SAFETY DATA SHEET

Preparation Date: 12/21/2015 **Revision date** 10/31/2018 **Revision Number:** G2

1. IDENTIFICATION

Product identifier

Product code: ME170
Product Name: METHYL SALICYLATE, NF

Other means of identification

Synonyms: 2-Hydroxybenzoic acid methyl ester; Benzoic acid, 2-hydroxy-, methyl ester; o-Hydroxybenzoic acid, methyl ester; 2-Carbomethoxyphenol; 2-(Methoxycarbonyl)phenol; Synthetic Wintergree Oil; Wintergreen Oil, synthetic
CAS #: 119-36-8
RTECS # VO4725000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: No information available.
Uses advised against No information available

Supplier:
Spectrum Chemical Mfg. Corp
14422 South San Pedro St.
Gardena, CA 90248
(310) 516-8000

Order Online At: https://www.spectrumchemical.com
Emergency telephone number Chemtrec 1-800-424-9300
Contact Person: Tom Tyner (USA - West Coast)
Contact Person: Ibad Tirmiz (USA - East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A

Label elements

Warning

Hazard statements
Harmful if swallowed
Causes skin irritation
Causes serious eye irritation

Hazards not otherwise classified (HNOC)
Not Applicable

Other hazards
Not available

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Wear protective gloves
Wear eye/face protection

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
IF ON SKIN: Wash with plenty of water
If skin irritation occurs: Get medical attention
Take off contaminated clothing and wash it before reuse
IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell
Rinse mouth

Precautionary Statements - Disposal
Dispose of contents and container to an approved waste disposal plant in accordance with local, regional, national and international regulations as applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight-%
Methyl Salicylate	119-36-8	100

4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention. If skin irritation persists, call a physician.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms Causes serious eye irritation
Causes skin irritation
Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea
Central nervous system effects

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders
First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Carbon dioxide (CO2). Dry chemical. Water spray mist or foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous combustion products Carbon Monoxide, Carbon Dioxide.

Specific hazards May be combustible at high temperatures.

Special Protective Actions for Firefighters

Specific Methods: No information available

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protective equipment. Remove all sources of ignition.

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite, dry sand or earth). In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.

Methods for cleaning up Absorb spill with inert material (e.g. vermiculite, dry sand or earth). Use appropriate tools to put the spilled material in a suitable chemical waste disposal container.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:
Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

Safe Handling Advice
Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not ingest. Do not breathe vapors or spray mist. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:
Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Materials:
Alkalis
Oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Methyl Salicylate	119-36-8	None	None	None	None

Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Methyl Salicylate	119-36-8	None	None	None	None

Australia and Mexico

Component	CAS No	Australia	Mexico
Methyl Salicylate	119-36-8	None	None

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Goggles

Skin and body protection: Chemical resistant apron
Gloves
Long sleeved clothing

Respiratory protection: Vapor respirator. Be sure to use an approved/certified respirator or equivalent.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:
Liquid

Appearance:
Oily.

Color:
Colorless. Reddish. Yellow.

Odor:
Wintergreen.

Taste
Wintergreen.

Formula
C8H8O3

Molecular/Formula weight (g/mole):
152.15

Flammability (solid, gas)
no data available

Flashpoint (°C/°F):
96°C/204.8°F

Flash Point Tested according to:
Closed cup

Autoignition Temperature (°C/°F):
454°C/849.2°F

Lower Explosion Limit (%):
No information available

Upper Explosion Limit (%):
No information available

Melting point/range(°C/°F):
-8.6°C/16.5°F

Decomposition temperature(°C/°F):
No information available

Boiling point/range(°C/°F):
220°-224°C/428°-435.2°F

Bulk density:
No information available

Density (g/cm3):
No information available

Specific gravity:
1.18-1.185 @ 25°C

pH
No information available

Vapor pressure @ 20°C (kPa):
<0.1

Evaporation rate:
No information available

Vapor density:
5.25

VOC content (g/L):
No information available

Odor threshold (ppm):
No information available

Partition coefficient (n-octanol/water):
2.5

Viscosity:
No information available

Miscibility:
Miscible with alcohol
Miscible with glacial Acetic Acid

Solubility:
Solubility in Water: 0.74%
Soluble in Chloroform
Soluble in diethyl ether
Soluble in most organic solvents
Very slightly soluble in cold water

10. STABILITY AND REACTIVITY

Reactivity
Reactive with alkalis
Reactive with oxidizing agents

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Ignition sources. Incompatible materials.

