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**Safety Data Sheet**

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<b>Product Name</b>	<b>Methyl salicylate</b>
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**Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1. Product identification:**

**Product Description:** Methyl salicylate

**Synonyms:** Methyl hydroxybenzoate, 2-Hydroxybenzoic acid methyl ester, Oil of wintergreen, Methyl 2-hydroxybenzoate

**CAS-No:** 119-36-8

**EC-No.:** 204-317-7

**Molecular Formula:** C<sub>8</sub>H<sub>8</sub>O<sub>3</sub>

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

**1.2. Relevant identified uses of the substance or mixture and uses advised against:**

**Recommended Use:** Laboratory chemicals, Manufacture of substances

**1.3. Details of the supplier of the safety data sheet:**

- **Company** **Finar Limited**  
184-186/P, Chacharwadi Vasna,  
Sarkhej-Bavla Highway,  
Ta.: Sanand, Dist.: Ahmedabad-382110, Gujarat, India.  
Web: [www.finarchemicals.com](http://www.finarchemicals.com)
- **E-Mail Address** [safety.finar@aceto.com](mailto:safety.finar@aceto.com); [info.finar@aceto.com](mailto:info.finar@aceto.com)

**1.4. Emergency Telephone Number:**

- For Emergency contact on: +91 - 2717 - 616 717

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**SECTION 2: HAZARDS IDENTIFICATION**

**2.1. Classification of the substance or mixture:**

**Classification according to Regulation (EC) No 1272/2008**

Acute toxicity, Oral (Category 4), H302

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

**2.2. Label Elements:**

**Labeling according Regulation (EC) No 1272/2008**

**Pictogram**



**Signal word:**      **Warning**

Hazard statement(s)

H302      Harmful if swallowed.

Precautionary statement(s)

None

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.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1. Substances:** Methyl salicylate

**3.2. Mixtures:**

<b>Component</b>	<b>CAS-No</b>	<b>EC-No.</b>	<b>Weight %</b>
Methyl salicylate	119-36-8	204-317-7	>95

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**SECTION 4: FIRST AID MEASURES****4.1. Description of first aid measures:**

- **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

- **If inhaled**

Move to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Obtain medical attention. If not breathing, give artificial respiration.

- **If Contact with skin**

Wash off immediately with plenty of water for at least 15 minutes.

Get medical attention if symptoms occur.

- **In case of eye contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Get medical attention.

- **If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**4.2. Most important symptoms and effects, both acute and delayed:**

Irritant effects, Cough, Shortness of breath, Dizziness, agitation, spasms, inebriation, Nausea, Vomiting, cardiovascular disorders, CNS disorders, Coma

**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-** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**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.

Vapours are heavier than air and may spread along floors.

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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:**

Wear self-contained breathing apparatus for firefighting if necessary.

**5.4 Further Information:**

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:**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

For personal protection see section 8.

**6.2. Environmental precautions:**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Discharge into the environment must be avoided.

**6.3. Methods and material 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. Dispose of properly. Clean up affected area.

**6.4. Reference to other sections:**

For disposal see Sections 13.

**SECTION 7: HANDLING AND STORAGE**

**7.1. Precautions for safe handling:**

**Advice on safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. For precautions see section 2.2.

**7.2. Conditions for safe storage, including any incompatibilities:**

**Storage conditions**

Keep container tightly closed in a dry and well-ventilated place.

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**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

**8.2. Exposure Controls:**

- **Appropriate Engineering Controls:**

**Personal Protective Equipment:**

- **Eye & Face Protection-**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

- **Hand Protection -**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Full contact-

Material: butyl-rubber  
 Minimum layer thickness: 0.3 mm  
 Break through time: 480 min  
 Material tested: Butoject® (KCL 897 / Aldrich Z677647, Size M)

Splash contact-

Material: Nitrile rubber  
 Minimum layer thickness: 0.4 mm  
 Break through time: 30 min  
 Material tested: Camatril® (KCL 730 / Aldrich Z677442, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail [sales@kcl.de](mailto:sales@kcl.de),

test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374,

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contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

- **Body Protection-**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

- **Respiratory Protection-**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

- **Environmental Exposure Controls-**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Discharge into the environment must be avoided.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

