



**Qualikems**

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Material Safety Data Sheet  
Methyl Salicylate

## Section 1 - Chemical Product and Company Identification

**MSDS Name:** Methyl Salicylate

**Synonyms:** 2-Hydroxybenzoic Acid Methyl Ester; Methoxybenzoic Acid; Sweet Birch Oil; Wintergreen Oil.

## Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
119-36-8	METHYL SALICYLATE	>99%	204-317-7

## Section 3 - Hazards Identification

### EMERGENCY OVERVIEW

Appearance: colorless to yellow-red liquid.

**Warning!** Causes eye and skin irritation. May be harmful if swallowed. May cause central nervous system effects. This substance has caused adverse reproductive and fetal effects in animals. May cause liver and kidney damage. May cause pulmonary edema. May cause cardiac disturbances.

**Target Organs:** Kidneys, heart, central nervous system, liver.

### Potential Health Effects

**Eye:** May cause eye irritation.

**Skin:** Causes moderate skin irritation. May be absorbed through the skin in harmful amounts.

**Ingestion:** May cause nausea and vomiting. May be harmful if swallowed. Systemic effects of exposure include initial stimulation and later central nervous system depression. Symptoms include convulsions, respiratory failure, cardiac collapse, and possible death.

**Inhalation:** Causes respiratory tract irritation. Irritation may lead to chemical pneumonitis and pulmonary edema. May cause effects similar to those described for ingestion. May cause lung damage.

**Chronic:** May cause liver and kidney damage. Repeated exposure may cause metabolic disturbances.

#### Section 4 - First Aid Measures

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin:** Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

**Ingestion:** Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid immediately. Call a poison control center.

**Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation.

**Notes to Physician:** Treat symptomatically and supportively.

#### Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors can travel to a source of ignition and flash back. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas. Containers may explode when heated.

**Extinguishing Media:** Water or foam may cause frothing. Use carbon dioxide or dry chemical. Cool containers with flooding quantities of water until well after fire is out.

**Flash Point:** 205e deg F ( 96.11 deg C)

**Autoignition Temperature:** 850 deg F ( 454.44 deg C)

**Explosion Limits, Lower:**Not available.

**Upper:** Not available.

**NFPA Rating:** (estimated) Health: 1; Flammability: 1; Instability: 0

#### Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Remove all sources of ignition. Absorb spill using an absorbent, non-combustible material such as earth, sand, or vermiculite. Do not use combustible materials such as sawdust. Provide ventilation.

## Section 7 - Handling and Storage

**Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Ground and bond containers when transferring material. Do not get on skin or in eyes. Do not ingest or inhale.

**Storage:** Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances.

## Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

### Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
METHYL SALICYLATE	none listed	none listed	none listed

### Personal Protective Equipment

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

## Section 9 - Physical and Chemical Properties

**Physical State:** Liquid

**Appearance:** colorless to yellow-red

**Odor:** wintergreen odor

**pH:** Not available.

**Vapor Pressure:** .1 mm Hg @ 20C

**Vapor Density:** 5.24 (air=1)

**Evaporation Rate:**Not available.  
**Viscosity:** Not available.  
**Boiling Point:** 433.9 deg F  
**Freezing/Melting Point:**16.5 deg F  
**Decomposition Temperature:**Not available.  
**Solubility:** Slightly soluble in water.  
**Specific Gravity/Density:**1.18 (water=1)  
**Molecular Formula:**C8H8O3  
**Molecular Weight:**152.0542

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable at room temperature in closed containers under normal storage and handling conditions.  
**Conditions to Avoid:** Incompatible materials, ignition sources, excess heat.  
**Incompatibilities with Other Materials:** Strong oxidizing agents, strong bases.  
**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, salicyclic acid.  
**Hazardous Polymerization:** Has not been reported.

## Section 11 - Toxicological Information

**RTECS#:**

**CAS#** 119-36-8: VO4725000

**LD50/LC50:**

CAS# 119-36-8:

- Draize test, rabbit, eye: 500 mg/24H Mild;
- Draize test, rabbit, skin: 500 mg/24H Moderate;
- Oral, mouse: LD50 = 1110 mg/kg;
- Oral, rabbit: LD50 = 1300 mg/kg;
- Oral, rat: LD50 = 887 mg/kg;
- Oral, rat: LD50 = 1220 mg/kg;

**Carcinogenicity:**

CAS# 119-36-8: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Epidemiology:** No information available.

**Teratogenicity:** Effects on Newborn: Liver birth index and viability index, oral-rat TDLo=36450mg/kg. Specific Developmental Abnormalities: Central nervous system, Craniofacial, and Musculoskeletal, subcutaneous- rat TDLo=500mg/kg.

**Reproductive Effects:** No information available.

**Mutagenicity:** No information available.

**Neurotoxicity:** No information available.

**Other Studies:**

## Section 12 - Ecological Information

**Ecotoxicity:** No data available. No information available.

**Environmental:** No information reported.

**Physical:** No information available.

**Other:** None.

### Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P-Series:** None listed.

**RCRA U-Series:** None listed.

### Section 14 - Transport Information

	IATA	
<b>Shipping Name:</b>	Not regulated as a hazardous material	
<b>Hazard Class:</b>		
<b>UN Number:</b>		
<b>Packing Group:</b>		

### Section 15 - Regulatory Information

**Hazard Symbols:**

XN

**Risk Phrases:**

R 22 Harmful if swallowed.

R 36/38 Irritating to eyes and skin.

**Safety Phrases:**

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

### Section 16 - Additional Information

**MSDS Creation Date:** 12/12/1997

**Revision #6 Date:** 08/29/2004

**Revision #7 Date:** 08/28/2009

**Revision #8 Date:** 08/27/2014

**Revision #9 Date:** 08/26/2019

**Revision #10Date:** 08/25/2024

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