Incompatible Materials: Alkalis
Oxidizing agents

Hazardous decomposition products: Carbon oxides.

Other Information
Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:
Eyes. Skin. Ingestion.

Acute Toxicity

Component Information

Methyl Salicylate	
CAS No	119-36-8

LD50/oral/rat = 887 mg/kg Oral LD50 Rat
LD50/oral/mouse = 1110 mg/kg Oral LD50 Mouse
LD50/dermal/rabbit = >5000 mg/kg Dermal LD50Rabbit
LD50/dermal/rat = 2500 mg/kg
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50information = No information available

Product Information

LD50/oral/rat =
Value - Acute Tox = 887 mg/kg

LD50/oral/mouse =
Value - Acute Tox Oral = 1110 mg/kg

LD50/dermal/rabbit
Value - Acute Tox = > 5000 mg/kg

LD50/dermal/rat
VALUE - Acute Tox Dermal = 2500 mg/kg

LC50/inhalation/rat
VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse
VALUE-Vapor = No information available
VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: Causes moderate to severe skin irritation. It can be absorbed through skin.

Eye Contact: Causes serious eye irritation.

Inhalation May cause respiratory tract irritation.

Ingestion Harmful if swallowed. May cause gastrointestinal tract irritation with nausea, vomiting, diarrhea, gastric ulceration, heartburn, dyspepsia, hyperpyrexia, sweating, thirst. May affect behavior/Central Nervous system (headache, excitation, dizziness, lassitude, drowsiness, mental confusion, convulsions, coma), respiration (hyperventilation, hyperpnea, dyspnea, pulmonary edema), ears (ringing in the ears), eyes (dimness of vision), blood (hemorrhage).

Aspiration hazard No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity Ingestion: Prolonged or repeated ingestion may cause weight loss, and also affect the blood (changes in white and red blood cell count), urinary system (kidneys), heart, liver, musculoskeletal system as well as other symptoms similar to acute ingestion.Inhalation: Prolonged or repeated inhalation may affect the blood (changes in red and white cell blood count).

Sensitization: No information available.

Mutagenic Effects: Mutations in microorganisms
Experiments with bacteria and/or yeast have shown mutagenic effects

Carcinogenic effects: Not considered carcinogenic.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Methyl Salicylate	119-36-8	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Reproductive Effects: No information available
Developmental Effects: May cause adverse developmental effects based on animal data
No information on developmental toxicity effects on humans was found
Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure No information available.
STOT - repeated exposure No information available.

Target Organs: No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: Aquatic environment.

Methyl Salicylate - 119-36-8
Crustacea 50 mg/L EC50 Daphnia magna 24 h

Persistence and degradability: 1. TERRESTRIAL FATE: If released on soil, methyl salicylate would readily leach. It would also be expected to partially volatilize from dry soil and photolyze on the soil surface. Based on the results of sceening tests, it would be expected to readily biodregrade. Chemical hydrolysis may be important in alkaline soil. (SRC) [Peer Reviewed]
2. AQUATIC FATE: Methyl salicylate is readily biodegradable in screening tests and may be expected to biodegrade in surface waters. Methyl salicylate is expected to hydrolyze in water, the hydrolysis rate increasing with pH. At pH 7.5, its hydrolysis half-life is estimated to be 14.1 days (1,2,SRC). Methyl salicylate will react with singlet oxygen in natural surface waters resulting in a half-life of about 52 hr(3). Methyl salicylate absorbs UV radiation >290 nm and therefore may undergo direct photolysis under environmental conditions. Based on an estimated Henry's Law constant of 9.3X10-7 atm-cu-m/mol(4,5,SRC), a volatilization half-life of 49 days would be expected in a model river (SRC). [Peer Reviewed] [(1) Magid LJ, Larsen JW; J Org Chem 39: 3142-4 (1974) (2) Senent S et al; An Quim; 69:13-23 (1973) (3) Scully FE Jr, Hoigne J; Chemosphere 16: 681-94 (1987) (4) Daubert TE, Danner RP; Data Compilation Tables of Properties of Pure Compounds NY, NY: Amer Inst for Phys Prop Data (1989) (5) Riddick JA et al; Organic Solvents 4th ed; NY, NY: Wiley (1986)]
3. ATMOSPHERIC FATE: Methyl salicylate reacts with photochemically-produced hydroxyl radicals in the atmosphere resulting in an estimated half-life of 1.4 days (1,SRC). It is fairly soluble in water, 7400 mg/L(2) and may be washed out by rain. [Peer Reviewed] [(1) Meylan WM, Howard PH; Chemosphere 26: 2293-9 (1993) (2) Riddick JA et al; Organic Solvents 4th ed; NY, NY: Wiley (1986)]
Biodegradation: Methyl salicylate in a five day BOD test exhibited a value of 55-57% of the theoretical BOD(1,2). Another 5-day BOD determination yielded 65% of the theoretical BOD(3). Methyl salicylate was completely degraded by a microbial mixture when incubated for 7 days at 30 deg C(4). Significant biodegradation of methyl salicylate in the environment would be expected from this result; however no data concerning biodegradation in natural waters or soil could be located. [Peer Reviewed] [(1) Maggio P et al; Ind Carta 14:105-11 (1976) (2) Maggio P et al; Tinctoria 73:15-20 (1976) (3) Crespi-Rosell M, Cegarra-Sanchez J; Bol Inst Invest Text Coop Ind 77: 41-57 (1980) (4) Goulding C et al; J Appl Bact 65: 1-5 (1988)]
(The above information was obtained from the Hazardous Substance Bank)