### 9.1. Information on basic physical and chemical properties:

- **Appearance:** Colorless
- **Physical State:** Liquid
- **Odor:** Aromatic
- **pH:** No data available
- **Melting Point:** -8 to -7 °C
- **Auto Ignition Temperature:** 450 °C
- **Decomposition Temperature:** No data available
- **Vapor Pressure:** 0.118 mmHg at 25 °C
- **Vapor Density:** No data available
- **Relative Density:** 1.182 at 25 °C
- **Volatility:** No data available
- **Bulk Density:** No data available
- **Odor Threshold:** No data available

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- **Viscosity:** 1.535 mPa.s (25°C)
- **Water/Oil Dist. Co eff.:** No data available
- **Partition coefficient: n-octanol/water:** log Pow: 2.55
- **Boiling Point/Range:** 222 °C
- **Flash Point:** 110 °C
- **Specific Gravity:** 1.183 g/ml
- **Water Solubility:** Slightly soluble in water

### 9.2. Other information:

- **Molecular Formula:** C<sub>8</sub>H<sub>8</sub>O<sub>3</sub>
- **Molecular Weight:** 152.15 g/mol

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity:

No data available

### 10.2. Chemical stability:

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions:

No data available

### 10.4. Conditions to avoid:

Incompatible products. Excess heat.

### 10.5. Incompatible materials:

Strong oxidizing agents, Strong bases

### 10.6. Hazardous decomposition products:

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Organic acids.

In the event of fire: see section 5

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects:

#### Acute Oral Toxicity

LD50 Oral - Rat - male and female - 887 mg/kg

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(OECD Test Guideline 401)

**Acute Inhalation Toxicity**

No data available

**Acute Dermal Toxicity**

No data available

**Skin corrosion/irritation**

Skin - Rabbit

Result: Mild 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)

**Sensitisation**

Local lymph node assay (LLNA) - Mouse

Result: Does not cause skin sensitization.

(OECD Test Guideline 429)

**Germ cell mutagenicity**

reverse mutation assay

S. typhimurium

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.

**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



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**11.2 Further Information:**

Repeated dose toxicity - Rat - male and female - Oral - NOAEL (No observed adverse effect level) – 50 mg/kg

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.

## **SECTION 12: ECOLOGICAL INFORMATION**

**12.1. Toxicity:**

Toxicity to fish-

LC50 Danio rerio (zebra fish): > 100 mg/l; 96 h

(External MSDS)

Toxicity to daphnia and other aquatic invertebrates-

EC50 Daphnia magna (Water flea): 50 mg/l; 24 h

(IUCLID)

Toxicity to algae-

IC50 algae: > 100 mg/l; 72 h

(External MSDS)

NOEC Desmodesmus subspicatus (green algae): 6.25 mg/l; 72 h

OECD Test Guideline 201

Toxicity to bacteria-

EC50 Pseudomonas putida: 380 mg/l; 16 h

(IUCLID)

**12.2 Persistence and degradability:**

Biodegradability aerobic - Exposure time 28 d

Result: 98.4 % - Readily biodegradable.

(OECD Test Guideline 301B)

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Ratio BOD/COD<sub>57</sub> %  
(IUCLID)

**12.3 Bioaccumulate potential:**

Partition coefficient: n-octanol/water: log Pow: 2.55  
(experimental)  
(IUCLID) Bioaccumulation is not expected.

**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 Other adverse effects:**

Harmful to aquatic life.  
No data available

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods:**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

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**SECTION 14: Transport information**

	Land transport (ADR/RID)	Air transport (IATA)	Sea transport (IMDG)
<b>14.1 UN number</b>	-		
<b>14.2 Proper shipping name</b>	Not dangerous goods		
<b>14.3 Class</b>	-		
<b>14.4 Packing group</b>	-		
<b>14.5 Environmentally hazardous</b>	No		
<b>14.6 Special precautions for user</b>	-		
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>			
Not Revalent			

**SECTION 15: Regulatory information**

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

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

**National legislation**

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : Not applicable

**15.2 Chemical safety assessment:**

For this product a chemical safety assessment was not carried out.

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**SECTION 16: Other information**

Full text of H-Statements referred to under sections 2 and 3.

H302 Harmful if swallowed.

**References:** Not available

**Created:** 21/12/2021

**Disclaimer:**

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Finar Limited be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Finar Limited has been advised of the possibility of such damages.