMIKART

### 1.4 Emergency telephone

Emergency Phone # : 000 800 1007 141 (CHEMTREC)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

|                                       |                                            |
|---------------------------------------|--------------------------------------------|
| Acute toxicity, (Category 4)          | H302: Harmful if swallowed.                |
| Serious eye damage, (Category 1)      | H318: Causes serious eye damage.           |
| Skin sensitization, (Sub-category 1B) | H317: May cause an allergic skin reaction. |

|                                                  |                                                          |
|--------------------------------------------------|----------------------------------------------------------|
| Reproductive toxicity, (Category 2)              | H361d: Suspected of damaging the unborn child.           |
| Long-term (chronic) aquatic hazard, (Category 3) | H412: Harmful to aquatic life with long lasting effects. |

## 2.2 Label elements

### Labelling according Regulation (EC) No 1272/2008

#### Pictogram

|                                |                                                                                                                                  |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Signal Word                    | Danger                                                                                                                           |
| Hazard Statements              |                                                                                                                                  |
| H302                           | Harmful if swallowed.                                                                                                            |
| H317                           | May cause an allergic skin reaction.                                                                                             |
| H318                           | Causes serious eye damage.                                                                                                       |
| H361d                          | Suspected of damaging the unborn child.                                                                                          |
| H412                           | Harmful to aquatic life with long lasting effects.                                                                               |
| Precautionary Statements       |                                                                                                                                  |
| P273                           | Avoid release to the environment.                                                                                                |
| P280                           | Wear protective gloves/ protective clothing/ eye protection/ face protection.                                                    |
| P301 + P312                    | IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.                                                                   |
| P302 + P352                    | IF ON SKIN: Wash with plenty of water.                                                                                           |
| P305 + P351 + P338             | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308 + P313                    | IF exposed or concerned: Get medical advice/ attention.                                                                          |
| Supplemental Hazard Statements | none                                                                                                                             |

### Reduced Labeling (<= 125 ml)

#### Pictogram

|                          |                                                                                                                         |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Signal Word              | Danger                                                                                                                  |
| Hazard Statements        |                                                                                                                         |
| H317                     | May cause an allergic skin reaction.                                                                                    |
| H318                     | Causes serious eye damage.                                                                                              |
| H412                     | Harmful to aquatic life with long lasting effects.                                                                      |
| H361d                    | Suspected of damaging the unborn child.                                                                                 |
| Precautionary Statements |                                                                                                                         |
| P280                     | Wear protective gloves/ protective clothing/ eye protection/ face protection.                                           |
| P302 + P352              | IF ON SKIN: Wash with plenty of water.                                                                                  |
| P305 + P351 + P338       | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue |

P308 + P313 rinsing.  
IF exposed or concerned: Get medical advice/ attention.

Supplemental Hazard Statements none

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Synonyms : 2-Hydroxybenzoic acid methyl ester  
Oil of wintergreen  
Wintergreen oil  
Methyl 2-hydroxybenzoate

Formula : C<sub>8</sub>H<sub>8</sub>O<sub>3</sub>  
Molecular weight : 152,15 g/mol  
CAS-No. : 119-36-8  
EC-No. : 204-317-7  
Index-No. : 607-749-00-8

| Component                |              | Classification                                                                                                                                   | Concentration |
|--------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>methyl salicylate</b> |              |                                                                                                                                                  |               |
| CAS-No.                  | 119-36-8     | Acute Tox. 4; Eye Dam. 1;<br>Skin Sens. 1B; Repr. 2;<br>Aquatic Chronic 3; H302,<br>H318, H317, H361d, H412<br>Acute oral toxicity: 890<br>mg/kg | <= 100 %      |
| EC-No.                   | 204-317-7    |                                                                                                                                                  |               |
| Index-No.                | 607-749-00-8 |                                                                                                                                                  |               |

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. Call in physician.

**In case of skin contact**

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

**In case of eye contact**

After eye contact: rinse out with plenty of water. Immediately 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

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**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

Water Foam Carbon dioxide (CO<sub>2</sub>) 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**

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. 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.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

For precautions see section 2.2.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Tightly closed.

Light sensitive.

#### 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

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Ingredients with workplace control parameters

#### Derived No Effect Level (DNEL)

| Application Area        | Routes of exposure | Health effect    | Value      |
|-------------------------|--------------------|------------------|------------|
| Worker DNEL, acute      | inhalation         | Systemic effects | 285 mg/m3  |
| Worker DNEL, longterm   | inhalation         | Systemic effects | 17,5 mg/m3 |
| Worker DNEL, longterm   | dermal             | Systemic effects |            |
| Consumer DNEL, acute    | inhalation         | Systemic effects | 213 mg/m3  |
| Consumer DNEL, acute    | oral               | Systemic effects |            |
| Consumer DNEL, longterm | inhalation         | Systemic effects | 4 mg/m3    |
| Consumer DNEL, longterm | dermal             | Systemic effects |            |
| Consumer DNEL, longterm | oral               | Systemic effects |            |

|          |  |  |  |
|----------|--|--|--|
| longterm |  |  |  |
|----------|--|--|--|

### **Predicted No Effect Concentration (PNEC)**

| Compartment            | Value         |
|------------------------|---------------|
| Fresh water            | 0,0016 mg/l   |
| Fresh water sediment   | 0,0412 mg/kg  |
| Sea water              | 0,00016 mg/l  |
| Sea sediment           | 0,00412 mg/kg |
| Sewage treatment plant | 140 mg/l      |
| Soil                   | 0,35 mg/kg    |

## **8.2 Exposure controls**

### **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). Tightly fitting safety goggles

#### **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 EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

Full contact

Material: Chloroprene

Minimum layer thickness: 0,65 mm

Break through time: 480 min

Material tested: KCL 720 Camapren®

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 EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

Splash contact

Material: Latex gloves

Minimum layer thickness: 0,6 mm

Break through time: 120 min

Material tested: Lapren® (KCL 706 / Aldrich Z677558, Size M)

#### **Body Protection**

protective clothing

#### **Respiratory protection**

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

The entrepreneur 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.

**Control of environmental exposure**  
Do not let product enter drains.

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**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

|                                                 |                                                                                     |
|-------------------------------------------------|-------------------------------------------------------------------------------------|
| a) Physical state                               | clear, liquid                                                                       |
| b) Color                                        | light yellow                                                                        |
| c) Odor                                         | aromatic                                                                            |
| d) Melting point/freezing point                 | Melting point/range: -8 - -7 °C - lit.                                              |
| e) Initial boiling point and boiling range      | 222 °C - lit.                                                                       |
| f) Flammability (solid, gas)                    | No data available                                                                   |
| g) Upper/lower flammability or explosive limits | No data available                                                                   |
| h) Flash point                                  | 96 °C - closed cup                                                                  |
| i) Autoignition temperature                     | No data available                                                                   |
| j) Decomposition temperature                    | No data available                                                                   |
| k) pH                                           | No data available                                                                   |
| l) Viscosity                                    | Viscosity, kinematic: No data available<br>Viscosity, dynamic: 1,535 mPa.s at 25 °C |
| m) Water solubility                             | 0,625 g/l at 30 °C - soluble                                                        |
| n) Partition coefficient: n-octanol/water       | No data available                                                                   |
| o) Vapor pressure                               | 0,13 hPa at 20 °C                                                                   |
| p) Density                                      | 1,174 g/mL at 25 °C - lit.                                                          |
| Relative density                                | 1,179 at 25 °C                                                                      |
| q) Relative vapor density                       | 5,25 - (Air = 1.0)                                                                  |
| r) Particle characteristics                     | No data available                                                                   |
| s) Explosive properties                         | Not classified as explosive.                                                        |
| t) Oxidizing properties                         | none                                                                                |

## 9.2 Other safety information

Relative vapor density 5,25 - (Air = 1.0)

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## 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

Violent reactions possible with:  
Strong oxidizing agents

### 10.4 Conditions to avoid

Heat. Light.  
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 and female - 887 mg/kg  
(OECD Test Guideline 401)  
Acute toxicity estimate Oral - 890 mg/kg  
(Acute toxicity estimate according to Regulation (EC) No. 1272/2008)  
Inhalation: No data available  
LD50 Dermal - Rabbit - > 5.000 mg/kg  
Remarks: (IUCLID)

#### Skin corrosion/irritation

Skin - Rabbit  
Result: slight irritation - 4 h  
(OECD Test Guideline 404)

#### Serious eye damage/eye irritation

Eyes - Rabbit  
Result: Irreversible effects on the eye - 5 min  
(OECD Test Guideline 491)

#### Respiratory or skin sensitization

May cause an allergic skin reaction. (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: Chromosome aberration test in vitro  
Test system: Chinese hamster lung cells  
Metabolic activation: without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative

**Carcinogenicity**

No data available

**Reproductive toxicity**

Suspected of damaging the unborn child.

**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**

**Endocrine disrupting properties**

**Product:**

Assessment

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Repeated dose toxicity - Rat - male and female - Oral - 2 yr - NOAEL (No observed adverse effect level) - 50 mg/kg  
Remarks: (ECHA)

RTECS: VO4725000

Mild chronic salicylate intoxication is termed salicylism. Symptoms include: headache, dizziness, ringing in the ears, difficulty in hearing, dimness of vision, mental confusion, lassitude, drowsiness, sweating, thirst, hyperventilation, nausea, vomiting, and occasionally diarrhea. A more severe degree of salicylate intoxication is characterized by more pronounced CNS disturbances (including generalized convulsions and coma), skin eruptions, and marked alterations in acid-base balance.

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

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## SECTION 12: Ecological information

### 12.1 Toxicity

|                      |                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------|
| Toxicity to algae    | static test ErC50 - Desmodesmus subspicatus (green algae) - 27 mg/l - 72 h<br>(OECD Test Guideline 201) |
| Toxicity to bacteria | Remarks: (ECHA)<br>(methyl salicylate)                                                                  |

### 12.2 Persistence and degradability

|                  |                                                                                                       |
|------------------|-------------------------------------------------------------------------------------------------------|
| Biodegradability | aerobic - Exposure time 28 d<br>Result: 98,4 % - Readily biodegradable.<br>(OECD Test Guideline 301B) |
|------------------|-------------------------------------------------------------------------------------------------------|

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

No data available

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## SECTION 14: Transport information

### 14.1 UN number

ADR/RID: -

IMDG: -

IATA: -

**14.2 UN proper shipping name**

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

**14.3 Transport hazard class(es)**

ADR/RID: -

IMDG: -

IATA: -

**14.4 Packaging group**

ADR/RID: -

IMDG: -

IATA: -

**14.5 Environmental hazards**

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

**14.6 Special precautions for user**

No data available

**Further information**

Not classified as dangerous in the meaning of transport regulations.

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**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

**Authorisations and/or restrictions on use****Other regulations**

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

Take note of Dir 94/33/EC on the protection of young people at work.

**15.2 Chemical Safety Assessment**

A Chemical Safety Assessment has been carried out for this substance.

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**SECTION 16: Other information****Full text of H-Statements**

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H361d Suspected of damaging the unborn child.

H412 Harmful to aquatic life with long lasting effects.

**Relevant changes since previous version**

2. Hazards identification

## Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

## 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](http://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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# CHEMIKART