Bioaccumulative potential: No information available.

Mobility in soil No information available
Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:
Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
Empty containers should be taken for local recycling, recovery or waste disposal

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Methyl Salicylate	119-36-8	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class	No information available
Subsidiary Class	No information available
Packing group:	No information available
Emergency Response Guide Number	No information available
Marine Pollutant	No data available
DOT RQ (lbs):	No information available
Special Provisions	No Information available
Symbol(s):	No information available
Description:	No information available

TDG (Canada)

UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available
Marine Pollutant	No Information available
Description:	No information available

ADR

UN Number	Not regulated
Proper Shipping Name:	No information available
Transport hazard class(es)	No information available
Packing group	No information available
Subsidiary Risk:	No information available

IMDG

UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available
Marine Pollutant	No information available

RID

UN Number	Not Regulated
Proper Shipping Name:	No information available
Transport hazard class(es)	No information available
Subsidiary Risk:	No information available
Packing group	No information available

ICAO (air)

UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available

IATA

UN Number	Not Regulated
Proper Shipping Name:	No information available
Transport hazard class(es)	No information available
Subsidiary Risk:	No information available
Packing group	No information available
Precautionary Statements - Response	No information available
Special Provisions	No information available

15. REGULATORY INFORMATION

International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
Methyl Salicylate	119-36-8	PresentACTIVE	Present KE-20378	Present	Present (3)-1585	Present	Present	Present 204-317-7

U.S. Regulations

Methyl Salicylate

Pennsylvania RTK: Present

FDA - 21 CFR - Total Food Additives 175.105, 177.1010

- List Sourced from EAFUS

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

WARNING: This product contains a chemical known to the State of California to cause cancer. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm (See table below)

Component	CAS No	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Methyl Salicylate	119-36-8	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Component	CAS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Methyl Salicylate	119-36-8	None	None	None	None	None

U.S. TSCA

Component	CAS No	TSCA Section 5(a)2 - Chemicals	TSCA 8(d) -Health and Safety

		With Significant New Use Rules (SNURS)	Reporting
Methyl Salicylate	119-36-8	Not Applicable	Not Applicable

Canada

WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information: .

Component	WHMIS 2015 Hazard Classification
Methyl Salicylate 119-36-8 (100)	Acute toxicity - Oral - Category 4: H302 Harmful if swallowed.; Reproductive Toxicity - Category 1: H360 May damage fertility or the unborn child.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

DSL/NDSL

Component	CAS No	Canada (DSL)	Canada (NDSL)
Methyl Salicylate	119-36-8	Present	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
Methyl Salicylate	119-36-8	Not listed
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Methyl Salicylate	119-36-8	Not listed

EU Classification

EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Methyl Salicylate	119-36-8	

EU - CLP (1272/2008)

R-phrase(s)
R22 - Harmful if swallowed
R36/38 - Irritating to eyes and skin

S -phrase(s)
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S37 - Wear suitable gloves
S46 - If swallowed, seek medical advice immediately and show this container or label

Component	CAS No	**Classification**	**Concentration Limits:**	**Safety Phrases**
Methyl Salicylate	119-36-8		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:
Xi - Irritant
Xn - Harmful

16. OTHER INFORMATION

Preparation Date: 12/21/2015
Revision date 10/31/2018
Prepared by: Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet